MIHA Data Snapshots, California Counties (San Mateo - Yolo)

Health Indicators from the 2016-2018
Maternal and Infant Health Assessment (MIHA) Survey

CDPH California Department of PublicHealth | Maternal, Child & Adolescent Health mcah

2022

Acknowledgements

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MIHA is led by the Maternal, Child and Adolescent Health Division in the California Department of Public Health (CDPH) in collaboration with: CDPH Women, Infants and Children (WIC) Division and the Center for Health Equity at the University of California, San Francisco (UCSF). Paula Braveman, M.D., M.P.H., is the principal investigator of the MIHA survey and Kristen Marchi, M.P.H., is the MIHA project director.

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We offer our sincerest thanks to the women who participated in MIHA in order to help improve the health of mothers and infants in California.

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Table of Contents

Introduction and Methods

Map of MIHA Counties

Map of MIHA Regions

County Data Snapshots

- San Mateo
- Santa Barbara
- Santa Clara
- Santa Cruz
- Shasta
- Solano
- Sonoma
- Stanislaus
- Tulare
- Ventura
- Yolo

Technical Notes

- Indicator Definitions
- Data Annotation and Suppression Criteria
- Weighting Methods

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Introduction

In 2016-2018, more than 450,000 women gave birth in California each year. Although most pregnancies are healthy, many women and infants face challenges in reaching optimal health. To address these challenges, the California Department of Public Health (CDPH) works with statewide and local partners to develop systems that protect and improve the health of California's reproductive-aged and pregnant women, infants, children, adolescents and their families. One such effort is the Maternal and Infant Health Assessment (MIHA) survey. MIHA is a population-based survey of women with a recent live birth that has been conducted annually since 1999. The survey provides information about maternal experiences and behaviors before, during and shortly after pregnancy.

Using MIHA data from 2016-2018, this report presents key indicators of maternal and infant health in the top 35 birthing counties in California, which represent 98% of the state's births. County results are shown for subgroups of birthing individuals based on maternal age, education, geographical area of the state, income, neighborhood poverty, prenatal health insurance, race/ethnicity and total live births.

Statewide data and data for the nine MIHA Regions are available in the companion reports, "MIHA Data Snapshots, California" and "MIHA Data Snapshots, California Regions."

Information in this report can be used by state and local agencies and stakeholder groups interested in the health of families in California.

Methods

MIHA is a stratified random sample of English- or Spanish-speaking women aged 15 years or older who had a live birth and who resided in California at the time of birth. MIHA data are weighted to represent all women with a live birth in California, excluding women who were nonresidents, were younger than 15 years old at delivery, had a multiple birth greater than triplets or had a missing address on the birth certificate. During 2016-2018, MIHA data were collected by mail, telephone and web. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193 and an overall response rate of approximately 64%.

Data for this report were analyzed to account for MIHA's complex survey design using SAS software. The percentage and estimated number of women in the population with a given health indicator or characteristic are best estimates of the actual prevalence in the population. The 95% confidence interval (95% CI) means that there is a 95% chance that the actual prevalence in the population is contained within the interval range. The relative standard error (RSE) is used to measure the statistical reliability of survey estimates. When noted with an asterisk (*), estimates should be interpreted with caution due to low statistical reliability. Prevalence estimates are suppressed when the RSE is greater than 50% or could not be calculated, sample numerator is less than five, or the weighted population denominator is less than 100. Suppression is noted with a double dash (--). Definitions for each indicator, a description of the percentage annotation and suppression criteria and weighting methods used in 2016-2018 are in the Technical Notes.

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MIHA County-Level Data Availability, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

Top 35 Birthing Counties

Percentage of California resident women with a live birth in 2016-2018

Los Angeles 24.7%	Kern 2.8%	Santa Barbara 1.2%	Kings 0.5%
San Diego 8.8%	Contra Costa 2.6%	Solano 1.1%	Yolo 0.5%
Orange 7.9%	San Joaquin 2.1%	Sonoma 1.0%	Marin 0.5%
San Bernardino ... 6.3%	Ventura 2.0%	Merced 0.9%	Madera 0.5%
Riverside 6.3%	San Francisco 1.9%	Placer 0.8%	Shasta 0.4%
Santa Clara 4.7%	San Mateo 1.8%	Imperial 0.6%	El Dorado 0.3%
Sacramento 4.1%	Stanislaus 1.6%	Santa Cruz 0.6%	Humboldt 0.3%
Alameda 4.0%	Tulare 1.5%	San Luis Obispo ... 0.5%	Napa 0.3%
Fresno 3.1%	Monterey 1.3%	Butte 0.5%	

Data Source: 2016-2017 Birth Statistical Master File and 2018 California Comprehensive Master Birth File.

Prepared by: Maternal, Child and Adolescent Health Division, Center for Family Health, California Department of Public Health.

MIHA Regions of California, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

County Data Snapshots

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MIHA Data Snapshot, San Mateo County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			8,500	1.8 *	0.7	2.9	100	63.2	58.8	67.7	5,400	35.0	30.6	39.4	3,000
Health Status before Pregnancy																
In good to excellent health	94.2	91.4	97.0	8,000	--				93.8 *	89.8	97.8	5,000	94.7	91.8	97.6	2,800
Chronic conditions																
Diabetes	2.3 *	0.7	3.8	200	--				2.5 *	0.3	4.7	100	2.0 *	0.3	3.7	<100
Hypertension	2.6	1.1	4.0	200	--				3.0 *	0.9	5.0	200	--			
Asthma	9.8	6.6	12.9	800	--				12.0	7.5	16.5	600	6.2	2.7	9.8	200
Nutrition and Weight																
Daily folic acid use, month before pregnancy	46.0	41.2	50.8	3,900	--				43.1	36.8	49.4	2,300	52.1	44.7	59.5	1,500
Overweight before pregnancy†	24.4	20.2	28.7	2,000	--				26.4	20.7	32.2	1,400	21.4	15.2	27.5	600
Obese before pregnancy†	16.0	12.4	19.7	1,300	--				16.0	11.1	20.9	800	16.0	10.7	21.3	500
Inadequate weight gain during pregnancy†	19.8	15.9	23.7	1,500	--				18.2	13.2	23.3	900	22.9	16.6	29.2	600
Excessive weight gain during pregnancy†	40.7	35.9	45.5	3,200	--				41.8	35.5	48.2	2,000	37.9	30.6	45.3	1,100
Food insecurity during pregnancy	8.5	5.7	11.4	700	--				11.1	6.9	15.3	600	2.8 *	0.7	4.9	<100
Nutrition Program Participation																
Participated in WIC during pregnancy	23.4	19.2	27.5	1,900	63.9 *	32.5	95.3	<100	27.4	21.7	33.1	1,400	13.8	8.7	18.9	400
Received CalFresh (food stamps) during pregnancy	8.3	5.7	10.9	700	--				10.2	6.5	13.9	500	4.2 *	1.2	7.2	100
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3	3.7	200	--				--				--			
Prenatal depressive symptoms†	13.1	9.3	16.8	1,100	--				15.3	9.9	20.7	800	8.3	4.4	12.2	200
Postpartum depressive symptoms†	9.7	7.1	12.4	800	--				8.4	5.1	11.6	400	12.1	7.5	16.7	400
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	1.5 *	0.5	2.4	100	--				2.3 *	0.8	3.8	100	--			
Moved due to problems paying rent or mortgage	4.0	1.9	6.1	300	--				5.8	2.6	8.9	300	--			
Woman or partner lost job	8.0	5.2	10.7	700	--				10.0	6.0	14.0	500	3.9 *	1.0	6.8	100
Woman or partner had pay or hours cut back	8.4	5.2	11.5	700	--				10.5	5.9	15.1	500	4.5 *	1.4	7.7	100
Became separated or divorced	3.2	1.5	4.8	300	--				3.2 *	1.0	5.4	200	--			
Had no practical or emotional support	4.5	2.6	6.4	400	--				4.9	2.4	7.4	300	3.8 *	1.0	6.7	100
Substance Use																
Any smoking, 3 months before pregnancy	3.1	1.6	4.5	300	--				2.7 *	1.1	4.3	100	3.5 *	0.6	6.4	100
Any smoking, 3rd trimester	0.8 *	0.1	1.5	<100	--				--				--			
Any smoking, postpartum	0.8 *	0.1	1.5	<100	--				--				--			
Any binge drinking, 3 months before pregnancy	14.0	10.6	17.3	1,200	--				16.1	11.4	20.8	900	10.5	6.3	14.7	300
Any alcohol use, 3rd trimester	11.5	8.7	14.4	1,000	--				9.4	6.1	12.6	500	15.9	10.4	21.4	500
Any cannabis use during pregnancy	2.0 *	0.7	3.2	200	--				1.9 *	0.2	3.6	100	--			
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	19.9	15.7	24.0	1,700	51.3 *	18.3	84.3	<100	24.1	18.3	29.9	1,300	10.8	6.2	15.4	300
Unsure of pregnancy intentions	8.4	5.9	10.9	700	--				5.8	3.3	8.4	300	11.7	6.9	16.5	300
Postpartum birth control use	77.8	73.6	81.9	6,400	--				78.6	73.0	84.1	4,100	75.2	68.9	81.4	2,200
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	88.9	85.5	92.3	7,500	--				87.4	82.7	92.2	4,700	91.6	87.6	95.6	2,700
Infant always or often shared bed	29.9	25.3	34.5	2,500	35.2 *	7.4	63.0	<100	30.8	24.6	37.0	1,600	28.0	21.3	34.7	800
Intended to breastfeed, before birth	95.3	93.1	97.4	8,000	--				94.9	92.0	97.8	5,100	96.0 *	93.0	98.9	2,800
Intended to breastfeed exclusively, before birth	68.8	64.3	73.4	5,800	48.1 *	16.3	80.0	<100	69.8	63.9	75.8	3,700	68.1	61.0	75.2	2,000
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	94.3	92.0	96.6	7,900	--				92.5	89.2	95.9	4,900	--			
Exclusive breastfeeding, 1 month after delivery	47.1	42.2	52.0	3,900	--				49.2	42.7	55.7	2,600	41.9	34.4	49.4	1,200
Any breastfeeding, 3 months after delivery	81.7	77.4	86.0	5,500	50.6 *	12.6	88.6	<100	80.4	74.7	86.0	3,600	86.0	80.0	92.0	1,900
Exclusive breastfeeding, 3 months after delivery	36.1	30.8	41.4	2,400	--				37.2	30.3	44.1	1,700	34.0	25.8	42.2	700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	79.9	75.8	84.1	6,800	--				75.5	69.7	81.3	4,000	87.2	82.3	92.1	2,600
Initiated prenatal care in 1st trimester	95.3	93.2	97.5	7,900	--				94.6	91.4	97.7	4,900	97.1 *	95.0	99.3	2,800
Received dental care during pregnancy	56.8	52.0	61.7	4,800	46.0 *	14.9	77.0	<100	54.5	48.1	61.0	2,900	61.5	54.2	68.7	1,800
Received a Tdap vaccine during pregnancy	75.3	71.3	79.4	6,300	54.2 *	22.9	85.5	<100	74.4	69.0	79.8	3,900	78.1	72.0	84.1	2,300
Received a flu shot during pregnancy	81.2	77.2	85.3	6,800	--				81.5	76.1	86.8	4,300	79.8	73.5	86.1	2,400
Had a postpartum medical visit	92.9	90.1	95.8	7,800	--				92.1	88.0	96.1	4,900	95.2 *	91.9	98.5	2,800
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	17.4	13.5	21.2	1,500	--				19.5	14.1	24.9	1,000	9.9	5.4	14.4	300
Uninsured	6.0	3.7	8.3	500	--				8.4	5.0	11.8	400	1.9 *	0.2	3.7	<100
Private	74.0	69.6	78.4	6,300	--				69.0	63.0	75.1	3,700	86.2	81.1	91.3	2,600
Prenatal insurance																
Medi-Cal	24.6	20.3	28.8	2,100	--				29.6	23.7	35.6	1,600	12.1	7.5	16.8	400
Uninsured	--				--				--				--			
Private	73.2	68.8	77.6	6,100	--				68.0	61.9	74.1	3,600	85.8	80.7	90.9	2,500
Had any gaps in insurance during pregnancy	4.8	2.6	6.9	400	--				5.1	2.2	8.0	300	4.0 *	1.0	6.9	100
Maternal postpartum insurance																
Medi-Cal	22.4	18.2	26.7	1,900	--				27.0	21.0	33.0	1,400	10.9	6.4	15.4	300
Uninsured	4.3	2.6	6.0	400	--				5.7	3.2	8.2	300	2.2 *	0.4	3.9	<100
Private	71.7	67.2	76.2	6,000	--				65.3	59.1	71.5	3,500	86.4	81.5	91.2	2,500
Infant health insurance																
Medi-Cal	27.7	23.3	32.2	2,300	--				33.4	27.2	39.6	1,800	14.5	9.4	19.5	400
Uninsured	--				--				--				--			
Private	70.6	66.1	75.2	5,900	--				64.4	58.2	70.7	3,400	84.8	79.6	89.9	2,500
Maternal Demographics																
First live birth	45.9	41.1	50.7	3,900	--				51.6	45.2	58.0	2,800	32.8	26.1	39.6	1,000
Less than high school education (or GED)	8.3	5.9	10.8	700	58.0 *	27.9	88.0	<100	7.5	4.6	10.4	400	7.4	3.6	11.2	200
Unmarried	20.8	17.0	24.6	1,800	--				23.9	18.7	29.2	1,300	12.0	7.7	16.3	400
Race/Ethnicity																
White	32.9	28.4	37.5	2,600	--				29.0	23.4	34.7	1,500	41.6	34.0	49.1	1,200
Hispanic	29.7	25.1	34.2	2,300	--				32.8	26.6	39.0	1,600	20.9	14.7	27.0	600
Asian/Pacific Islander	35.9	31.0	40.9	2,800	--				36.7	30.0	43.3	1,800	36.3	29.1	43.5	1,000
Black	1.5 *	0.3	2.7	100	--				--				--			
Born outside the U.S.	49.0	44.1	53.8	4,200	--				49.6	43.2	56.0	2,700	48.7	41.4	56.1	1,400
Speaks non-English language at home	38.8	34.0	43.6	3,300	--				42.9	36.5	49.3	2,300	32.7	25.7	39.7	1,000
Lives in a high poverty neighborhood†	--				--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, San Mateo County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				<High School				High School Graduate or GED				Some College				College Graduate			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			8,500	8.3	5.9	10.8	700	10.1	6.8	13.3	800	18.2	14.2	22.2	1,500	63.4	58.6	68.2	5,300
Health Status before Pregnancy																				
In good to excellent health	94.2	91.4	97.0	8,000	89.8 *	82.4	97.2	600	--				90.5 *	82.9	98.0	1,400	95.3 *	91.6	99.0	5,100
Chronic conditions																				
Diabetes	2.3 *	0.7	3.8	200	--				--				--				1.4 *	0.4	2.5	<100
Hypertension	2.6	1.1	4.0	200	--				--				--				1.9 *	0.4	3.3	<100
Asthma	9.8	6.6	12.9	800	10.5 *	0.8	20.2	<100	--				16.2 *	6.6	25.7	200	9.3	5.5	13.2	500
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	46.0	41.2	50.8	3,900	18.8 *	7.3	30.3	100	31.2	15.1	47.2	300	48.8	36.5	61.0	700	51.5	45.6	57.3	2,700
Overweight before pregnancy†	24.4	20.2	28.7	2,000	40.0	24.7	55.2	300	39.4	23.4	55.5	300	31.0	19.4	42.5	500	18.5	13.6	23.3	1,000
Obese before pregnancy†	16.0	12.4	19.7	1,300	33.6	18.8	48.3	200	21.0 *	6.5	35.6	200	27.0	15.5	38.6	400	9.3	6.1	12.4	500
Inadequate weight gain during pregnancy†	19.8	15.9	23.7	1,500	26.1	13.0	39.2	200	24.5 *	8.5	40.5	200	9.3 *	2.5	16.0	100	21.4	16.5	26.2	1,000
Excessive weight gain during pregnancy†	40.7	35.9	45.5	3,200	42.6	27.0	58.2	300	41.8	24.6	59.0	300	50.6	37.7	63.4	700	37.3	31.6	42.9	1,800
Food insecurity during pregnancy	8.5	5.7	11.4	700	29.5	15.6	43.5	200	22.3 *	7.5	37.2	200	18.7	8.9	28.5	300	--			
Nutrition Program Participation																				
Participated in WIC during pregnancy	23.4	19.2	27.5	1,900	78.1 *	64.0	92.1	500	72.6 *	55.4	89.7	600	33.4	21.7	45.1	500	4.9	2.4	7.4	300
Received CalFresh (food stamps) during pregnancy	8.3	5.7	10.9	700	28.4	15.0	41.9	200	26.3	12.3	40.4	200	13.8 *	5.1	22.5	200	1.4 *	0.1	2.6	<100
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3	3.7	200	--				--				--				--			
Prenatal depressive symptoms†	13.1	9.3	16.8	1,100	13.9 *	4.3	23.6	<100	10.7 *	1.6	19.7	<100	12.7 *	4.4	21.0	200	13.7	8.6	18.8	700
Postpartum depressive symptoms†	9.7	7.1	12.4	800	8.3 *	0.6	16.1	<100	--				13.9 *	5.6	22.2	200	9.2	6.1	12.3	500
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	1.5 *	0.5	2.4	100	--				--				--				--			
Moved due to problems paying rent or mortgage	4.0	1.9	6.1	300	--				13.2 *	1.1	25.4	100	7.0 *	0.4	13.6	100	--			
Woman or partner lost job	8.0	5.2	10.7	700	10.1 *	3.1	17.0	<100	--				14.2 *	5.5	22.9	200	5.0	2.4	7.6	300
Woman or partner had pay or hours cut back	8.4	5.2	11.5	700	14.7 *	4.1	25.4	100	11.0 *	1.6	20.4	<100	12.8 *	4.5	21.2	200	6.0 *	2.1	9.9	300
Became separated or divorced	3.2	1.5	4.8	300	11.7 *	2.0	21.3	<100	15.4 *	3.0	27.8	100	--				--			
Had no practical or emotional support	4.5	2.6	6.4	400	16.3 *	5.6	27.1	100	--				--				2.8 *	0.8	4.9	200
Substance Use																				
Any smoking, 3 months before pregnancy	3.1	1.6	4.5	300	--				--				4.3 *	0.4	8.3	<100	2.1 *	0.7	3.5	100
Any smoking, 3rd trimester	0.8 *	0.1	1.5	<100	--				--				--				--			
Any smoking, postpartum	0.8 *	0.1	1.5	<100	--				--				--				--			
Any binge drinking, 3 months before pregnancy	14.0	10.6	17.3	1,200	10.0 *	1.1	18.9	<100	--				16.4	7.4	25.3	300	14.1	10.2	18.0	700
Any alcohol use, 3rd trimester	11.5	8.7	14.4	1,000	--				--				--				16.2	12.1	20.4	900
Any cannabis use during pregnancy	2.0 *	0.7	3.2	200	--				--				3.7 *	0.2	7.2	<100	1.8 *	0.1	3.4	<100
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	19.9	15.7	24.0	1,700	24.9	11.7	38.2	200	36.0	18.9	53.0	300	31.4	19.7	43.2	500	13.5	9.2	17.9	700
Unsure of pregnancy intentions	8.4	5.9	10.9	700	16.8 *	4.4	29.1	100	--				14.8	7.0	22.7	200	6.5	3.9	9.2	300
Postpartum birth control use	77.8	73.6	81.9	6,400	--				72.5 *	55.2	89.8	600	79.9	69.8	90.0	1,200	76.1	71.0	81.1	4,000
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	88.9	85.5	92.3	7,500	87.3 *	78.1	96.5	600	88.2 *	79.4	97.1	700	87.2 *	78.9	95.5	1,300	89.6	85.2	94.0	4,800
Infant always or often shared bed	29.9	25.3	34.5	2,500	54.7	39.5	69.9	400	31.7	16.1	47.3	300	20.8	10.9	30.7	300	28.4	22.7	34.2	1,500
Intended to breastfeed, before birth	95.3	93.1	97.4	8,000	--				--				92.3 *	85.5	99.2	1,400	95.7	93.3	98.1	5,100
Intended to breastfeed exclusively, before birth	68.8	64.3	73.4	5,800	42.6	27.0	58.2	300	52.4	35.0	69.8	400	65.9	54.0	77.7	1,000	75.3	70.0	80.5	4,000
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	94.3	92.0	96.6	7,900	--				--				88.1 *	80.0	96.2	1,300	96.4 *	94.1	98.7	5,000
Exclusive breastfeeding, 1 month after delivery	47.1	42.2	52.0	3,900	43.9	28.1	59.7	300	49.6	31.9	67.3	400	44.3	32.0	56.6	700	47.3	41.4	53.3	2,500
Any breastfeeding, 3 months after delivery	81.7	77.4	86.0	5,500	72.1	56.0	88.2	400	74.7 *	59.2	90.3	600	70.3	58.2	82.4	900	87.6	83.1	92.2	3,600
Exclusive breastfeeding, 3 months after delivery	36.1	30.8	41.4	2,400	27.7 *	10.8	44.5	100	28.5 *	9.6	47.4	200	22.7	12.1	33.4	300	42.0	35.3	48.7	1,700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	79.9	75.8 - 84.1	6,800	74.5	60.3 - 88.7	500	61.8	44.7 - 78.8	500	81.7	72.2 - 91.1	1,300	82.7	77.9 - 87.6	4,400
Initiated prenatal care in 1st trimester	95.3	93.2 - 97.5	7,900	81.4 *	69.0 - 93.8	500	--			91.9 *	84.8 - 98.9	1,300	--		
Received dental care during pregnancy	56.8	52.0 - 61.7	4,800	53.1	38.0 - 68.2	400	36.4	21.2 - 51.5	300	62.7	50.8 - 74.5	900	59.1	53.1 - 65.1	3,100
Received a Tdap vaccine during pregnancy	75.3	71.3 - 79.4	6,300	68.5	54.6 - 82.5	500	66.9	50.8 - 83.1	600	68.0	56.6 - 79.3	1,000	79.2	74.7 - 83.7	4,200
Received a flu shot during pregnancy	81.2	77.2 - 85.3	6,800	90.7 *	82.7 - 98.7	600	89.4 *	80.9 - 98.0	800	66.4	55.0 - 77.8	1,000	82.6	77.4 - 87.8	4,400
Had a postpartum medical visit	92.9	90.1 - 95.8	7,800	89.5 *	81.2 - 97.7	600	78.6 *	61.5 - 95.8	700	86.5 *	78.4 - 94.5	1,300	97.4 *	95.2 - 99.5	5,200
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	17.4	13.5 - 21.2	1,500	48.0	32.8 - 63.3	300	47.9	30.8 - 65.1	400	25.7	15.3 - 36.1	400	5.8 *	2.0 - 9.6	300
Uninsured	6.0	3.7 - 8.3	500	23.9	11.0 - 36.8	200	12.4 *	3.0 - 21.8	100	13.4 *	4.6 - 22.1	200	--		
Private	74.0	69.6 - 78.4	6,300	13.2 *	1.6 - 24.7	<100	36.3	18.3 - 54.4	300	57.7	45.5 - 69.8	900	92.7	88.8 - 96.7	4,900
Prenatal insurance															
Medi-Cal	24.6	20.3 - 28.8	2,100	81.2 *	67.7 - 94.8	500	69.5 *	51.3 - 87.6	600	37.4	25.6 - 49.1	600	6.3 *	2.5 - 10.1	300
Uninsured	--			--			--			--			--		
Private	73.2	68.8 - 77.6	6,100	--			29.9 *	11.7 - 48.0	300	57.8	45.7 - 69.9	900	92.6	88.6 - 96.6	4,900
Had any gaps in insurance during pregnancy	4.8	2.6 - 6.9	400	--			--			10.7 *	3.1 - 18.3	200	2.6 *	0.6 - 4.7	100
Maternal postpartum insurance															
Medi-Cal	22.4	18.2 - 26.7	1,900	64.1	49.0 - 79.3	400	69.3	53.1 - 85.5	600	34.2	22.7 - 45.7	500	6.0 *	2.3 - 9.8	300
Uninsured	4.3	2.6 - 6.0	400	16.0 *	4.1 - 27.9	100	4.9 *	0.4 - 9.3	<100	8.8 *	2.9 - 14.6	100	1.6 *	0.5 - 2.7	<100
Private	71.7	67.2 - 76.2	6,000	--			22.2 *	6.2 - 38.3	200	54.4	42.2 - 66.6	800	92.4	88.5 - 96.3	4,900
Infant health insurance															
Medi-Cal	27.7	23.3 - 32.2	2,300	--			78.8 *	62.8 - 94.8	700	40.2	28.3 - 52.1	600	6.9	3.1 - 10.8	400
Uninsured	--			--			--			--			--		
Private	70.6	66.1 - 75.2	5,900	--			19.9 *	4.0 - 35.9	200	55.3	43.1 - 67.5	800	91.9	88.0 - 95.9	4,900
Maternal Demographics															
First live birth	45.9	41.1 - 50.7	3,900	36.7	21.8 - 51.5	300	33.0	16.9 - 49.1	300	46.2	34.0 - 58.3	700	49.3	43.4 - 55.2	2,600
Unmarried	20.8	17.0 - 24.6	1,800	59.7	44.6 - 74.7	400	64.1	46.8 - 81.3	500	29.8	19.6 - 39.9	500	6.5	3.9 - 9.0	300
Race/Ethnicity															
White	32.9	28.4 - 37.5	2,600	--			--			31.7	20.0 - 43.5	500	41.6	35.7 - 47.5	2,100
Hispanic	29.7	25.1 - 34.2	2,300	--			--			41.3	29.3 - 53.3	600	8.3	5.1 - 11.5	400
Asian/Pacific Islander	35.9	31.0 - 40.9	2,800	--			--			25.6	14.0 - 37.2	400	48.3	42.2 - 54.4	2,400
Black	1.5 *	0.3 - 2.7	100	--			--			1.4 *	0.1 - 2.6	<100	--		
Born outside the U.S.	49.0	44.1 - 53.8	4,200	82.0 *	68.8 - 95.1	600	67.1	50.3 - 83.8	600	27.1	16.7 - 37.5	400	47.3	41.4 - 53.2	2,500
Speaks non-English language at home	38.8	34.0 - 43.6	3,300	70.9	56.4 - 85.4	500	72.9	57.6 - 88.3	600	27.5	17.0 - 38.1	400	32.0	26.2 - 37.7	1,700
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	13.2	9.8 - 16.7	1,000	50.9	34.3 - 67.6	300	47.4	28.5 - 66.3	300	15.0 *	5.5 - 24.6	200	3.7 *	1.3 - 6.0	200
101-200%	14.9	11.3 - 18.6	1,200	36.7	20.3 - 53.2	200	45.4	26.3 - 64.5	300	34.2	22.2 - 46.1	500	3.6	1.7 - 5.6	200
> 200%	71.9	67.3 - 76.4	5,600	12.3 *	1.6 - 23.1	<100	--			50.8	37.8 - 63.8	700	92.7	89.7 - 95.7	4,800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, San Mateo County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			8,500	97.5	96.2	98.9	8,100	2.5	1.1	3.8	200
Health Status before Pregnancy												
In good to excellent health	94.2	91.4	97.0	8,000	94.1	91.3	97.0	7,600	--			
Chronic conditions												
Diabetes	2.3 *	0.7	3.8	200	2.4 *	0.8	4.0	200	--			
Hypertension	2.6	1.1	4.0	200	2.7	1.1	4.2	200	--			
Asthma	9.8	6.6	12.9	800	10.1	6.9	13.4	800	--			
Nutrition and Weight												
Daily folic acid use, month before pregnancy	46.0	41.2	50.8	3,900	46.0	41.1	51.0	3,700	29.2 *	4.0	54.3	<100
Overweight before pregnancy†	24.4	20.2	28.7	2,000	24.1	19.7	28.4	1,900	37.3 *	8.8	65.7	<100
Obese before pregnancy†	16.0	12.4	19.7	1,300	16.4	12.6	20.2	1,300	--			
Inadequate weight gain during pregnancy†	19.8	15.9	23.7	1,500	20.3	16.2	24.3	1,500	--			
Excessive weight gain during pregnancy†	40.7	35.9	45.5	3,200	40.4	35.4	45.3	3,000	64.1 *	37.0	91.2	100
Food insecurity during pregnancy	8.5	5.7	11.4	700	8.0	5.1	10.9	600	--			
Nutrition Program Participation												
Participated in WIC during pregnancy	23.4	19.2	27.5	1,900	21.9	17.7	26.0	1,700	45.5 *	16.6	74.4	<100
Received CalFresh (food stamps) during pregnancy	8.3	5.7	10.9	700	7.9	5.2	10.5	600	--			
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3	3.7	200	2.1 *	0.4	3.9	200	--			
Prenatal depressive symptoms†	13.1	9.3	16.8	1,100	13.1	9.2	17.0	1,100	--			
Postpartum depressive symptoms†	9.7	7.1	12.4	800	9.9	7.2	12.7	800	--			
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	1.5 *	0.5	2.4	100	1.6 *	0.5	2.6	100	--			
Moved due to problems paying rent or mortgage	4.0	1.9	6.1	300	4.2	2.0	6.3	300	--			
Woman or partner lost job	8.0	5.2	10.7	700	8.1	5.2	10.9	600	--			
Woman or partner had pay or hours cut back	8.4	5.2	11.5	700	7.7	4.6	10.9	600	--			
Became separated or divorced	3.2	1.5	4.8	300	3.1	1.4	4.9	200	--			
Had no practical or emotional support	4.5	2.6	6.4	400	4.5	2.5	6.5	400	--			
Substance Use												
Any smoking, 3 months before pregnancy	3.1	1.6	4.5	300	3.2	1.7	4.7	300	--			
Any smoking, 3rd trimester	0.8 *	0.1	1.5	<100	0.8 *	0.1	1.6	<100	--			
Any smoking, postpartum	0.8 *	0.1	1.5	<100	0.8 *	0.1	1.5	<100	--			
Any binge drinking, 3 months before pregnancy	14.0	10.6	17.3	1,200	14.1	10.7	17.6	1,100	--			
Any alcohol use, 3rd trimester	11.5	8.7	14.4	1,000	11.6	8.7	14.6	900	--			
Any cannabis use during pregnancy	2.0 *	0.7	3.2	200	1.9 *	0.7	3.2	200	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	19.9	15.7	24.0	1,700	19.8	15.6	24.1	1,600	--			
Unsure of pregnancy intentions	8.4	5.9	10.9	700	8.6	6.1	11.2	700	--			
Postpartum birth control use	77.8	73.6	81.9	6,400	77.7	73.4	81.9	6,100	--			
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	88.9	85.5	92.3	7,500	88.6	85.1	92.1	7,200	--			
Infant always or often shared bed	29.9	25.3	34.5	2,500	30.5	25.8	35.3	2,400	--			
Intended to breastfeed, before birth	95.3	93.1	97.4	8,000	95.3	93.1	97.5	7,700	--			
Intended to breastfeed exclusively, before birth	68.8	64.3	73.4	5,800	68.6	63.9	73.3	5,500	--			
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	94.3	92.0	96.6	7,900	94.1	91.6	96.5	7,500	--			
Exclusive breastfeeding, 1 month after delivery	47.1	42.2	52.0	3,900	46.6	41.6	51.7	3,700	48.0	19.9	76.1	<100
Any breastfeeding, 3 months after delivery	81.7	77.4	86.0	5,500	81.1	76.7	85.6	5,200	--			
Exclusive breastfeeding, 3 months after delivery	36.1	30.8	41.4	2,400	36.4	31.0	41.9	2,300	31.9 *	6.5	57.4	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	79.9	75.8	84.1	6,800	79.7	75.4	84.0	6,500	--			
Initiated prenatal care in 1st trimester	95.3	93.2	97.5	7,900	95.8	93.6	97.9	7,600	--			
Received dental care during pregnancy	56.8	52.0	61.7	4,800	56.5	51.5	61.5	4,500	61.6 *	34.2	89.0	100
Received a Tdap vaccine during pregnancy	75.3	71.3	79.4	6,300	74.8	70.6	79.0	6,000	--			
Received a flu shot during pregnancy	81.2	77.2	85.3	6,800	81.1	77.0	85.3	6,500	--			
Had a postpartum medical visit	92.9	90.1	95.8	7,800	93.0	90.0	95.9	7,500	--			
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	17.4	13.5	21.2	1,500	17.1	13.1	21.1	1,400	--			
Uninsured	6.0	3.7	8.3	500	5.8	3.5	8.1	500	--			
Private	74.0	69.6	78.4	6,300	74.8	70.4	79.3	6,100	51.8 *	22.4	81.1	100
Prenatal insurance												
Medi-Cal	24.6	20.3	28.8	2,100	23.5	19.2	27.8	1,900	--			
Uninsured	--				--				--			
Private	73.2	68.8	77.6	6,100	74.2	69.8	78.7	6,000	59.4 *	30.0	88.8	100
Had any gaps in insurance during pregnancy	4.8	2.6	6.9	400	4.8	2.6	7.1	400	--			
Maternal postpartum insurance												
Medi-Cal	22.4	18.2	26.7	1,900	22.4	18.0	26.8	1,800	--			
Uninsured	4.3	2.6	6.0	400	3.3	1.9	4.7	300	--			
Private	71.7	67.2	76.2	6,000	72.8	68.2	77.4	5,900	57.2 *	28.0	86.5	100
Infant health insurance												
Medi-Cal	27.7	23.3	32.2	2,300	26.9	22.3	31.4	2,200	40.7 *	12.2	69.3	<100
Uninsured	--				--				--			
Private	70.6	66.1	75.2	5,900	71.7	67.1	76.3	5,700	59.3 *	30.7	87.8	100
Maternal Demographics												
Age												
15-19	1.8 *	0.7	2.9	100	1.8 *	0.7	3.0	100	--			
20-34	63.2	58.8	67.7	5,400	62.8	58.2	67.4	5,100	71.0 *	45.2	96.8	100
35+	35.0	30.6	39.4	3,000	35.3	30.8	39.9	2,900	--			
First live birth	45.9	41.1	50.7	3,900	46.1	41.2	51.1	3,700	44.8 *	16.5	73.2	<100
Less than high school education (or GED)	8.3	5.9	10.8	700	7.8	5.4	10.2	600	--			
Unmarried	20.8	17.0	24.6	1,800	19.9	16.1	23.8	1,600	48.6	20.3	76.8	<100
Race/Ethnicity												
White	32.9	28.4	37.5	2,600	32.9	28.2	37.5	2,500	48.5 *	19.5	77.4	<100
Hispanic	29.7	25.1	34.2	2,300	28.5	23.8	33.1	2,200	49.6	20.5	78.7	<100
Asian/Pacific Islander	35.9	31.0	40.9	2,800	37.2	32.1	42.2	2,800	--			
Black	1.5 *	0.3	2.7	100	1.5 *	0.3	2.7	100	--			
Born outside the U.S.	49.0	44.1	53.8	4,200	48.7	43.8	53.7	4,000	--			
Speaks non-English language at home	38.8	34.0	43.6	3,300	38.2	33.3	43.1	3,100	46.5 *	17.9	75.1	<100
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	13.2	9.8	16.7	1,000	12.8	9.2	16.3	1,000	--			
101-200%	14.9	11.3	18.6	1,200	14.1	10.5	17.8	1,100	--			
> 200%	71.9	67.3	76.4	5,600	73.1	68.5	77.8	5,500	54.3 *	24.8	83.8	100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, San Mateo County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			8,500	13.2	9.8 - 16.7		1,000	14.9	11.3 - 18.6		1,200	71.9	67.3 - 76.4		5,600
Health Status before Pregnancy																
In good to excellent health	94.2	91.4 - 97.0		8,000	92.0 *	84.9 - 99.0		900	--				94.8 *	91.2 - 98.5		5,300
Chronic conditions																
Diabetes	2.3 *	0.7 - 3.8		200	--				--				1.2 *	0.2 - 2.1		<100
Hypertension	2.6	1.1 - 4.0		200	--				--				2.2 *	0.7 - 3.8		100
Asthma	9.8	6.6 - 12.9		800	17.9 *	6.2 - 29.7		200	4.6 *	0.1 - 9.1		<100	9.5	5.7 - 13.3		500
Nutrition and Weight																
Daily folic acid use, month before pregnancy	46.0	41.2 - 50.8		3,900	27.9	15.4 - 40.4		300	31.2	19.2 - 43.2		400	53.3	47.4 - 59.2		3,000
Overweight before pregnancy†	24.4	20.2 - 28.7		2,000	42.0	28.0 - 56.0		400	29.2	17.4 - 41.0		300	19.4	14.5 - 24.2		1,100
Obese before pregnancy†	16.0	12.4 - 19.7		1,300	32.3	18.5 - 46.0		300	26.2	13.4 - 38.9		300	10.2	7.0 - 13.5		600
Inadequate weight gain during pregnancy†	19.8	15.9 - 23.7		1,500	14.6	6.4 - 22.8		100	17.4 *	6.0 - 28.9		200	20.7	15.9 - 25.5		1,100
Excessive weight gain during pregnancy†	40.7	35.9 - 45.5		3,200	57.0	43.0 - 71.0		500	42.3	28.7 - 55.8		500	39.6	33.9 - 45.3		2,000
Food insecurity during pregnancy	8.5	5.7 - 11.4		700	34.2	20.8 - 47.5		300	24.9	11.8 - 37.9		300	--			
Nutrition Program Participation																
Participated in WIC during pregnancy	23.4	19.2 - 27.5		1,900	88.8 *	79.6 - 97.9		900	54.6	41.1 - 68.0		600	1.9 *	0.5 - 3.4		100
Received CalFresh (food stamps) during pregnancy	8.3	5.7 - 10.9		700	42.0	28.2 - 55.8		400	17.3	7.4 - 27.1		200	--			
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3 - 3.7		200	--				--				2.5 *	0.1 - 4.8		100
Prenatal depressive symptoms†	13.1	9.3 - 16.8		1,100	21.4	9.4 - 33.5		200	10.7 *	2.9 - 18.6		100	11.9	7.1 - 16.6		700
Postpartum depressive symptoms†	9.7	7.1 - 12.4		800	10.8 *	1.8 - 19.7		100	6.0 *	0.9 - 11.1		<100	10.0	6.8 - 13.3		600
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	1.5 *	0.5 - 2.4		100	3.4 *	0.5 - 6.3		<100	--				--			
Moved due to problems paying rent or mortgage	4.0	1.9 - 6.1		300	16.2 *	3.9 - 28.5		200	5.6 *	0.4 - 10.9		<100	--			
Woman or partner lost job	8.0	5.2 - 10.7		700	23.1	10.3 - 35.9		200	12.6 *	2.1 - 23.1		100	4.6	2.3 - 6.9		300
Woman or partner had pay or hours cut back	8.4	5.2 - 11.5		700	24.3	11.6 - 37.0		200	14.6 *	5.4 - 23.8		200	4.7 *	1.2 - 8.2		300
Became separated or divorced	3.2	1.5 - 4.8		300	16.2 *	5.4 - 27.0		200	--				--			
Had no practical or emotional support	4.5	2.6 - 6.4		400	9.3 *	2.1 - 16.5		<100	7.7 *	2.2 - 13.3		<100	2.0 *	0.2 - 3.9		100
Substance Use																
Any smoking, 3 months before pregnancy	3.1	1.6 - 4.5		300	8.4 *	0.8 - 16.1		<100	6.0 *	1.0 - 11.0		<100	1.4 *	0.3 - 2.5		<100
Any smoking, 3rd trimester	0.8 *	0.1 - 1.5		<100	--				--				--			
Any smoking, postpartum	0.8 *	0.1 - 1.5		<100	--				--				--			
Any binge drinking, 3 months before pregnancy	14.0	10.6 - 17.3		1,200	10.1 *	1.2 - 19.0		100	15.7 *	4.2 - 27.2		200	15.7	11.7 - 19.8		900
Any alcohol use, 3rd trimester	11.5	8.7 - 14.4		1,000	--				--				16.8	12.7 - 20.9		900
Any cannabis use during pregnancy	2.0 *	0.7 - 3.2		200	--				--				1.9 *	0.3 - 3.5		100
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	19.9	15.7 - 24.0		1,700	37.9	23.9 - 51.9		400	24.3	12.2 - 36.5		300	15.6	11.0 - 20.3		900
Unsure of pregnancy intentions	8.4	5.9 - 10.9		700	12.1 *	3.3 - 20.8		100	17.3	7.8 - 26.8		200	6.6	4.0 - 9.2		400
Postpartum birth control use	77.8	73.6 - 81.9		6,400	82.1 *	70.1 - 94.1		800	89.2 *	78.9 - 99.5		1,000	74.3	69.2 - 79.5		4,100
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	88.9	85.5 - 92.3		7,500	80.8	71.0 - 90.5		800	87.0 *	78.0 - 96.0		1,000	89.9	85.6 - 94.3		5,000
Infant always or often shared bed	29.9	25.3 - 34.5		2,500	29.4	17.8 - 41.0		300	25.7	15.2 - 36.2		300	28.9	23.1 - 34.6		1,600
Intended to breastfeed, before birth	95.3	93.1 - 97.4		8,000	83.9 *	72.0 - 95.9		900	--				96.8	95.0 - 98.6		5,400
Intended to breastfeed exclusively, before birth	68.8	64.3 - 73.4		5,800	58.1	44.1 - 72.1		600	61.4	48.7 - 74.1		700	73.6	68.2 - 79.0		4,100
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	94.3	92.0 - 96.6		7,900	88.1 *	77.9 - 98.3		900	86.0 *	76.0 - 95.9		1,000	97.4 *	95.8 - 99.0		5,400
Exclusive breastfeeding, 1 month after delivery	47.1	42.2 - 52.0		3,900	46.1	31.5 - 60.8		500	39.1	25.7 - 52.6		400	48.1	42.2 - 54.0		2,700
Any breastfeeding, 3 months after delivery	81.7	77.4 - 86.0		5,500	73.2	58.4 - 87.9		600	70.0	56.6 - 83.4		700	86.0	81.4 - 90.6		3,700
Exclusive breastfeeding, 3 months after delivery	36.1	30.8 - 41.4		2,400	28.8	14.5 - 43.1		200	23.1	9.6 - 36.6		200	39.9	33.3 - 46.5		1,700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	79.9	75.8	84.1	6,800	68.6	56.0	81.3	700	69.8	56.3	83.3	800	84.9	80.4	89.5	4,800
Initiated prenatal care in 1st trimester	95.3	93.2	97.5	7,900	86.8 *	76.6	97.0	800	87.3 *	77.4	97.1	1,000	--			
Received dental care during pregnancy	56.8	52.0	61.7	4,800	44.6	30.7	58.5	400	37.0	24.4	49.6	400	63.0	57.2	68.9	3,500
Received a Tdap vaccine during pregnancy	75.3	71.3	79.4	6,300	66.7	53.1	80.3	700	71.6	59.9	83.4	800	79.1	74.5	83.7	4,400
Received a flu shot during pregnancy	81.2	77.2	85.3	6,800	88.1 *	79.8	96.4	900	82.4	72.7	92.1	1,000	79.9	74.6	85.2	4,500
Had a postpartum medical visit	92.9	90.1	95.8	7,800	74.6	60.3	88.9	800	88.2 *	77.6	98.8	1,000	97.2 *	95.3	99.0	5,500
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	17.4	13.5	21.2	1,500	65.0	51.7	78.3	700	36.1	23.3	48.8	400	4.0 *	0.6	7.3	200
Uninsured	6.0	3.7	8.3	500	14.6 *	5.2	24.0	200	15.9 *	6.3	25.4	200	--			
Private	74.0	69.6	78.4	6,300	12.0 *	2.0	22.0	100	42.4	28.9	55.8	500	94.7 *	91.2	98.3	5,300
Prenatal insurance																
Medi-Cal	24.6	20.3	28.8	2,100	89.5 *	79.2	99.8	900	60.1	46.8	73.3	700	3.6 *	0.4	6.8	200
Uninsured	--				--				--				--			
Private	73.2	68.8	77.6	6,100	10.5 *	0.2	20.8	100	34.1	20.9	47.2	400	95.5 *	92.2	98.9	5,300
Had any gaps in insurance during pregnancy	4.8	2.6	6.9	400	--				3.6 *	0.3	6.9	<100	3.9 *	1.5	6.2	200
Maternal postpartum insurance																
Medi-Cal	22.4	18.2	26.7	1,900	79.4	68.2	90.7	800	62.0	49.4	74.6	700	--			
Uninsured	4.3	2.6	6.0	400	8.4 *	2.7	14.1	<100	13.3 *	4.8	21.9	200	1.2 *	0.3	2.1	<100
Private	71.7	67.2	76.2	6,000	--				24.2	13.2	35.2	300	96.1 *	92.9	99.3	5,400
Infant health insurance																
Medi-Cal	27.7	23.3	32.2	2,300	--				75.7	65.0	86.3	900	4.1 *	0.9	7.3	200
Uninsured	--				--				--				--			
Private	70.6	66.1	75.2	5,900	--				22.0	11.7	32.3	300	95.3 *	92.0	98.6	5,300
Maternal Demographics																
First live birth	45.9	41.1	50.7	3,900	30.6	18.2	42.9	300	30.5	18.9	42.1	400	50.1	44.2	55.9	2,800
Less than high school education (or GED)	8.3	5.9	10.8	700	29.6	17.7	41.5	300	18.3	8.5	28.1	200	1.3 *	0.1	2.5	<100
Unmarried	20.8	17.0	24.6	1,800	50.4	36.2	64.6	500	44.5	31.3	57.8	500	8.3	5.2	11.3	500
Race/Ethnicity																
White	32.9	28.4	37.5	2,600	18.9 *	6.7	31.1	200	10.8 *	3.6	17.9	100	41.1	35.3	46.9	2,200
Hispanic	29.7	25.1	34.2	2,300	69.4	55.3	83.6	700	71.1	59.0	83.2	700	11.1	7.7	14.6	600
Asian/Pacific Islander	35.9	31.0	40.9	2,800	10.5 *	0.5	20.5	<100	17.5 *	6.8	28.1	200	46.1	40.0	52.2	2,500
Black	1.5 *	0.3	2.7	100	--				--				--			
Born outside the U.S.	49.0	44.1	53.8	4,200	63.5	49.6	77.5	700	54.1	40.8	67.5	600	43.0	37.1	48.9	2,400
Speaks non-English language at home	38.8	34.0	43.6	3,300	66.4	53.2	79.5	700	55.3	42.0	68.7	600	28.6	23.1	34.1	1,600
Lives in a high poverty neighborhood†	--				--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, San Mateo County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†		
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	N
Total	100			8,500	72.2	67.8	76.7	6,000	23.2	19.1	27.2	1,900	4.6	2.0	7.2	400	--		
Health Status before Pregnancy																			
In good to excellent health	94.2	91.4	97.0	8,000	95.6	93.2	98.1	5,700	96.8 *	93.8	99.7	1,900	60.5 *	28.8	92.3	200	--		
Chronic conditions																			
Diabetes	2.3 *	0.7	3.8	200	1.9 *	0.1	3.6	100	--				--				--		
Hypertension	2.6	1.1	4.0	200	3.0 *	1.0	5.0	200	1.8 *	0.1	3.4	<100	--				--		
Asthma	9.8	6.6	12.9	800	10.0	6.2	13.8	600	9.7 *	3.2	16.2	200	--				--		
Nutrition and Weight																			
Daily folic acid use, month before pregnancy	46.0	41.2	50.8	3,900	49.4	43.7	55.0	3,000	36.1	26.3	46.0	700	34.4 *	10.4	58.4	100	--		
Overweight before pregnancy†	24.4	20.2	28.7	2,000	22.0	17.2	26.9	1,300	31.1	21.6	40.5	600	28.6 *	4.2	52.9	100	--		
Obese before pregnancy†	16.0	12.4	19.7	1,300	13.6	9.5	17.7	800	22.4	13.8	31.0	400	29.8 *	7.0	52.6	100	--		
Inadequate weight gain during pregnancy†	19.8	15.9	23.7	1,500	20.2	15.5	25.0	1,100	17.8	10.2	25.3	300	22.7 *	3.0	42.3	<100	--		
Excessive weight gain during pregnancy†	40.7	35.9	45.5	3,200	39.6	34.0	45.3	2,200	44.3	34.1	54.5	800	46.4	21.2	71.7	100	--		
Food insecurity during pregnancy	8.5	5.7	11.4	700	4.1 *	1.4	6.7	200	20.5	12.2	28.8	400	--				--		
Nutrition Program Participation																			
Participated in WIC during pregnancy	23.4	19.2	27.5	1,900	14.6	10.7	18.5	800	42.9	32.9	53.0	800	39.6 *	11.8	67.3	100	--		
Received CalFresh (food stamps) during pregnancy	8.3	5.7	10.9	700	5.0	2.8	7.2	300	18.7	10.2	27.2	400	--				--		
Intimate Partner Violence (IPV) and Depressive Symptoms																			
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3	3.7	200	--				--				--				--		
Prenatal depressive symptoms†	13.1	9.3	16.8	1,100	11.7	7.7	15.7	700	13.7	6.9	20.5	300	38.3 *	5.7	70.9	100	--		
Postpartum depressive symptoms†	9.7	7.1	12.4	800	10.9	7.5	14.2	600	7.6 *	3.1	12.1	100	--				--		
Hardships and Support during Pregnancy																			
Homeless or did not have a regular place to sleep	1.5 *	0.5	2.4	100	--				4.9 *	1.1	8.6	<100	--				--		
Moved due to problems paying rent or mortgage	4.0	1.9	6.1	300	2.0 *	0.3	3.7	100	11.1 *	3.9	18.2	200	--				--		
Woman or partner lost job	8.0	5.2	10.7	700	5.8	2.8	8.8	300	12.8	6.2	19.4	200	--				--		
Woman or partner had pay or hours cut back	8.4	5.2	11.5	700	5.2	2.8	7.5	300	12.9	5.6	20.2	200	--				--		
Became separated or divorced	3.2	1.5	4.8	300	2.2 *	0.2	4.2	100	6.4	2.7	10.1	100	--				--		
Had no practical or emotional support	4.5	2.6	6.4	400	3.5 *	1.4	5.6	200	7.8 *	3.0	12.7	200	--				--		
Substance Use																			
Any smoking, 3 months before pregnancy	3.1	1.6	4.5	300	3.2	1.4	5.0	200	2.2 *	0.1	4.4	<100	--				--		
Any smoking, 3rd trimester	0.8 *	0.1	1.5	<100	--				--				--				--		
Any smoking, postpartum	0.8 *	0.1	1.5	<100	--				--				--				--		
Any binge drinking, 3 months before pregnancy	14.0	10.6	17.3	1,200	13.3	9.2	17.3	800	16.9	10.0	23.9	300	--				--		
Any alcohol use, 3rd trimester	11.5	8.7	14.4	1,000	12.1	8.7	15.5	700	11.3	4.9	17.7	200	--				--		
Any cannabis use during pregnancy	2.0 *	0.7	3.2	200	1.5 *	0.1	3.0	<100	3.8 *	0.8	6.8	<100	--				--		
Pregnancy Intention and Family Planning																			
Mistimed or unwanted pregnancy	19.9	15.7	24.0	1,700	17.7	12.9	22.6	1,100	27.6	18.4	36.8	500	--				--		
Unsure of pregnancy intentions	8.4	5.9	10.9	700	7.7	4.9	10.5	500	10.1	4.3	16.0	200	--				--		
Postpartum birth control use	77.8	73.6	81.9	6,400	75.1	69.9	80.3	4,400	81.9	74.6	89.1	1,500	--				--		
Infant Sleep and Breastfeeding																			
Placed infant on back to sleep	88.9	85.5	92.3	7,500	91.1	87.8	94.4	5,500	84.9	78.1	91.7	1,600	--				--		
Infant always or often shared bed	29.9	25.3	34.5	2,500	27.3	22.1	32.5	1,600	35.1	25.5	44.7	700	48.3 *	17.8	78.9	200	--		
Intended to breastfeed, before birth	95.3	93.1	97.4	8,000	96.4	94.4	98.4	5,700	94.2 *	89.1	99.3	1,800	--				--		
Intended to breastfeed exclusively, before birth	68.8	64.3	73.4	5,800	70.0	64.5	75.4	4,200	66.5	57.2	75.7	1,300	70.0 *	45.0	95.0	300	--		
Breastfeeding practices																			
Any breastfeeding, 1 month after delivery	94.3	92.0	96.6	7,900	95.2	92.8	97.7	5,600	92.3 *	87.3	97.4	1,700	--				--		
Exclusive breastfeeding, 1 month after delivery	47.1	42.2	52.0	3,900	46.8	41.1	52.5	2,800	51.0	41.0	61.1	1,000	--				--		
Any breastfeeding, 3 months after delivery	81.7	77.4	86.0	5,500	81.9	76.8	87.0	4,000	79.6	70.5	88.8	1,100	--				--		
Exclusive breastfeeding, 3 months after delivery	36.1	30.8	41.4	2,400	37.4	31.3	43.5	1,800	38.8	26.7	50.8	500	--				--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	79.9	75.8	84.1	6,800	81.3	76.6	85.9	4,900	76.3	68.1	84.4	1,500	--				--			
Initiated prenatal care in 1st trimester	95.3	93.2	97.5	7,900	96.3 *	93.8	98.8	5,600	93.1 *	88.2	98.1	1,800	--				--			
Received dental care during pregnancy	56.8	52.0	61.7	4,800	58.3	52.6	64.0	3,500	51.9	42.0	61.8	1,000	54.0 *	22.7	85.4	200	--			
Received a Tdap vaccine during pregnancy	75.3	71.3	79.4	6,300	74.7	69.9	79.6	4,400	73.4	64.7	82.1	1,400	--				--			
Received a flu shot during pregnancy	81.2	77.2	85.3	6,800	80.4	75.8	85.0	4,800	86.0	78.9	93.1	1,700	--				--			
Had a postpartum medical visit	92.9	90.1	95.8	7,800	94.1	90.8	97.4	5,600	90.7 *	84.7	96.6	1,700	--				--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	17.4	13.5	21.2	1,500	10.1	6.8	13.4	600	32.4	22.8	42.0	600	57.6 *	30.7	84.5	200	--			
Uninsured	6.0	3.7	8.3	500	4.7	2.2	7.2	300	8.9 *	3.5	14.4	200	--				--			
Private	74.0	69.6	78.4	6,300	83.1	78.9	87.3	5,000	54.8	44.8	64.7	1,000	33.8 *	9.6	57.9	100	--			
Prenatal insurance																				
Medi-Cal	24.6	20.3	28.8	2,100	15.8	11.8	19.8	900	40.8	31.0	50.6	800	63.1 *	37.9	88.3	200	--			
Uninsured	--				--				--				--				--			
Private	73.2	68.8	77.6	6,100	82.4	78.2	86.7	4,900	55.7	45.8	65.5	1,100	33.8 *	9.6	57.9	100	--			
Had any gaps in insurance during pregnancy	4.8	2.6	6.9	400	3.0 *	1.1	5.0	200	10.5 *	3.7	17.3	200	--				--			
Maternal postpartum insurance																				
Medi-Cal	22.4	18.2	26.7	1,900	14.4	10.3	18.6	900	37.9	28.1	47.6	700	64.0 *	39.1	88.8	200	--			
Uninsured	4.3	2.6	6.0	400	2.7	1.2	4.3	200	7.5 *	3.0	12.0	100	--				--			
Private	71.7	67.2	76.2	6,000	81.1	76.6	85.6	4,800	53.7	43.8	63.6	1,000	33.8 *	9.6	57.9	100	--			
Infant health insurance																				
Medi-Cal	27.7	23.3	32.2	2,300	17.6	13.2	21.9	1,000	49.3	39.3	59.3	900	67.8 *	43.4	92.2	300	--			
Uninsured	--				--				--				--				--			
Private	70.6	66.1	75.2	5,900	80.8	76.3	85.3	4,800	49.7	39.7	59.7	900	32.2 *	7.8	56.6	100	--			
Maternal Demographics																				
Age																				
15-19	1.8 *	0.7	2.9	100	--				4.4 *	1.0	7.8	<100	--				--			
20-34	63.2	58.8	67.7	5,400	60.7	55.3	66.1	3,600	69.0	60.2	77.8	1,300	69.3 *	47.3	91.3	300	--			
35+	35.0	30.6	39.4	3,000	38.2	32.9	43.6	2,300	26.6	18.2	35.0	500	30.0 *	8.3	51.8	100	--			
First live birth	45.9	41.1	50.7	3,900	47.4	41.7	53.0	2,800	41.2	31.5	51.0	800	50.2 *	20.9	79.5	200	--			
Less than high school education (or GED)	8.3	5.9	10.8	700	5.3	2.8	7.7	300	16.9	10.0	23.9	300	--				--			
Unmarried	20.8	17.0	24.6	1,800	17.2	12.9	21.5	1,000	31.6	22.7	40.4	600	18.9 *	1.6	36.2	<100	--			
Race/Ethnicity																				
White	32.9	28.4	37.5	2,600	36.1	30.7	41.6	2,000	26.1	17.2	34.9	500	23.7 *	2.6	44.8	<100	--			
Hispanic	29.7	25.1	34.2	2,300	20.6	15.9	25.3	1,200	49.9	39.6	60.3	900	53.3 *	23.1	83.4	200	--			
Asian/Pacific Islander	35.9	31.0	40.9	2,800	41.6	35.8	47.5	2,300	22.8	14.7	30.9	400	--				--			
Black	1.5 *	0.3	2.7	100	--				1.2 *	0.0	2.4	<100	--				--			
Born outside the U.S.	49.0	44.1	53.8	4,200	47.1	41.4	52.8	2,800	47.7	37.8	57.6	900	73.1 *	51.9	94.4	300	--			
Speaks non-English language at home	38.8	34.0	43.6	3,300	34.8	29.4	40.2	2,100	43.5	33.6	53.3	800	68.8 *	45.9	91.7	300	--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	13.2	9.8	16.7	1,000	8.5	5.2	11.8	500	23.5	14.4	32.7	400	31.6 *	4.5	58.7	100	--			
101-200%	14.9	11.3	18.6	1,200	12.3	8.2	16.5	700	22.8	14.1	31.4	400	--				--			
> 200%	71.9	67.3	76.4	5,600	79.2	74.2	84.1	4,500	53.7	43.4	64.0	900	58.8 *	29.8	87.8	200	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, San Mateo County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		8,500	24.6	20.3 - 28.8	2,100	73.2	68.8 - 77.6	6,100
Health Status before Pregnancy									
In good to excellent health	94.2	91.4 - 97.0	8,000	85.6 *	76.6 - 94.6	1,700	96.8 *	94.7 - 98.9	5,900
Chronic conditions									
Diabetes	2.3 *	0.7 - 3.8	200	4.4 *	0.7 - 8.0	<100	--		
Hypertension	2.6	1.1 - 4.0	200	--			2.6 *	0.8 - 4.3	200
Asthma	9.8	6.6 - 12.9	800	11.8	4.9 - 18.7	200	8.9	5.4 - 12.4	500
Nutrition and Weight									
Daily folic acid use, month before pregnancy	46.0	41.2 - 50.8	3,900	28.5	19.6 - 37.4	600	51.3	45.7 - 56.9	3,200
Overweight before pregnancy†	24.4	20.2 - 28.7	2,000	40.1	30.2 - 50.0	800	18.7	14.1 - 23.3	1,100
Obese before pregnancy†	16.0	12.4 - 19.7	1,300	23.7	15.2 - 32.1	500	12.7	8.9 - 16.5	800
Inadequate weight gain during pregnancy†	19.8	15.9 - 23.7	1,500	17.7	10.8 - 24.6	300	20.3	15.6 - 25.0	1,200
Excessive weight gain during pregnancy†	40.7	35.9 - 45.5	3,200	45.1	35.0 - 55.1	800	40.0	34.5 - 45.6	2,300
Food insecurity during pregnancy	8.5	5.7 - 11.4	700	23.5	15.4 - 31.7	500	3.3 *	0.8 - 5.9	200
Nutrition Program Participation									
Participated in WIC during pregnancy	23.4	19.2 - 27.5	1,900	76.3	66.2 - 86.5	1,600	4.9 *	1.9 - 7.9	300
Received CalFresh (food stamps) during pregnancy	8.3	5.7 - 10.9	700	31.7	22.5 - 40.9	600	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3 - 3.7	200	--			2.3 *	0.2 - 4.5	100
Prenatal depressive symptoms†	13.1	9.3 - 16.8	1,100	23.2	13.2 - 33.1	500	9.6	6.0 - 13.3	600
Postpartum depressive symptoms†	9.7	7.1 - 12.4	800	7.2 *	2.8 - 11.5	100	10.1	7.0 - 13.2	600
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	1.5 *	0.5 - 2.4	100	3.5 *	0.8 - 6.2	<100	--		
Moved due to problems paying rent or mortgage	4.0	1.9 - 6.1	300	10.6 *	3.6 - 17.7	200	2.0 *	0.4 - 3.7	100
Woman or partner lost job	8.0	5.2 - 10.7	700	13.0	6.3 - 19.8	300	5.8	3.0 - 8.7	400
Woman or partner had pay or hours cut back	8.4	5.2 - 11.5	700	24.1	13.8 - 34.3	500	3.6	1.6 - 5.6	200
Became separated or divorced	3.2	1.5 - 4.8	300	9.7	4.7 - 14.8	200	--		
Had no practical or emotional support	4.5	2.6 - 6.4	400	11.8	6.0 - 17.5	200	2.2 *	0.5 - 3.9	100
Substance Use									
Any smoking, 3 months before pregnancy	3.1	1.6 - 4.5	300	6.8 *	2.3 - 11.3	100	2.0 *	0.7 - 3.3	100
Any smoking, 3rd trimester	0.8 *	0.1 - 1.5	<100	--			--		
Any smoking, postpartum	0.8 *	0.1 - 1.5	<100	3.0 *	0.2 - 5.7	<100	--		
Any binge drinking, 3 months before pregnancy	14.0	10.6 - 17.3	1,200	7.7 *	2.8 - 12.5	200	15.8	11.7 - 19.9	1,000
Any alcohol use, 3rd trimester	11.5	8.7 - 14.4	1,000	--			15.1	11.3 - 18.9	900
Any cannabis use during pregnancy	2.0 *	0.7 - 3.2	200	1.7 *	0.1 - 3.3	<100	2.1 *	0.5 - 3.8	100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	19.9	15.7 - 24.0	1,700	26.3	18.0 - 34.6	500	17.5	12.6 - 22.4	1,100
Unsure of pregnancy intentions	8.4	5.9 - 10.9	700	14.4	7.7 - 21.1	300	6.3	3.9 - 8.8	400
Postpartum birth control use	77.8	73.6 - 81.9	6,400	87.4	81.0 - 93.8	1,700	75.3	70.3 - 80.4	4,500
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	88.9	85.5 - 92.3	7,500	79.9	70.6 - 89.3	1,600	91.8	88.6 - 95.0	5,600
Infant always or often shared bed	29.9	25.3 - 34.5	2,500	37.3	27.5 - 47.1	800	27.4	22.1 - 32.8	1,700
Intended to breastfeed, before birth	95.3	93.1 - 97.4	8,000	89.5 *	82.6 - 96.4	1,800	97.0	95.3 - 98.6	5,900
Intended to breastfeed exclusively, before birth	68.8	64.3 - 73.4	5,800	56.5	46.5 - 66.4	1,100	73.2	68.0 - 78.4	4,500
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	94.3	92.0 - 96.6	7,900	84.7	76.9 - 92.4	1,700	97.6 *	96.1 - 99.1	5,900
Exclusive breastfeeding, 1 month after delivery	47.1	42.2 - 52.0	3,900	39.5	29.6 - 49.4	800	50.7	45.0 - 56.4	3,000
Any breastfeeding, 3 months after delivery	81.7	77.4 - 86.0	5,500	72.0	62.3 - 81.7	1,300	85.6	81.0 - 90.3	4,100
Exclusive breastfeeding, 3 months after delivery	36.1	30.8 - 41.4	2,400	21.0	12.5 - 29.4	400	42.6	36.1 - 49.1	2,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	79.9	75.8	84.1	6,800	63.1	52.8	73.3	1,300	87.0	83.2	90.8	5,300
Initiated prenatal care in 1st trimester	95.3	93.2	97.5	7,900	88.7	82.9	94.4	1,800	97.4 *	95.1	99.6	5,900
Received dental care during pregnancy	56.8	52.0	61.7	4,800	40.6	30.9	50.4	800	61.3	55.6	66.9	3,800
Received a Tdap vaccine during pregnancy	75.3	71.3	79.4	6,300	69.1	60.1	78.1	1,400	77.3	72.7	81.9	4,700
Received a flu shot during pregnancy	81.2	77.2	85.3	6,800	82.8	73.8	91.8	1,700	80.4	75.8	85.0	4,900
Had a postpartum medical visit	92.9	90.1	95.8	7,800	85.0	77.8	92.2	1,800	96.1 *	93.3	98.9	5,900
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	17.4	13.5	21.2	1,500	69.7	61.1	78.4	1,400	--			
Uninsured	6.0	3.7	8.3	500	17.1	10.1	24.2	300	--			
Private	74.0	69.6	78.4	6,300	8.9 *	3.6	14.1	200	98.1 *	96.5	99.7	6,000
Had any gaps in insurance during pregnancy	4.8	2.6	6.9	400	6.8 *	1.7	12.0	100	2.6 *	0.7	4.4	200
Maternal postpartum insurance												
Medi-Cal	22.4	18.2	26.7	1,900	83.3	76.8	89.7	1,700	--			
Uninsured	4.3	2.6	6.0	400	10.2	5.0	15.4	200	1.3 *	0.3	2.2	<100
Private	71.7	67.2	76.2	6,000	--				96.6 *	94.2	98.9	5,900
Infant health insurance												
Medi-Cal	27.7	23.3	32.2	2,300	96.5 *	93.3	99.7	2,000	3.4 *	0.9	5.9	200
Uninsured	--				--				--			
Private	70.6	66.1	75.2	5,900	--				95.6 *	92.9	98.2	5,800
Maternal Demographics												
Age												
15-19	1.8 *	0.7	2.9	100	6.6 *	2.3	10.9	100	--			
20-34	63.2	58.8	67.7	5,400	76.1	68.4	83.8	1,600	58.6	53.2	64.0	3,600
35+	35.0	30.6	39.4	3,000	17.4	10.7	24.0	400	41.2	35.8	46.5	2,500
First live birth	45.9	41.1	50.7	3,900	38.3	28.3	48.3	800	48.4	42.8	54.0	3,000
Less than high school education (or GED)	8.3	5.9	10.8	700	27.1	19.0	35.1	500	--			
Unmarried	20.8	17.0	24.6	1,800	54.1	43.9	64.4	1,100	9.2	5.9	12.5	600
Race/Ethnicity												
White	32.9	28.4	37.5	2,600	10.7	4.6	16.8	200	39.8	34.3	45.3	2,300
Hispanic	29.7	25.1	34.2	2,300	73.8	63.4	84.1	1,400	15.0	10.6	19.4	900
Asian/Pacific Islander	35.9	31.0	40.9	2,800	14.6 *	5.0	24.2	300	43.6	37.8	49.3	2,500
Black	1.5 *	0.3	2.7	100	0.9 *	0.2	1.7	<100	--			
Born outside the U.S.	49.0	44.1	53.8	4,200	70.2	61.0	79.3	1,400	41.2	35.6	46.8	2,500
Speaks non-English language at home	38.8	34.0	43.6	3,300	69.6	60.7	78.4	1,400	27.5	22.4	32.6	1,700
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	13.2	9.8	16.7	1,000	48.9	38.0	59.9	900	--			
101-200%	14.9	11.3	18.6	1,200	39.6	29.1	50.2	700	6.8	3.6	10.1	400
> 200%	71.9	67.3	76.4	5,600	11.4 *	1.9	20.9	200	91.4	87.8	95.1	5,300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, San Mateo County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		8,500	29.7	25.1 - 34.2	2,300	1.5 *	0.3 - 2.7	100	32.9	28.4 - 37.5	2,600	35.9	31.0 - 40.9	2,800
Health Status before Pregnancy															
In good to excellent health	94.2	91.4 - 97.0	8,000	94.9 *	91.8 - 98.1	2,200	--			--			89.9 *	82.9 - 96.9	2,600
Chronic conditions															
Diabetes	2.3 *	0.7 - 3.8	200	2.5 *	0.5 - 4.5	<100	--			--			--		
Hypertension	2.6	1.1 - 4.0	200	--			--			2.8 *	0.3 - 5.2	<100	--		
Asthma	9.8	6.6 - 12.9	800	5.4 *	0.6 - 10.1	100	--			13.3	7.3 - 19.2	300	9.9	4.2 - 15.6	300
Nutrition and Weight															
Daily folic acid use, month before pregnancy	46.0	41.2 - 50.8	3,900	39.7	30.6 - 48.8	900	68.0 *	39.2 - 96.9	<100	49.8	41.7 - 58.0	1,300	44.1	35.4 - 52.7	1,300
Overweight before pregnancy†	24.4	20.2 - 28.7	2,000	30.9	22.4 - 39.4	700	--			20.1	13.4 - 26.8	500	20.0	12.5 - 27.5	600
Obese before pregnancy†	16.0	12.4 - 19.7	1,300	28.9	20.2 - 37.5	700	--			16.1	9.5 - 22.6	400	6.9 *	2.6 - 11.3	200
Inadequate weight gain during pregnancy†	19.8	15.9 - 23.7	1,500	23.3	15.2 - 31.5	500	--			19.4	12.6 - 26.2	500	16.9	11.1 - 22.8	400
Excessive weight gain during pregnancy†	40.7	35.9 - 45.5	3,200	40.4	31.2 - 49.5	900	57.9 *	19.7 - 96.1	<100	44.0	35.7 - 52.3	1,100	37.3	28.7 - 45.8	1,000
Food insecurity during pregnancy	8.5	5.7 - 11.4	700	22.9	14.7 - 31.1	500	--			4.7 *	0.7 - 8.7	100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	23.4	19.2 - 27.5	1,900	59.5	50.2 - 68.8	1,400	--			6.0 *	2.0 - 10.0	200	6.6 *	2.4 - 10.9	200
Received CalFresh (food stamps) during pregnancy	8.3	5.7 - 10.9	700	21.3	13.6 - 28.9	500	--			--			--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3 - 3.7	200	--			--			--			--		
Prenatal depressive symptoms†	13.1	9.3 - 16.8	1,100	15.2	8.4 - 22.0	400	--			9.8	4.4 - 15.2	300	14.4	6.4 - 22.3	400
Postpartum depressive symptoms†	9.7	7.1 - 12.4	800	8.1	3.5 - 12.8	200	--			9.5	4.4 - 14.6	200	10.6	5.9 - 15.3	300
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	1.5 *	0.5 - 2.4	100	--			--			--			--		
Moved due to problems paying rent or mortgage	4.0	1.9 - 6.1	300	8.5 *	2.4 - 14.6	200	--			--			--		
Woman or partner lost job	8.0	5.2 - 10.7	700	15.0	7.5 - 22.5	300	--			8.5	3.5 - 13.5	200	2.4 *	0.2 - 4.7	<100
Woman or partner had pay or hours cut back	8.4	5.2 - 11.5	700	16.6	9.6 - 23.6	400	--			3.1 *	0.5 - 5.6	<100	--		
Became separated or divorced	3.2	1.5 - 4.8	300	6.5 *	2.6 - 10.4	100	--			--			--		
Had no practical or emotional support	4.5	2.6 - 6.4	400	7.0	3.0 - 11.1	200	--			--			3.8 *	0.2 - 7.4	100
Often experienced racism over her lifetime	8.0	5.4 - 10.7	700	10.1	5.2 - 14.9	200	--			--			11.4	5.4 - 17.4	300
Substance Use															
Any smoking, 3 months before pregnancy	3.1	1.6 - 4.5	300	3.7 *	0.8 - 6.7	<100	--			3.1 *	0.6 - 5.7	<100	--		
Any smoking, 3rd trimester	0.8 *	0.1 - 1.5	<100	--			--			--			--		
Any smoking, postpartum	0.8 *	0.1 - 1.5	<100	--			--			--			--		
Any binge drinking, 3 months before pregnancy	14.0	10.6 - 17.3	1,200	12.7	6.0 - 19.4	300	--			21.1	14.5 - 27.7	500	7.2	3.3 - 11.2	200
Any alcohol use, 3rd trimester	11.5	8.7 - 14.4	1,000	6.3 *	2.2 - 10.3	100	--			24.1	17.3 - 30.8	600	4.8 *	1.8 - 7.8	100
Any cannabis use during pregnancy	2.0 *	0.7 - 3.2	200	2.2 *	0.2 - 4.2	<100	--			2.7 *	0.5 - 4.8	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	19.9	15.7 - 24.0	1,700	24.8	16.6 - 33.0	600	--			15.6	9.1 - 22.1	400	20.5	12.6 - 28.3	600
Unsure of pregnancy intentions	8.4	5.9 - 10.9	700	9.8	4.9 - 14.7	200	--			6.4 *	2.7 - 10.2	200	9.5	4.8 - 14.1	300
Postpartum birth control use	77.8	73.6 - 81.9	6,400	86.4	79.4 - 93.4	1,900	--			82.1	75.2 - 89.1	2,100	66.4	58.1 - 74.6	1,800
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	88.9	85.5 - 92.3	7,500	88.5	83.1 - 93.9	2,100	--			91.5 *	86.1 - 97.0	2,400	86.5	79.3 - 93.6	2,400
Infant always or often shared bed	29.9	25.3 - 34.5	2,500	33.9	25.3 - 42.5	800	--			11.7	6.1 - 17.4	300	43.7	34.8 - 52.6	1,200
Intended to breastfeed, before birth	95.3	93.1 - 97.4	8,000	--			--			96.9 *	94.5 - 99.3	2,500	94.5 *	91.1 - 97.9	2,700
Intended to breastfeed exclusively, before birth	68.8	64.3 - 73.4	5,800	56.8	47.5 - 66.0	1,300	--			85.8	80.2 - 91.3	2,200	62.4	53.7 - 71.1	1,800
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	94.3	92.0 - 96.6	7,900	92.0 *	86.6 - 97.4	2,100	--			97.1 *	94.8 - 99.4	2,500	94.7 *	90.7 - 98.7	2,600
Exclusive breastfeeding, 1 month after delivery	47.1	42.2 - 52.0	3,900	47.3	37.8 - 56.8	1,100	--			53.8	45.6 - 62.1	1,400	38.3	29.8 - 46.8	1,100
Any breastfeeding, 3 months after delivery	81.7	77.4 - 86.0	5,500	76.4	67.7 - 85.0	1,600	--			84.0	76.9 - 91.0	1,500	83.4	75.6 - 91.1	1,900
Exclusive breastfeeding, 3 months after delivery	36.1	30.8 - 41.4	2,400	27.1	17.3 - 36.9	500	--			48.9	39.2 - 58.6	900	31.4	22.6 - 40.2	700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	79.9	75.8 - 84.1	6,800	72.9	64.3 - 81.5	1,700	--			85.7	80.1 - 91.3	2,200	77.9	69.9 - 86.0	2,200
Initiated prenatal care in 1st trimester	95.3	93.2 - 97.5	7,900	90.9	86.0 - 95.8	2,100	--			--			--		
Received dental care during pregnancy	56.8	52.0 - 61.7	4,800	48.7	39.5 - 57.9	1,100	--			65.7	57.9 - 73.4	1,700	56.0	47.0 - 64.9	1,600
Received a Tdap vaccine during pregnancy	75.3	71.3 - 79.4	6,300	71.5	63.1 - 79.9	1,600	--			79.8	73.2 - 86.4	2,000	76.1	69.2 - 83.1	2,200
Received a flu shot during pregnancy	81.2	77.2 - 85.3	6,800	82.4	75.6 - 89.2	1,900	--			80.2	73.5 - 87.0	2,100	78.2	69.9 - 86.5	2,200
Had a postpartum medical visit	92.9	90.1 - 95.8	7,800	84.8	77.2 - 92.4	2,000	--			95.9 *	91.9 - 99.9	2,500	95.8 *	91.9 - 99.8	2,700
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	17.4	13.5 - 21.2	1,500	39.4	30.3 - 48.5	900	--			5.1 *	1.3 - 9.0	100	7.6 *	1.5 - 13.7	200
Uninsured	6.0	3.7 - 8.3	500	14.5	8.6 - 20.5	300	--			--			--		
Private	74.0	69.6 - 78.4	6,300	40.4	31.2 - 49.7	900	--			88.0	81.9 - 94.1	2,300	90.5 *	84.0 - 97.1	2,600
Prenatal insurance															
Medi-Cal	24.6	20.3 - 28.8	2,100	58.8	49.5 - 68.0	1,400	--			7.8	3.3 - 12.2	200	9.5 *	3.0 - 16.1	300
Uninsured	--			--			--			--			--		
Private	73.2	68.8 - 77.6	6,100	37.6	28.4 - 46.7	900	76.9 *	54.5 - 99.4	<100	90.7	85.5 - 95.9	2,300	89.4 *	82.7 - 96.2	2,500
Had any gaps in insurance during pregnancy	4.8	2.6 - 6.9	400	8.6 *	3.4 - 13.9	200	--			--			4.3 *	0.6 - 8.1	100
Maternal postpartum insurance															
Medi-Cal	22.4	18.2 - 26.7	1,900	53.0	43.8 - 62.2	1,200	23.1 *	0.6 - 45.5	<100	7.1 *	2.8 - 11.4	200	8.4 *	1.8 - 14.9	200
Uninsured	4.3	2.6 - 6.0	400	10.0	5.0 - 15.0	200	--			--			1.5 *	0.3 - 2.8	<100
Private	71.7	67.2 - 76.2	6,000	33.2	24.5 - 41.9	800	74.3 *	50.1 - 98.5	<100	89.5	84.2 - 94.9	2,300	90.1 *	83.5 - 96.7	2,600
Infant health insurance															
Medi-Cal	27.7	23.3 - 32.2	2,300	68.0	59.5 - 76.5	1,600	--			8.3	3.8 - 12.9	200	9.9 *	3.3 - 16.5	300
Uninsured	--			--			--			--			--		
Private	70.6	66.1 - 75.2	5,900	31.0	22.6 - 39.5	700	73.0 *	46.9 - 99.1	<100	89.5	84.1 - 94.9	2,300	89.0 *	82.3 - 95.7	2,500
Maternal Demographics															
Age															
15-19	1.8 *	0.7 - 2.9	100	5.4 *	1.8 - 9.1	100	--			--			--		
20-34	63.2	58.8 - 67.7	5,400	70.0	62.0 - 77.9	1,600	--			55.8	47.8 - 63.9	1,500	64.6	56.8 - 72.4	1,800
35+	35.0	30.6 - 39.4	3,000	24.6	17.2 - 32.0	600	--			44.2	36.1 - 52.2	1,200	35.4	27.6 - 43.2	1,000
First live birth	45.9	41.1 - 50.7	3,900	35.4	26.6 - 44.1	800	--			51.2	43.1 - 59.4	1,300	49.9	41.1 - 58.7	1,400
Less than high school education (or GED)	8.3	5.9 - 10.8	700	24.3	17.0 - 31.6	600	--			--			--		
Unmarried	20.8	17.0 - 24.6	1,800	47.4	38.2 - 56.7	1,100	34.1 *	4.0 - 64.3	<100	10.6	5.8 - 15.4	300	9.5	4.9 - 14.0	300
Born outside the U.S.	49.0	44.1 - 53.8	4,200	58.4	49.1 - 67.7	1,400	--			22.1	15.2 - 29.0	600	64.8	56.6 - 73.0	1,800
Speaks non-English language at home	38.8	34.0 - 43.6	3,300	56.9	47.7 - 66.1	1,300	--			12.6	7.2 - 17.9	300	49.5	40.7 - 58.4	1,400
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	13.2	9.8 - 16.7	1,000	33.0	23.8 - 42.2	700	--			7.2 *	2.2 - 12.3	200	--		
101-200%	14.9	11.3 - 18.6	1,200	37.3	27.6 - 47.1	700	--			4.6 *	1.5 - 7.6	100	6.7 *	2.4 - 11.0	200
> 200%	71.9	67.3 - 76.4	5,600	29.7	21.2 - 38.1	600	--			88.2	82.5 - 93.9	2,200	89.7	84.2 - 95.2	2,500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, San Mateo County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		8,500	45.9	41.1 - 50.7	3,900	54.1	49.3 - 58.9	4,600
Health Status before Pregnancy									
In good to excellent health	94.2	91.4 - 97.0	8,000	94.3 *	89.4 - 99.3	3,700	94.1	91.2 - 97.0	4,300
Chronic conditions									
Diabetes	2.3 *	0.7 - 3.8	200	--			3.6 *	0.8 - 6.3	200
Hypertension	2.6	1.1 - 4.0	200	3.8 *	1.2 - 6.3	100	--		
Asthma	9.8	6.6 - 12.9	800	10.8	6.2 - 15.4	400	8.9	4.6 - 13.2	400
Nutrition and Weight									
Daily folic acid use, month before pregnancy	46.0	41.2 - 50.8	3,900	51.8	44.7 - 58.8	2,000	41.0	34.5 - 47.5	1,900
Overweight before pregnancy†	24.4	20.2 - 28.7	2,000	20.5	14.6 - 26.3	800	27.8	21.7 - 33.8	1,300
Obese before pregnancy†	16.0	12.4 - 19.7	1,300	13.5	8.8 - 18.2	500	18.2	12.8 - 23.6	800
Inadequate weight gain during pregnancy†	19.8	15.9 - 23.7	1,500	17.8	12.9 - 22.8	600	21.4	15.7 - 27.1	900
Excessive weight gain during pregnancy†	40.7	35.9 - 45.5	3,200	38.9	32.1 - 45.8	1,300	42.1	35.5 - 48.8	1,800
Food insecurity during pregnancy	8.5	5.7 - 11.4	700	4.6 *	1.7 - 7.6	200	11.9	7.3 - 16.5	500
Nutrition Program Participation									
Participated in WIC during pregnancy	23.4	19.2 - 27.5	1,900	15.4	10.2 - 20.5	600	30.0	23.9 - 36.1	1,300
Received CalFresh (food stamps) during pregnancy	8.3	5.7 - 10.9	700	4.5 *	1.7 - 7.4	200	11.5	7.4 - 15.7	500
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	2.0 *	0.3 - 3.7	200	--			--		
Prenatal depressive symptoms†	13.1	9.3 - 16.8	1,100	13.5	7.4 - 19.6	500	12.8	8.2 - 17.3	600
Postpartum depressive symptoms†	9.7	7.1 - 12.4	800	12.3	7.7 - 16.8	500	7.6	4.6 - 10.5	300
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	1.5 *	0.5 - 2.4	100	--			2.0 *	0.4 - 3.6	<100
Moved due to problems paying rent or mortgage	4.0	1.9 - 6.1	300	3.9 *	1.1 - 6.7	100	4.0 *	1.0 - 7.1	200
Woman or partner lost job	8.0	5.2 - 10.7	700	5.9	2.8 - 9.0	200	9.7	5.3 - 14.1	400
Woman or partner had pay or hours cut back	8.4	5.2 - 11.5	700	9.3	4.1 - 14.5	400	7.6	3.8 - 11.4	300
Became separated or divorced	3.2	1.5 - 4.8	300	2.8 *	0.6 - 4.9	100	3.5 *	1.0 - 5.9	200
Had no practical or emotional support	4.5	2.6 - 6.4	400	3.3 *	0.7 - 5.8	100	5.5	2.7 - 8.2	300
Substance Use									
Any smoking, 3 months before pregnancy	3.1	1.6 - 4.5	300	3.9 *	1.6 - 6.3	200	2.3 *	0.5 - 4.1	100
Any smoking, 3rd trimester	0.8 *	0.1 - 1.5	<100	--			--		
Any smoking, postpartum	0.8 *	0.1 - 1.5	<100	--			--		
Any binge drinking, 3 months before pregnancy	14.0	10.6 - 17.3	1,200	17.4	12.1 - 22.6	700	11.1	6.8 - 15.4	500
Any alcohol use, 3rd trimester	11.5	8.7 - 14.4	1,000	10.9	6.8 - 14.9	400	12.1	8.1 - 16.1	600
Any cannabis use during pregnancy	2.0 *	0.7 - 3.2	200	3.0 *	0.6 - 5.3	100	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	19.9	15.7 - 24.0	1,700	20.8	15.0 - 26.5	800	19.1	13.2 - 25.0	900
Unsure of pregnancy intentions	8.4	5.9 - 10.9	700	8.0	4.5 - 11.5	300	8.7	5.2 - 12.2	400
Postpartum birth control use	77.8	73.6 - 81.9	6,400	75.5	69.5 - 81.6	2,900	79.7	73.9 - 85.4	3,500
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	88.9	85.5 - 92.3	7,500	86.9	81.3 - 92.6	3,400	90.6	86.6 - 94.5	4,100
Infant always or often shared bed	29.9	25.3 - 34.5	2,500	27.9	21.1 - 34.8	1,100	31.6	25.3 - 37.8	1,400
Intended to breastfeed, before birth	95.3	93.1 - 97.4	8,000	96.4 *	94.0 - 98.8	3,700	94.3	91.0 - 97.6	4,300
Intended to breastfeed exclusively, before birth	68.8	64.3 - 73.4	5,800	75.4	69.2 - 81.7	2,900	63.2	56.7 - 69.7	2,900
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	94.3	92.0 - 96.6	7,900	95.5 *	92.6 - 98.4	3,700	93.2	89.7 - 96.7	4,200
Exclusive breastfeeding, 1 month after delivery	47.1	42.2 - 52.0	3,900	43.4	36.4 - 50.4	1,700	50.3	43.4 - 57.1	2,200
Any breastfeeding, 3 months after delivery	81.7	77.4 - 86.0	5,500	82.0	75.7 - 88.2	2,600	81.4	75.4 - 87.3	2,900
Exclusive breastfeeding, 3 months after delivery	36.1	30.8 - 41.4	2,400	31.6	24.4 - 38.8	1,000	40.1	32.5 - 47.7	1,400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, San Mateo County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	San Mateo County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	79.9	75.8 - 84.1	6,800	78.3	72.2 - 84.5	3,100	81.3	75.8 - 86.9	3,700
Initiated prenatal care in 1st trimester	95.3	93.2 - 97.5	7,900	96.9 *	94.8 - 99.1	3,700	94.0	90.5 - 97.5	4,200
Received dental care during pregnancy	56.8	52.0 - 61.7	4,800	61.2	54.0 - 68.3	2,400	53.1	46.5 - 59.8	2,400
Received a Tdap vaccine during pregnancy	75.3	71.3 - 79.4	6,300	78.9	73.5 - 84.3	3,000	72.3	66.5 - 78.2	3,300
Received a flu shot during pregnancy	81.2	77.2 - 85.3	6,800	81.8	75.8 - 87.7	3,100	80.8	75.3 - 86.3	3,700
Had a postpartum medical visit	92.9	90.1 - 95.8	7,800	95.5 *	92.4 - 98.6	3,700	90.7	86.2 - 95.3	4,100
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	17.4	13.5 - 21.2	1,500	12.9	7.5 - 18.4	500	21.1	15.6 - 26.6	1,000
Uninsured	6.0	3.7 - 8.3	500	7.1	3.4 - 10.9	300	5.0	2.3 - 7.8	200
Private	74.0	69.6 - 78.4	6,300	78.4	72.0 - 84.8	3,000	70.2	64.2 - 76.3	3,200
Prenatal insurance									
Medi-Cal	24.6	20.3 - 28.8	2,100	20.6	14.4 - 26.7	800	27.9	22.0 - 33.9	1,300
Uninsured	--			--			--		
Private	73.2	68.8 - 77.6	6,100	77.4	71.0 - 83.8	3,000	69.7	63.6 - 75.7	3,200
Had any gaps in insurance during pregnancy	4.8	2.6 - 6.9	400	5.5 *	2.2 - 8.8	200	4.1 *	1.3 - 6.9	200
Maternal postpartum insurance									
Medi-Cal	22.4	18.2 - 26.7	1,900	18.2	12.2 - 24.2	700	26.0	20.0 - 32.1	1,200
Uninsured	4.3	2.6 - 6.0	400	4.5	1.9 - 7.2	200	4.2	2.0 - 6.4	200
Private	71.7	67.2 - 76.2	6,000	75.7	69.3 - 82.2	2,900	68.3	62.1 - 74.5	3,100
Infant health insurance									
Medi-Cal	27.7	23.3 - 32.2	2,300	21.3	15.1 - 27.5	800	33.1	26.8 - 39.4	1,500
Uninsured	--			--			--		
Private	70.6	66.1 - 75.2	5,900	76.3	69.8 - 82.8	2,900	65.9	59.6 - 72.2	3,000
Maternal Demographics									
Age									
15-19	1.8 *	0.7 - 2.9	100	3.8 *	1.5 - 6.2	100	--		
20-34	63.2	58.8 - 67.7	5,400	71.1	65.2 - 77.0	2,800	56.6	50.1 - 63.0	2,600
35+	35.0	30.6 - 39.4	3,000	25.0	19.5 - 30.6	1,000	43.4	37.0 - 49.9	2,000
Less than high school education (or GED)	8.3	5.9 - 10.8	700	6.6	3.3 - 10.0	300	9.8	6.3 - 13.3	400
Unmarried	20.8	17.0 - 24.6	1,800	24.1	18.3 - 29.9	900	18.1	13.1 - 23.0	800
Race/Ethnicity									
White	32.9	28.4 - 37.5	2,600	36.3	29.6 - 43.0	1,300	30.0	23.8 - 36.1	1,300
Hispanic	29.7	25.1 - 34.2	2,300	22.6	16.5 - 28.7	800	35.8	29.2 - 42.4	1,500
Asian/Pacific Islander	35.9	31.0 - 40.9	2,800	38.6	31.3 - 45.9	1,400	33.6	27.0 - 40.2	1,400
Black	1.5 *	0.3 - 2.7	100	--			0.7 *	0.1 - 1.2	<100
Born outside the U.S.	49.0	44.1 - 53.8	4,200	45.6	38.5 - 52.8	1,800	51.8	45.1 - 58.4	2,400
Speaks non-English language at home	38.8	34.0 - 43.6	3,300	32.7	25.8 - 39.7	1,300	43.9	37.3 - 50.5	2,000
Lives in a high poverty neighborhood†	--			--			--		
Income as a percent of the Federal Poverty Guideline									
0-100%	13.2	9.8 - 16.7	1,000	9.1	5.0 - 13.1	300	16.5	11.3 - 21.8	700
101-200%	14.9	11.3 - 18.6	1,200	10.2	6.0 - 14.5	400	18.7	13.2 - 24.2	800
> 200%	71.9	67.3 - 76.4	5,600	80.7	75.2 - 86.3	2,800	64.7	58.1 - 71.4	2,800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (San Mateo County, n=368).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of San Mateo County was 581. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Barbara County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	5.9	4.0 - 7.8	300	74.4	70.0 - 78.7	4,000	19.7	15.7 - 23.8	1,100
Health Status before Pregnancy												
In good to excellent health	88.2	83.8 - 92.6	4,700	83.8 *	69.5 - 98.1	300	86.4	80.7 - 92.1	3,400	96.3 *	92.9 - 99.7	1,000
Chronic conditions												
Diabetes	2.9	1.3 - 4.5	200	--			3.6	1.5 - 5.7	100	--		
Hypertension	3.2 *	1.2 - 5.3	200	--			3.9 *	1.2 - 6.5	100	--		
Asthma	6.3	3.7 - 8.8	300	--			5.9	2.9 - 8.9	200	8.2 *	1.9 - 14.6	<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	16.9 *	5.6 - 28.1	<100	31.6	25.5 - 37.7	1,200	47.2	35.6 - 58.7	500
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	17.9 *	4.9 - 30.9	<100	31.2	25.3 - 37.2	1,200	27.4	17.1 - 37.6	300
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	12.0 *	2.6 - 21.3	<100	26.2	21.2 - 31.1	1,000	26.2	16.2 - 36.2	300
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	25.4	12.2 - 38.6	<100	24.4	19.7 - 29.1	900	35.2	23.7 - 46.7	300
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	38.4	22.1 - 54.7	100	41.4	36.1 - 46.7	1,500	36.0	24.4 - 47.5	300
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	24.7	11.2 - 38.1	<100	18.3	14.3 - 22.2	700	9.8 *	1.6 - 17.9	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	--			53.8	47.9 - 59.7	2,100	46.7	34.6 - 58.7	400
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	16.2 *	5.0 - 27.5	<100	23.7	17.8 - 29.5	900	22.6	12.0 - 33.3	200
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	27.7 *	9.2 - 46.2	<100	7.0	4.0 - 10.1	300	7.9 *	0.8 - 14.9	<100
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	34.9	18.9 - 50.9	100	18.6	14.4 - 22.7	700	15.6	6.8 - 24.4	200
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	23.9 *	9.3 - 38.4	<100	11.8	8.4 - 15.2	500	14.3 *	5.1 - 23.4	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	--			5.2	2.8 - 7.6	200	--		
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	--			5.8	3.4 - 8.2	200	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	--			13.3	9.8 - 16.7	500	15.1 *	6.2 - 24.0	200
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	--			12.4	9.1 - 15.8	500	12.0 *	3.5 - 20.4	100
Became separated or divorced	7.8	5.5 - 10.1	400	20.0 *	7.1 - 32.9	<100	7.2	4.6 - 9.7	300	6.7 *	1.6 - 11.9	<100
Had no practical or emotional support	3.7	2.2 - 5.2	200	--			3.8	2.1 - 5.6	200	--		
Substance Use												
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	--			6.6	3.4 - 9.8	300	--		
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			1.9 *	0.3 - 3.6	<100	--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	--			13.4	9.4 - 17.3	500	17.8	9.5 - 26.2	200
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	--			7.6	4.9 - 10.2	300	12.6 *	4.4 - 20.8	100
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	--			2.4 *	0.7 - 4.2	<100	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	54.6	38.6 - 70.6	200	30.3	24.1 - 36.5	1,200	28.7	17.7 - 39.7	300
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	--			14.6	10.5 - 18.7	600	8.1 *	2.9 - 13.3	<100
Postpartum birth control use	86.1	82.8 - 89.3	4,500	75.4 *	61.0 - 89.9	200	87.8	84.2 - 91.3	3,400	82.8	74.5 - 91.1	900
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	71.4	56.2 - 86.6	200	80.6	76.4 - 84.8	3,200	85.1	76.9 - 93.4	900
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	54.3	37.0 - 71.6	200	41.8	35.7 - 47.9	1,600	40.1	28.7 - 51.6	400
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	90.4 *	81.3 - 99.4	300	94.0	91.4 - 96.5	3,700	--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	52.1	35.6 - 68.6	200	59.4	53.2 - 65.5	2,300	75.2	65.7 - 84.7	800
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	83.9 *	69.1 - 98.8	200	90.2	86.6 - 93.9	3,500	93.6 *	88.9 - 98.4	1,000
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	44.9	28.1 - 61.7	100	49.0	43.5 - 54.5	1,800	38.5	27.1 - 50.0	400
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	62.9	46.0 - 79.9	200	78.9	73.5 - 84.3	2,300	82.8	73.2 - 92.4	700
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	27.6	12.0 - 43.2	<100	38.7	32.9 - 44.6	1,100	36.5	23.9 - 49.0	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	69.1	64.7	73.5	3,700	57.2	41.1	73.3	200	69.5	64.5	74.4	2,700	71.3	60.4	82.3	800
Initiated prenatal care in 1st trimester	89.3	86.6	91.9	4,600	75.9	61.8	90.0	200	89.1	85.9	92.2	3,500	93.6 *	88.5	98.7	1,000
Received dental care during pregnancy	49.5	44.5	54.6	2,600	44.8	28.3	61.3	100	49.1	43.2	55.0	2,000	52.6	40.9	64.4	600
Received a Tdap vaccine during pregnancy	58.0	52.8	63.1	3,100	49.2	32.4	65.9	200	58.6	52.5	64.7	2,300	58.3	46.7	70.0	600
Received a flu shot during pregnancy	66.0	60.9	71.2	3,400	71.2	56.0	86.4	200	65.8	59.6	72.0	2,600	65.5	54.9	76.2	700
Had a postpartum medical visit	92.4	90.2	94.7	4,900	--				91.8	89.1	94.5	3,600	95.4 *	91.1	99.6	1,000
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	42.2	37.0	47.3	2,200	74.6	61.0	88.2	200	43.4	37.3	49.5	1,700	28.2	18.1	38.3	300
Uninsured	15.7	12.4	19.0	800	21.1	9.2	33.0	<100	14.2	11.0	17.4	600	19.6	9.1	30.2	200
Private	38.8	34.0	43.6	2,100	--				38.7	33.1	44.3	1,500	49.4	37.8	61.0	500
Prenatal insurance																
Medi-Cal	62.6	57.8	67.4	3,300	--				63.8	58.3	69.3	2,500	47.5	35.9	59.2	500
Uninsured	1.3 *	0.3	2.3	<100	--				1.6 *	0.3	3.0	<100	--			
Private	33.1	28.4	37.8	1,800	--				31.4	26.1	36.7	1,200	49.1	37.5	60.7	500
Had any gaps in insurance during pregnancy	8.1	5.5	10.6	400	--				8.1	5.3	10.9	300	7.4 *	0.6	14.2	<100
Maternal postpartum insurance																
Medi-Cal	50.3	45.3	55.4	2,700	--				52.9	47.1	58.7	2,100	29.0	18.8	39.2	300
Uninsured	13.7	10.4	16.9	700	--				12.4	9.3	15.5	500	19.9	9.3	30.5	200
Private	33.1	28.5	37.8	1,700	--				31.6	26.3	36.9	1,200	48.2	36.7	59.8	500
Infant health insurance																
Medi-Cal	67.8	63.2	72.3	3,500	--				69.8	64.6	74.9	2,700	53.3	41.7	64.8	600
Uninsured	1.7 *	0.3	3.0	<100	--				1.7 *	0.2	3.1	<100	--			
Private	27.8	23.5	32.2	1,500	--				25.6	20.8	30.5	1,000	43.9	32.4	55.4	500
Maternal Demographics																
First live birth	36.3	31.6	40.9	1,900	88.6 *	79.0	98.2	300	34.9	29.5	40.2	1,400	26.1	16.4	35.8	300
Less than high school education (or GED)	25.9	21.1	30.7	1,400	49.5	32.8	66.2	200	24.2	18.4	29.9	1,000	25.3	14.9	35.6	300
Unmarried	45.3	40.1	50.4	2,400	88.1 *	78.1	98.1	300	45.3	39.2	51.3	1,800	33.1	21.6	44.6	400
Race/Ethnicity																
White	27.8	23.4	32.1	1,500	--				27.4	22.5	32.4	1,100	36.7	25.5	47.9	400
Hispanic	66.9	62.3	71.4	3,500	--				67.7	62.5	72.9	2,700	54.4	42.8	65.9	600
Asian/Pacific Islander	4.2	2.4	6.0	200	--				3.7	1.9	5.5	100	7.5 *	1.6	13.5	<100
Black	1.1 *	0.3	1.8	<100	--				1.0 *	0.2	1.9	<100	--			
Born outside the U.S.	42.5	37.5	47.5	2,300	51.0	34.5	67.6	200	39.2	33.4	45.0	1,600	52.6	41.0	64.1	600
Speaks non-English language at home	39.0	34.0	44.0	2,100	42.9	27.1	58.7	100	39.2	33.4	45.1	1,600	37.0	25.5	48.5	400
Lives in a high poverty neighborhood†	7.8	3.5	12.1	400	--				9.0 *	3.3	14.6	300	4.0 *	0.4	7.6	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Barbara County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	25.9	21.1 - 30.7	1,400	16.4	12.9 - 20.0	900	30.9	26.1 - 35.6	1,600	26.9	22.7 - 31.0	1,400
Health Status before Pregnancy															
In good to excellent health	88.2	83.8 - 92.6	4,700	78.3 *	64.6 - 92.1	1,100	85.4	77.5 - 93.2	700	90.8	85.8 - 95.8	1,500	96.3 *	93.5 - 99.1	1,400
Chronic conditions															
Diabetes	2.9	1.3 - 4.5	200	4.4 *	1.5 - 7.3	<100	--			2.7 *	0.3 - 5.0	<100	--		
Hypertension	3.2 *	1.2 - 5.3	200	--			--			5.7 *	1.0 - 10.4	<100	--		
Asthma	6.3	3.7 - 8.8	300	2.8 *	0.3 - 5.4	<100	--			9.9 *	3.7 - 16.1	200	5.0 *	0.8 - 9.1	<100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	27.7	14.6 - 40.9	400	24.2	13.8 - 34.7	200	31.6	23.0 - 40.2	500	48.2	39.7 - 56.6	700
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	39.9	27.8 - 52.0	500	31.2	20.5 - 41.9	300	30.6	22.1 - 39.0	500	18.5	11.9 - 25.2	300
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	27.5	18.8 - 36.3	400	22.4	12.2 - 32.6	200	34.5	25.7 - 43.3	600	12.2	6.8 - 17.6	200
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	25.3	17.5 - 33.1	300	28.8	17.7 - 39.9	200	26.4	17.8 - 35.1	400	26.3	18.9 - 33.8	400
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	34.4	26.8 - 42.1	400	33.2	22.4 - 43.9	300	49.9	40.3 - 59.6	700	38.6	30.3 - 46.9	500
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	27.9	19.0 - 36.8	400	23.9	14.0 - 33.8	200	14.9	9.0 - 20.8	200	4.2 *	1.1 - 7.3	<100
Nutrition Program Participation															
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	92.0 *	86.9 - 97.2	1,300	75.8	64.3 - 87.3	600	45.2	35.7 - 54.6	700	15.5	9.5 - 21.4	200
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	43.9	31.9 - 55.8	600	27.4	16.9 - 38.0	200	20.1	13.0 - 27.1	300	4.2 *	1.4 - 7.1	<100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	6.2 *	2.3 - 10.1	<100	10.0 *	1.4 - 18.5	<100	14.1	7.0 - 21.2	200	--		
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	16.4	10.2 - 22.5	200	29.9	18.9 - 40.8	300	17.2	10.4 - 24.0	300	16.2	9.8 - 22.7	200
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	12.2	5.6 - 18.8	200	8.6 *	2.4 - 14.9	<100	15.0	8.5 - 21.5	200	13.8	7.6 - 20.0	200
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	6.4 *	2.6 - 10.2	<100	4.4 *	0.5 - 8.2	<100	6.2 *	1.4 - 10.9	<100	--		
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	5.9 *	1.8 - 10.1	<100	--			7.7	3.4 - 11.9	100	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	19.0	11.1 - 26.9	200	10.3 *	3.8 - 16.9	<100	16.2	9.8 - 22.5	300	6.0 *	2.1 - 9.9	<100
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	13.6	6.4 - 20.8	200	13.6	6.3 - 20.8	100	14.5	8.5 - 20.4	200	7.1	2.9 - 11.2	100
Became separated or divorced	7.8	5.5 - 10.1	400	11.1	5.7 - 16.6	100	8.6 *	3.0 - 14.1	<100	8.7	4.3 - 13.2	100	3.5 *	0.3 - 6.7	<100
Had no practical or emotional support	3.7	2.2 - 5.2	200	7.7	3.6 - 11.9	100	4.0 *	0.5 - 7.5	<100	2.5 *	0.1 - 4.8	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	--			--			14.6	7.0 - 22.2	200	2.8 *	0.3 - 5.3	<100
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			--			--			--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	4.5 *	1.1 - 7.9	<100	12.5 *	4.4 - 20.6	100	20.5	12.7 - 28.3	300	16.7	10.3 - 23.1	200
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	--			--			6.7 *	1.6 - 11.8	100	19.6	13.0 - 26.2	300
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	--			--			5.6 *	1.5 - 9.8	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	31.3	18.2 - 44.5	400	40.9	29.2 - 52.5	400	35.6	26.4 - 44.8	600	21.5	14.5 - 28.4	300
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	11.7	6.3 - 17.1	200	21.2	12.1 - 30.4	200	12.8	5.9 - 19.7	200	8.3	3.5 - 13.2	100
Postpartum birth control use	86.1	82.8 - 89.3	4,500	93.0	89.2 - 96.8	1,200	89.1 *	81.1 - 97.2	800	82.3	75.5 - 89.0	1,300	81.6	75.0 - 88.3	1,100
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	82.2	75.8 - 88.7	1,100	77.9	67.7 - 88.2	600	78.4	71.1 - 85.7	1,300	84.7	78.7 - 90.7	1,200
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	62.6	52.5 - 72.8	800	39.0	27.3 - 50.7	300	37.8	28.6 - 47.0	600	30.2	22.5 - 37.9	400
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	91.6	87.4 - 95.8	1,300	89.1 *	80.6 - 97.5	700	95.7 *	92.7 - 98.8	1,500	--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	44.9	34.1 - 55.6	600	57.5	45.7 - 69.2	500	64.7	55.5 - 73.8	1,000	78.6	71.5 - 85.6	1,100
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	93.5 *	89.7 - 97.4	1,300	80.5	69.7 - 91.3	700	85.7	79.0 - 92.4	1,400	--		
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	40.6	32.0 - 49.1	500	41.4	29.9 - 52.9	300	44.3	34.9 - 53.7	700	57.9	49.4 - 66.5	800
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	79.0	71.0 - 87.0	900	63.3	49.7 - 77.0	400	73.7	64.1 - 83.3	900	93.2 *	88.6 - 97.8	1,000
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	29.8	21.6 - 38.0	300	26.8	15.5 - 38.1	200	35.9	25.6 - 46.3	400	52.4	42.7 - 62.0	600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	69.1	64.7 - 73.5	3,700	61.2	51.1 - 71.3	800	61.7	50.8 - 72.7	500	72.3	64.0 - 80.7	1,200	76.2	69.1 - 83.3	1,100
Initiated prenatal care in 1st trimester	89.3	86.6 - 91.9	4,600	82.2	75.5 - 88.9	1,100	91.5 *	86.2 - 96.9	800	91.1	86.3 - 95.8	1,500	92.3 *	87.4 - 97.2	1,300
Received dental care during pregnancy	49.5	44.5 - 54.6	2,600	50.0	38.8 - 61.3	700	36.6	25.7 - 47.5	300	48.1	38.7 - 57.5	800	59.7	51.4 - 68.1	900
Received a Tdap vaccine during pregnancy	58.0	52.8 - 63.1	3,100	45.2	34.4 - 56.0	600	61.0	49.5 - 72.5	500	61.9	52.6 - 71.3	1,000	63.5	55.3 - 71.8	900
Received a flu shot during pregnancy	66.0	60.9 - 71.2	3,400	63.8	50.6 - 77.0	800	72.6	61.9 - 83.2	600	68.5	59.8 - 77.3	1,100	60.1	51.6 - 68.5	800
Had a postpartum medical visit	92.4	90.2 - 94.7	4,900	89.1	84.5 - 93.7	1,200	92.8 *	86.3 - 99.2	800	91.4	86.8 - 96.0	1,500	96.9 *	93.9 - 99.8	1,400
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	42.2	37.0 - 47.3	2,200	60.6	50.2 - 70.9	800	57.8	46.6 - 69.1	500	41.7	32.4 - 51.0	700	15.0	8.8 - 21.2	200
Uninsured	15.7	12.4 - 19.0	800	31.7	22.1 - 41.2	400	23.1	14.3 - 32.0	200	4.2 *	1.1 - 7.2	<100	9.7	4.6 - 14.8	100
Private	38.8	34.0 - 43.6	2,100	7.6 *	3.1 - 12.0	100	14.6	7.2 - 22.0	100	49.2	39.8 - 58.6	800	71.5	63.8 - 79.2	1,000
Prenatal insurance															
Medi-Cal	62.6	57.8 - 67.4	3,300	94.9 *	90.9 - 98.9	1,300	84.8	76.2 - 93.4	700	55.7	46.3 - 65.1	900	26.0	18.7 - 33.2	400
Uninsured	1.3 *	0.3 - 2.3	<100	--			--			--			--		
Private	33.1	28.4 - 37.8	1,800	--			10.7 *	3.1 - 18.3	<100	38.7	29.4 - 48.1	600	69.1	61.3 - 76.9	1,000
Had any gaps in insurance during pregnancy	8.1	5.5 - 10.6	400	5.5 *	2.0 - 8.9	<100	9.9 *	2.9 - 16.8	<100	9.0	3.7 - 14.2	100	8.4	3.5 - 13.4	100
Maternal postpartum insurance															
Medi-Cal	50.3	45.3 - 55.4	2,700	65.9	55.9 - 75.9	900	62.3	50.9 - 73.6	500	56.8	47.4 - 66.1	900	19.6	12.8 - 26.4	300
Uninsured	13.7	10.4 - 16.9	700	29.9	20.4 - 39.4	400	21.9	12.5 - 31.3	200	4.3 *	1.1 - 7.5	<100	4.5 *	0.8 - 8.2	<100
Private	33.1	28.5 - 37.8	1,700	4.2 *	0.6 - 7.9	<100	12.1 *	4.2 - 20.0	100	34.9	25.7 - 44.1	600	72.2	64.5 - 79.8	1,000
Infant health insurance															
Medi-Cal	67.8	63.2 - 72.3	3,500	--			86.9 *	77.9 - 96.0	700	66.6	57.8 - 75.4	1,100	28.0	20.5 - 35.5	400
Uninsured	1.7 *	0.3 - 3.0	<100	--			--			--			--		
Private	27.8	23.5 - 32.2	1,500	--			--			28.4	19.8 - 36.9	500	66.6	58.6 - 74.6	900
Maternal Demographics															
First live birth	36.3	31.6 - 40.9	1,900	16.6	10.7 - 22.6	200	36.3	25.2 - 47.4	300	46.8	37.4 - 56.1	800	44.1	35.8 - 52.4	600
Unmarried	45.3	40.1 - 50.4	2,400	58.5	48.1 - 68.8	800	64.7	53.9 - 75.4	600	46.5	37.1 - 56.0	800	18.7	12.2 - 25.2	300
Race/Ethnicity															
White	27.8	23.4 - 32.1	1,500	--			9.9 *	2.9 - 16.9	<100	31.8	22.8 - 40.8	500	60.8	52.5 - 69.0	900
Hispanic	66.9	62.3 - 71.4	3,500	--			88.2 *	81.0 - 95.5	800	62.4	53.2 - 71.6	1,000	27.1	19.7 - 34.4	400
Asian/Pacific Islander	4.2	2.4 - 6.0	200	--			--			3.4 *	0.9 - 5.9	<100	11.1	5.5 - 16.8	200
Black	1.1 *	0.3 - 1.8	<100	--			--			2.4 *	0.2 - 4.6	<100	--		
Born outside the U.S.	42.5	37.5 - 47.5	2,300	83.8	76.9 - 90.7	1,100	51.7	39.9 - 63.4	400	15.7	9.2 - 22.2	300	27.0	19.4 - 34.6	400
Speaks non-English language at home	39.0	34.0 - 44.0	2,100	83.7	77.0 - 90.4	1,100	48.5	36.9 - 60.1	400	14.5	8.4 - 20.5	200	17.3	11.4 - 23.2	200
Lives in a high poverty neighborhood†	7.8	3.5 - 12.1	400	21.1 *	6.7 - 35.5	300	8.3 *	2.9 - 13.6	<100	2.2 *	0.4 - 4.0	<100	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	38.2	32.8 - 43.7	1,900	73.4	64.3 - 82.5	900	50.1	38.1 - 62.1	400	31.1	21.6 - 40.6	500	7.5	3.3 - 11.7	100
101-200%	23.8	19.7 - 27.9	1,200	22.5	14.2 - 30.8	300	40.7	29.0 - 52.4	300	26.9	19.0 - 34.9	400	12.4	6.5 - 18.2	200
> 200%	38.0	32.9 - 43.1	1,800	4.1 *	0.2 - 8.0	<100	9.2 *	1.4 - 17.0	<100	42.0	32.1 - 51.9	600	80.1	73.3 - 87.0	1,100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Barbara County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	76.3	72.1 - 80.5	3,900	23.7	19.5 - 27.9	1,200
Health Status before Pregnancy									
In good to excellent health	88.2	83.8 - 92.6	4,700	85.8	80.1 - 91.6	3,400	96.7 *	93.7 - 99.7	1,200
Chronic conditions									
Diabetes	2.9	1.3 - 4.5	200	3.4 *	1.3 - 5.4	100	--		
Hypertension	3.2 *	1.2 - 5.3	200	4.1 *	1.4 - 6.9	200	--		
Asthma	6.3	3.7 - 8.8	300	4.9	2.6 - 7.2	200	10.4 *	2.4 - 18.4	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	33.9	27.8 - 40.0	1,300	34.7	24.8 - 44.6	400
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	30.5	24.4 - 36.6	1,200	27.8	19.2 - 36.5	300
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	26.8	21.8 - 31.9	1,100	21.6	13.3 - 29.9	300
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	27.6	22.5 - 32.7	1,000	22.3	14.1 - 30.5	300
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	38.1	32.8 - 43.3	1,400	45.3	35.0 - 55.7	500
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	17.0	13.0 - 21.0	700	16.6	9.3 - 23.9	200
Nutrition Program Participation									
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	56.1	50.1 - 62.0	2,100	49.4	39.1 - 59.8	600
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	23.0	16.9 - 29.1	900	21.7	14.0 - 29.4	300
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	6.4	3.6 - 9.3	200	12.9 *	5.0 - 20.8	200
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	20.0	15.6 - 24.5	800	16.6	9.4 - 23.8	200
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	12.7	8.9 - 16.5	500	11.8	5.1 - 18.4	100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	3.9	1.7 - 6.1	100	4.7 *	1.2 - 8.2	<100
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	3.7	1.9 - 5.4	100	8.5 *	2.8 - 14.3	100
Woman or partner lost job	13.2	10.1 - 16.4	700	12.9	9.2 - 16.5	500	13.9	6.9 - 20.9	200
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	11.9	8.4 - 15.4	500	13.4	6.6 - 20.2	200
Became separated or divorced	7.8	5.5 - 10.1	400	6.0	3.8 - 8.2	200	13.7	7.0 - 20.5	200
Had no practical or emotional support	3.7	2.2 - 5.2	200	4.1	2.3 - 5.9	200	--		
Substance Use									
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	5.3	2.5 - 8.1	200	9.4 *	2.0 - 16.9	100
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	2.1 *	0.4 - 3.8	<100	--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	11.0	7.7 - 14.3	400	24.1	14.6 - 33.7	300
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	8.5	5.5 - 11.6	300	6.5 *	1.3 - 11.7	<100
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	1.6 *	0.3 - 3.0	<100	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	31.9	25.5 - 38.2	1,200	31.6	22.5 - 40.8	400
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	11.2	7.7 - 14.7	400	18.3	9.9 - 26.7	200
Postpartum birth control use	86.1	82.8 - 89.3	4,500	84.9	80.9 - 88.8	3,200	89.3	83.1 - 95.4	1,100
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	81.6	77.4 - 85.8	3,200	77.4	69.3 - 85.6	900
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	44.3	38.1 - 50.5	1,700	35.4	25.4 - 45.4	400
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	94.7	92.2 - 97.1	3,600	93.4 *	89.3 - 97.6	1,100
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	63.0	56.8 - 69.1	2,400	61.8	51.7 - 71.8	700
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	90.3	86.6 - 94.0	3,500	90.8	85.8 - 95.9	1,100
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	46.9	41.4 - 52.4	1,700	46.2	35.8 - 56.6	500
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	78.5	73.1 - 84.0	2,400	78.2	69.5 - 86.9	700
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	37.5	31.6 - 43.4	1,100	37.0	25.9 - 48.2	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	69.1	64.7 - 73.5	3,700	66.1	60.8 - 71.5	2,600	76.3	68.4 - 84.1	900
Initiated prenatal care in 1st trimester	89.3	86.6 - 91.9	4,600	89.5	86.5 - 92.4	3,400	87.3	80.6 - 94.0	1,100
Received dental care during pregnancy	49.5	44.5 - 54.6	2,600	51.8	45.8 - 57.7	2,000	44.6	34.4 - 54.9	500
Received a Tdap vaccine during pregnancy	58.0	52.8 - 63.1	3,100	56.6	50.6 - 62.7	2,200	62.6	52.5 - 72.8	800
Received a flu shot during pregnancy	66.0	60.9 - 71.2	3,400	66.1	59.9 - 72.4	2,600	67.3	57.6 - 77.1	800
Had a postpartum medical visit	92.4	90.2 - 94.7	4,900	93.1	90.6 - 95.5	3,600	91.3 *	85.8 - 96.7	1,100
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	42.2	37.0 - 47.3	2,200	43.7	37.6 - 49.8	1,700	39.1	29.0 - 49.2	500
Uninsured	15.7	12.4 - 19.0	800	16.6	12.7 - 20.5	700	8.8	4.1 - 13.4	100
Private	38.8	34.0 - 43.6	2,100	38.9	33.2 - 44.5	1,500	40.5	30.5 - 50.6	500
Prenatal insurance									
Medi-Cal	62.6	57.8 - 67.4	3,300	64.0	58.5 - 69.6	2,500	54.5	44.3 - 64.7	700
Uninsured	1.3 *	0.3 - 2.3	<100	1.6 *	0.3 - 3.0	<100	--		
Private	33.1	28.4 - 37.8	1,800	33.7	28.2 - 39.2	1,300	34.5	24.6 - 44.5	400
Had any gaps in insurance during pregnancy	8.1	5.5 - 10.6	400	7.8	4.8 - 10.7	300	9.0 *	3.6 - 14.4	100
Maternal postpartum insurance									
Medi-Cal	50.3	45.3 - 55.4	2,700	49.8	43.8 - 55.8	1,900	52.1	41.9 - 62.3	600
Uninsured	13.7	10.4 - 16.9	700	15.0	11.1 - 18.9	600	6.3 *	2.3 - 10.3	<100
Private	33.1	28.5 - 37.8	1,700	34.8	29.3 - 40.2	1,300	31.2	21.4 - 40.9	400
Infant health insurance									
Medi-Cal	67.8	63.2 - 72.3	3,500	69.3	64.1 - 74.5	2,700	60.0	49.8 - 70.2	700
Uninsured	1.7 *	0.3 - 3.0	<100	1.8 *	0.2 - 3.4	<100	--		
Private	27.8	23.5 - 32.2	1,500	28.6	23.5 - 33.7	1,100	27.8	18.2 - 37.4	300
Maternal Demographics									
Age									
15-19	5.9	4.0 - 7.8	300	6.9	4.5 - 9.4	300	3.5 *	0.7 - 6.4	<100
20-34	74.4	70.0 - 78.7	4,000	73.9	68.8 - 78.9	2,900	77.9	69.6 - 86.3	1,000
35+	19.7	15.7 - 23.8	1,100	19.2	14.5 - 23.9	800	18.5	10.4 - 26.6	200
First live birth	36.3	31.6 - 40.9	1,900	39.8	34.2 - 45.4	1,600	26.4	18.1 - 34.6	300
Less than high school education (or GED)	25.9	21.1 - 30.7	1,400	28.5	22.6 - 34.4	1,100	14.8	8.6 - 21.1	200
Unmarried	45.3	40.1 - 50.4	2,400	44.5	38.3 - 50.6	1,700	47.0	36.8 - 57.2	600
Race/Ethnicity									
White	27.8	23.4 - 32.1	1,500	26.4	21.4 - 31.4	1,000	35.1	25.4 - 44.8	400
Hispanic	66.9	62.3 - 71.4	3,500	69.7	64.5 - 74.9	2,700	54.7	44.6 - 64.8	600
Asian/Pacific Islander	4.2	2.4 - 6.0	200	3.3	1.7 - 4.9	100	7.2 *	1.4 - 13.1	<100
Black	1.1 *	0.3 - 1.8	<100	--			3.0 *	0.5 - 5.4	<100
Born outside the U.S.	42.5	37.5 - 47.5	2,300	48.2	42.3 - 54.2	1,900	21.9	14.2 - 29.7	300
Speaks non-English language at home	39.0	34.0 - 44.0	2,100	44.5	38.5 - 50.4	1,700	17.6	10.9 - 24.3	200
Lives in a high poverty neighborhood†	7.8	3.5 - 12.1	400	8.9 *	3.3 - 14.4	300	4.4 *	1.0 - 7.9	<100
Income as a percent of the Federal Poverty Guideline									
0-100%	38.2	32.8 - 43.7	1,900	39.2	32.6 - 45.8	1,400	33.6	23.5 - 43.6	400
101-200%	23.8	19.7 - 27.9	1,200	22.1	17.5 - 26.7	800	27.5	18.3 - 36.8	300
> 200%	38.0	32.9 - 43.1	1,800	38.7	32.7 - 44.7	1,400	38.9	28.4 - 49.4	400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).
Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.
Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Barbara County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	38.2	32.8 - 43.7	1,900	23.8	19.7 - 27.9	1,200	38.0	32.9 - 43.1	1,800
Health Status before Pregnancy												
In good to excellent health	88.2	83.8 - 92.6	4,700	81.0	70.1 - 91.9	1,500	86.2	80.0 - 92.4	1,000	95.7 *	92.2 - 99.1	1,800
Chronic conditions												
Diabetes	2.9	1.3 - 4.5	200	2.3 *	0.5 - 4.2	<100	5.4 *	1.6 - 9.3	<100	--		
Hypertension	3.2 *	1.2 - 5.3	200	--			--			--		
Asthma	6.3	3.7 - 8.8	300	8.2 *	2.6 - 13.8	100	4.4 *	0.8 - 8.0	<100	5.9 *	1.8 - 10.1	100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	26.6	16.0 - 37.2	500	27.4	18.9 - 36.0	300	49.1	40.9 - 57.3	900
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	39.1	28.8 - 49.5	700	37.1	28.3 - 45.9	400	18.6	11.9 - 25.3	300
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	28.4	20.7 - 36.2	500	22.9	14.9 - 31.0	300	21.8	14.7 - 28.9	400
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	29.8	21.6 - 38.0	500	28.8	19.8 - 37.7	300	21.5	15.1 - 27.9	400
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	38.6	30.7 - 46.5	600	34.7	25.9 - 43.5	400	44.9	36.5 - 53.3	800
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	24.8	17.6 - 32.1	500	25.0	16.8 - 33.1	300	--		
Nutrition Program Participation												
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	87.3	81.2 - 93.4	1,600	67.8	58.3 - 77.2	800	6.7	2.9 - 10.4	100
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	50.2	40.3 - 60.0	900	13.4	7.4 - 19.4	200	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	14.4	7.7 - 21.2	200	9.3 *	2.4 - 16.2	100	--		
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	24.9	17.8 - 32.1	500	17.4	10.1 - 24.7	200	12.9	7.3 - 18.5	200
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	15.8	9.1 - 22.5	300	13.9	7.1 - 20.7	200	9.2	4.7 - 13.6	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	7.6 *	2.9 - 12.3	100	3.6 *	0.6 - 6.7	<100	--		
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	7.2	3.6 - 10.9	100	7.2 *	1.8 - 12.6	<100	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	21.4	14.3 - 28.4	400	10.6	5.3 - 16.0	100	5.6 *	1.5 - 9.6	100
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	16.8	10.2 - 23.4	300	14.9	8.5 - 21.4	200	4.3 *	1.5 - 7.2	<100
Became separated or divorced	7.8	5.5 - 10.1	400	14.0	8.6 - 19.5	200	7.1 *	2.5 - 11.7	<100	2.6 *	0.3 - 5.0	<100
Had no practical or emotional support	3.7	2.2 - 5.2	200	5.9	2.6 - 9.1	100	5.6 *	1.6 - 9.6	<100	--		
Substance Use												
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	7.4 *	2.1 - 12.6	100	5.3 *	1.3 - 9.3	<100	6.8 *	1.7 - 11.9	100
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			--			--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	9.1 *	3.6 - 14.5	200	15.5	8.5 - 22.5	200	18.8	12.4 - 25.3	300
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	3.0 *	0.4 - 5.5	<100	4.1 *	0.3 - 7.9	<100	16.6	10.5 - 22.7	300
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	3.8 *	0.6 - 6.9	<100	--			--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	43.7	33.2 - 54.2	800	33.5	24.5 - 42.5	400	16.0	10.0 - 22.1	300
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	16.8	10.2 - 23.3	300	15.4	8.7 - 22.1	200	9.4	4.1 - 14.8	200
Postpartum birth control use	86.1	82.8 - 89.3	4,500	89.8	85.5 - 94.2	1,700	86.4	79.8 - 92.9	1,000	85.3	79.3 - 91.2	1,500
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	79.3	73.1 - 85.4	1,500	82.1	74.6 - 89.5	900	84.2	78.1 - 90.2	1,500
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	58.8	49.6 - 68.0	1,100	42.7	33.4 - 51.9	500	24.8	18.1 - 31.5	400
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	94.6	91.4 - 97.7	1,700	91.4	86.5 - 96.3	1,100	--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	55.2	45.0 - 65.4	1,000	57.8	48.5 - 67.2	700	73.5	66.0 - 81.0	1,300
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	91.0	86.6 - 95.3	1,700	90.9 *	85.3 - 96.4	1,000	90.6 *	84.8 - 96.3	1,600
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	45.4	37.0 - 53.8	700	43.6	34.1 - 53.2	500	50.2	41.9 - 58.6	900
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	73.6	64.5 - 82.6	1,100	78.0	69.3 - 86.7	700	85.6	78.6 - 92.6	1,200
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	32.1	23.8 - 40.4	400	31.1	21.6 - 40.6	300	47.6	38.2 - 57.0	700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	69.1	64.7 - 73.5	3,700	65.8	57.4 - 74.1	1,200	62.2	53.3 - 71.1	700	80.5	73.9 - 87.2	1,500
Initiated prenatal care in 1st trimester	89.3	86.6 - 91.9	4,600	83.6	78.1 - 89.2	1,500	93.1 *	88.5 - 97.7	1,100	93.7 *	89.7 - 97.7	1,700
Received dental care during pregnancy	49.5	44.5 - 54.6	2,600	45.4	35.3 - 55.5	800	45.6	36.3 - 54.9	500	58.7	50.5 - 66.9	1,100
Received a Tdap vaccine during pregnancy	58.0	52.8 - 63.1	3,100	56.4	46.2 - 66.7	1,000	60.5	51.4 - 69.6	700	62.8	54.6 - 70.9	1,100
Received a flu shot during pregnancy	66.0	60.9 - 71.2	3,400	65.6	54.7 - 76.4	1,200	70.4	61.7 - 79.2	800	67.8	60.2 - 75.4	1,200
Had a postpartum medical visit	92.4	90.2 - 94.7	4,900	91.0	87.0 - 95.0	1,700	94.5 *	89.9 - 99.1	1,100	94.9 *	91.5 - 98.3	1,700
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	42.2	37.0 - 47.3	2,200	69.2	61.1 - 77.3	1,300	50.4	41.0 - 59.8	600	10.2	5.1 - 15.3	200
Uninsured	15.7	12.4 - 19.0	800	21.2	14.1 - 28.3	400	18.8	12.3 - 25.4	200	4.4 *	1.4 - 7.5	<100
Private	38.8	34.0 - 43.6	2,100	9.4	5.1 - 13.7	200	25.2	16.7 - 33.7	300	79.9	73.5 - 86.4	1,500
Prenatal insurance												
Medi-Cal	62.6	57.8 - 67.4	3,300	96.6 *	94.0 - 99.3	1,800	78.8	70.7 - 87.0	900	13.8	8.6 - 18.9	300
Uninsured	1.3 *	0.3 - 2.3	<100	--			--			--		
Private	33.1	28.4 - 37.8	1,800	--			15.5	7.9 - 23.1	200	79.6	73.4 - 85.8	1,500
Had any gaps in insurance during pregnancy	8.1	5.5 - 10.6	400	5.7	2.6 - 8.7	100	12.2	6.1 - 18.3	100	6.7 *	2.0 - 11.4	100
Maternal postpartum insurance												
Medi-Cal	50.3	45.3 - 55.4	2,700	75.3	67.8 - 82.9	1,400	67.3	58.4 - 76.1	800	9.5	4.8 - 14.3	200
Uninsured	13.7	10.4 - 16.9	700	22.0	14.8 - 29.3	400	15.0	8.8 - 21.2	200	4.0 *	0.9 - 7.0	<100
Private	33.1	28.5 - 37.8	1,700	2.0 *	0.1 - 3.9	<100	15.2	8.0 - 22.5	200	80.8	74.5 - 87.1	1,400
Infant health insurance												
Medi-Cal	67.8	63.2 - 72.3	3,500	--			89.4	83.6 - 95.3	1,000	21.4	14.3 - 28.5	400
Uninsured	1.7 *	0.3 - 3.0	<100	--			--			--		
Private	27.8	23.5 - 32.2	1,500	--			5.7 *	1.5 - 10.0	<100	71.9	64.3 - 79.5	1,300
Maternal Demographics												
First live birth	36.3	31.6 - 40.9	1,900	24.8	17.3 - 32.4	500	30.9	22.3 - 39.6	400	46.2	38.0 - 54.3	800
Less than high school education (or GED)	25.9	21.1 - 30.7	1,400	47.7	37.8 - 57.7	900	23.2	15.7 - 30.7	300	2.7 *	0.2 - 5.2	<100
Unmarried	45.3	40.1 - 50.4	2,400	73.5	66.2 - 80.8	1,300	47.4	38.0 - 56.8	500	15.2	9.2 - 21.1	300
Race/Ethnicity												
White	27.8	23.4 - 32.1	1,500	7.7 *	2.5 - 12.9	100	21.2	13.6 - 28.9	200	54.2	46.0 - 62.4	1,000
Hispanic	66.9	62.3 - 71.4	3,500	89.7	84.1 - 95.3	1,600	75.5	67.5 - 83.4	900	35.4	27.4 - 43.4	700
Asian/Pacific Islander	4.2	2.4 - 6.0	200	--			--			8.7	4.4 - 13.0	200
Black	1.1 *	0.3 - 1.8	<100	--			--			--		
Born outside the U.S.	42.5	37.5 - 47.5	2,300	60.6	51.4 - 69.8	1,100	42.8	33.9 - 51.8	500	19.2	12.8 - 25.5	400
Speaks non-English language at home	39.0	34.0 - 44.0	2,100	62.3	53.2 - 71.4	1,100	41.5	32.5 - 50.4	500	11.7	7.1 - 16.3	200
Lives in a high poverty neighborhood†	7.8	3.5 - 12.1	400	16.8 *	5.5 - 28.2	300	5.2 *	1.9 - 8.4	<100	--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Barbara County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Low: <10% of Residents Below Poverty†			Moderate-Low: 10-19% of Residents Below Poverty†			Moderate-High: 20-29% of Residents Below Poverty†			High: ≥30% of Residents Below Poverty†		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	34.9	30.2 - 39.6	1,800	32.7	28.0 - 37.4	1,700	24.6	20.6 - 28.6	1,300	7.8	3.5 - 12.1	400
Health Status before Pregnancy															
In good to excellent health	88.2	83.8 - 92.6	4,700	97.0 *	94.7 - 99.3	1,700	90.8	86.0 - 95.5	1,500	84.1	78.0 - 90.3	1,100	53.4 *	21.8 - 84.9	200
Chronic conditions															
Diabetes	2.9	1.3 - 4.5	200	--			2.5 *	0.4 - 4.6	<100	6.6 *	1.1 - 12.0	<100	--		
Hypertension	3.2 *	1.2 - 5.3	200	4.5 *	1.0 - 8.1	<100	--			--			--		
Asthma	6.3	3.7 - 8.8	300	8.4	4.3 - 12.5	200	--			--			--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	39.8	31.9 - 47.6	700	32.9	24.5 - 41.3	600	22.3	15.6 - 28.9	300	50.3 *	20.4 - 80.1	200
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	21.8	15.4 - 28.3	400	31.8	23.5 - 40.1	500	29.6	22.0 - 37.2	400	58.4 *	32.6 - 84.2	200
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	23.4	16.4 - 30.4	400	23.1	16.0 - 30.3	400	32.4	23.5 - 41.4	400	24.2 *	6.6 - 41.8	<100
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	25.7	18.3 - 33.0	400	25.2	17.3 - 33.1	400	27.0	18.6 - 35.4	300	33.2	18.8 - 47.6	<100
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	42.2	34.2 - 50.2	700	44.6	35.8 - 53.5	700	30.8	22.6 - 39.0	400	36.6	21.4 - 51.8	100
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	11.9	6.4 - 17.4	200	11.5	6.6 - 16.5	200	30.7	22.2 - 39.1	400	19.8 *	5.5 - 34.0	<100
Nutrition Program Participation															
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	30.3	23.3 - 37.2	500	54.5	45.5 - 63.6	900	78.0	69.7 - 86.4	1,000	87.5 *	75.8 - 99.2	400
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	12.9	7.8 - 17.9	200	20.0	12.9 - 27.1	300	26.3	18.2 - 34.3	300	66.4 *	45.0 - 87.8	300
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	6.4 *	1.7 - 11.1	100	9.1 *	3.7 - 14.5	200	11.0	4.9 - 17.1	100	--		
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	18.7	12.3 - 25.1	300	18.6	11.8 - 25.3	300	24.9	17.3 - 32.5	300	--		
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	11.8	6.8 - 16.7	200	12.9	6.6 - 19.1	200	15.3	8.0 - 22.7	200	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	3.0 *	0.6 - 5.5	<100	--			5.3 *	1.6 - 9.0	<100	8.2 *	0.2 - 16.2	<100
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	4.4 *	1.1 - 7.8	<100	4.8 *	1.4 - 8.2	<100	7.0 *	2.8 - 11.3	<100	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	9.0	4.3 - 13.7	200	11.6	6.4 - 16.8	200	20.8	12.9 - 28.8	300	14.3 *	2.4 - 26.3	<100
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	10.0	5.4 - 14.6	200	12.5	7.1 - 17.9	200	14.9	7.6 - 22.1	200	13.4 *	1.2 - 25.6	<100
Became separated or divorced	7.8	5.5 - 10.1	400	6.4	2.8 - 10.1	100	7.7	3.4 - 12.0	100	11.0	5.8 - 16.1	100	--		
Had no practical or emotional support	3.7	2.2 - 5.2	200	--			2.5 *	0.3 - 4.7	<100	6.3	2.7 - 9.8	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	6.2 *	2.1 - 10.4	100	9.7 *	3.1 - 16.3	200	3.8 *	0.4 - 7.1	<100	--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			--			--			--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	19.1	12.7 - 25.5	300	18.2	10.9 - 25.5	300	5.1 *	1.8 - 8.3	<100	--		
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	15.7	10.0 - 21.4	300	6.1 *	1.4 - 10.8	100	--			--		
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	--			--			--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	23.1	15.9 - 30.3	400	38.0	29.3 - 46.7	600	29.2	21.0 - 37.4	400	52.5 *	23.8 - 81.2	200
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	14.0	8.2 - 19.8	300	13.0	6.7 - 19.4	200	10.0	4.5 - 15.5	100	15.9 *	2.3 - 29.5	<100
Postpartum birth control use	86.1	82.8 - 89.3	4,500	81.4	75.2 - 87.7	1,400	87.2	81.3 - 93.2	1,400	87.0	81.3 - 92.7	1,000	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	79.9	73.8 - 86.1	1,400	80.3	73.3 - 87.2	1,300	78.8	71.4 - 86.2	1,000	--		
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	26.7	19.5 - 33.9	500	42.8	33.9 - 51.7	700	56.0	47.0 - 65.1	700	67.4 *	44.8 - 90.0	300
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	95.2 *	92.2 - 98.3	1,700	95.8 *	92.8 - 98.8	1,600	91.4 *	85.6 - 97.2	1,100	--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	69.3	61.9 - 76.7	1,200	68.3	59.8 - 76.7	1,100	55.0	46.1 - 63.9	700	34.5 *	12.6 - 56.4	100
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	86.5	80.2 - 92.8	1,500	94.7 *	91.2 - 98.3	1,500	90.4 *	83.9 - 96.8	1,100	--		
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	53.4	45.2 - 61.6	900	43.0	34.1 - 52.0	700	43.3	34.2 - 52.3	500	40.6	23.7 - 57.5	<100
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	74.5	66.3 - 82.6	1,000	79.1	70.5 - 87.6	1,000	82.3	75.1 - 89.4	800	82.2 *	65.3 - 99.0	300
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	40.2	31.4 - 48.9	500	39.9	30.1 - 49.6	500	32.8	23.2 - 42.4	300	24.6 *	9.0 - 40.1	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	69.1	64.7	73.5	3,700	76.7	70.3	83.1	1,400	63.5	55.2	71.8	1,100	61.7	52.9	70.6	800	74.7 *	56.4	92.9	300
Initiated prenatal care in 1st trimester	89.3	86.6	91.9	4,600	93.5	89.9	97.2	1,700	88.5	83.3	93.7	1,500	81.9	75.4	88.4	1,000	90.9 *	82.3	99.5	300
Received dental care during pregnancy	49.5	44.5	54.6	2,600	54.0	46.0	62.1	1,000	49.1	40.3	57.9	800	42.7	34.0	51.3	500	59.6 *	34.5	84.7	200
Received a Tdap vaccine during pregnancy	58.0	52.8	63.1	3,100	61.2	53.5	69.0	1,100	63.1	54.3	71.8	1,100	54.2	45.3	63.1	700	34.6 *	12.1	57.1	100
Received a flu shot during pregnancy	66.0	60.9	71.2	3,400	60.9	52.9	68.9	1,100	73.4	65.8	80.9	1,200	71.4	62.9	79.8	900	46.1 *	17.4	74.9	200
Had a postpartum medical visit	92.4	90.2	94.7	4,900	93.1	89.1	97.1	1,700	94.0	90.5	97.5	1,600	89.9	85.2	94.6	1,100	--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	42.2	37.0	47.3	2,200	27.5	20.0	35.0	500	44.3	35.5	53.1	700	52.0	43.1	61.0	700	74.7 *	56.8	92.5	300
Uninsured	15.7	12.4	19.0	800	7.9	4.2	11.5	100	14.5	9.0	20.0	200	23.9	16.0	31.7	300	18.3 *	4.1	32.5	<100
Private	38.8	34.0	43.6	2,100	56.9	48.9	64.9	1,000	39.6	30.9	48.4	700	23.6	16.1	31.1	300	--			
Prenatal insurance																				
Medi-Cal	62.6	57.8	67.4	3,300	38.5	30.7	46.3	700	64.0	55.3	72.7	1,100	82.1	75.1	89.2	1,000	--			
Uninsured	1.3 *	0.3	2.3	<100	--				--				--				--			
Private	33.1	28.4	37.8	1,800	52.3	44.3	60.4	900	35.3	26.6	44.0	600	15.3	8.6	21.9	200	--			
Had any gaps in insurance during pregnancy	8.1	5.5	10.6	400	5.7	2.4	9.0	100	12.2	6.1	18.3	200	7.7	3.3	12.1	<100	--			
Maternal postpartum insurance																				
Medi-Cal	50.3	45.3	55.4	2,700	37.0	29.1	44.9	700	52.2	43.3	61.0	900	58.6	49.5	67.8	700	76.9 *	60.3	93.4	300
Uninsured	13.7	10.4	16.9	700	5.6 *	2.2	9.1	100	10.7	5.8	15.6	200	25.0	16.7	33.2	300	17.3 *	3.7	31.0	<100
Private	33.1	28.5	37.8	1,700	50.2	42.2	58.3	900	36.1	27.5	44.7	600	16.4	9.5	23.3	200	--			
Infant health insurance																				
Medi-Cal	67.8	63.2	72.3	3,500	45.4	37.3	53.5	800	69.2	60.9	77.5	1,100	86.0	79.3	92.7	1,100	--			
Uninsured	1.7 *	0.3	3.0	<100	--				--				--				--			
Private	27.8	23.5	32.2	1,500	44.9	36.8	52.9	800	29.3	21.1	37.6	500	11.8	5.8	17.8	100	--			
Maternal Demographics																				
Age																				
15-19	5.9	4.0	7.8	300	1.9 *	0.2	3.5	<100	6.5	2.9	10.2	100	12.1	6.6	17.6	200	--			
20-34	74.4	70.0	78.7	4,000	78.9	72.6	85.2	1,400	70.9	62.5	79.4	1,200	70.8	62.3	79.2	900	85.9 *	74.0	97.8	300
35+	19.7	15.7	23.8	1,100	19.2	13.0	25.4	300	22.5	14.4	30.6	400	17.1	9.6	24.7	200	--			
First live birth	36.3	31.6	40.9	1,900	43.0	35.0	51.0	800	35.0	26.9	43.1	600	35.3	26.8	43.7	400	19.4 *	5.0	33.7	<100
Less than high school education (or GED)	25.9	21.1	30.7	1,400	7.5	4.1	10.9	100	16.2	10.8	21.6	300	49.4	40.4	58.4	600	68.4 *	47.3	89.4	300
Unmarried	45.3	40.1	50.4	2,400	29.6	22.1	37.1	500	47.8	38.9	56.6	800	57.2	48.5	65.9	700	65.9 *	43.7	88.1	300
Race/Ethnicity																				
White	27.8	23.4	32.1	1,500	52.2	44.1	60.2	900	26.2	18.5	34.0	400	5.0 *	1.2	8.7	<100	--			
Hispanic	66.9	62.3	71.4	3,500	40.8	32.9	48.7	700	67.9	59.6	76.1	1,100	91.6	87.0	96.2	1,200	--			
Asian/Pacific Islander	4.2	2.4	6.0	200	6.2	2.7	9.7	100	4.0 *	0.3	7.7	<100	2.8 *	0.1	5.4	<100	--			
Black	1.1 *	0.3	1.8	<100	--				--				--				--			
Born outside the U.S.	42.5	37.5	47.5	2,300	14.8	9.9	19.7	300	40.2	31.8	48.7	700	68.8	60.0	77.7	900	86.0 *	73.7	98.3	300
Speaks non-English language at home	39.0	34.0	44.0	2,100	17.1	11.8	22.4	300	28.3	20.8	35.8	500	66.6	57.7	75.4	800	82.1 *	68.0	96.2	300
Income as a percent of the Federal Poverty Guideline																				
0-100%	38.2	32.8	43.7	1,900	22.1	15.0	29.2	400	34.9	25.9	43.9	500	52.3	42.7	61.8	600	79.8 *	64.2	95.4	300
101-200%	23.8	19.7	27.9	1,200	20.5	14.1	26.9	300	26.4	18.4	34.4	400	26.8	18.7	34.9	300	15.2 *	2.6	27.7	<100
> 200%	38.0	32.9	43.1	1,800	57.4	49.2	65.6	1,000	38.7	29.4	48.0	600	20.9	13.0	28.8	200	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Barbara County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	62.6	57.8 - 67.4	3,300	33.1	28.4 - 37.8	1,800
Health Status before Pregnancy									
In good to excellent health	88.2	83.8 - 92.6	4,700	83.1	76.5 - 89.7	2,800	96.1 *	92.6 - 99.6	1,700
Chronic conditions									
Diabetes	2.9	1.3 - 4.5	200	4.7	2.2 - 7.3	200	--		
Hypertension	3.2 *	1.2 - 5.3	200	--			4.7 *	1.0 - 8.4	<100
Asthma	6.3	3.7 - 8.8	300	5.7	2.5 - 9.0	200	7.6 *	2.9 - 12.4	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	24.8	18.1 - 31.6	800	51.6	43.1 - 60.0	900
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	35.3	28.6 - 42.1	1,200	20.4	13.3 - 27.4	400
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	27.7	22.2 - 33.1	900	22.4	14.9 - 29.8	400
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	30.0	24.4 - 35.7	900	22.5	15.6 - 29.3	400
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	38.0	32.4 - 43.6	1,100	43.1	34.5 - 51.7	700
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	23.1	18.2 - 27.9	800	7.3 *	2.6 - 12.0	100
Nutrition Program Participation									
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	82.6	77.6 - 87.6	2,700	3.9 *	0.6 - 7.3	<100
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	35.9	29.1 - 42.8	1,200	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	12.1	7.6 - 16.6	400	--		
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	22.3	17.3 - 27.2	700	14.4	8.2 - 20.6	300
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	14.4	10.0 - 18.8	500	11.2	6.0 - 16.4	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	6.1	3.2 - 8.9	200	--		
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	6.7	4.0 - 9.4	200	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	17.6	13.1 - 22.1	600	6.7 *	2.2 - 11.3	100
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	15.9	11.5 - 20.4	500	5.7 *	1.9 - 9.4	<100
Became separated or divorced	7.8	5.5 - 10.1	400	11.3	7.8 - 14.8	400	--		
Had no practical or emotional support	3.7	2.2 - 5.2	200	5.8	3.4 - 8.1	200	--		
Substance Use									
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	6.6	3.2 - 9.9	200	5.6 *	0.6 - 10.7	<100
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	10.7	6.8 - 14.6	400	19.5	12.7 - 26.4	300
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	3.8	1.6 - 6.0	100	17.1	10.8 - 23.5	300
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	2.1 *	0.4 - 3.8	<100	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	40.1	33.2 - 47.1	1,300	17.4	10.8 - 24.0	300
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	14.5	10.2 - 18.8	500	8.7	3.7 - 13.6	200
Postpartum birth control use	86.1	82.8 - 89.3	4,500	86.4	82.4 - 90.3	2,800	83.9	77.6 - 90.1	1,400
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	79.2	74.5 - 83.8	2,600	84.2	77.9 - 90.5	1,500
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	51.0	44.3 - 57.7	1,600	25.8	18.8 - 32.8	500
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	91.7	88.5 - 94.9	3,000	--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	56.1	49.3 - 62.9	1,800	72.8	64.9 - 80.6	1,300
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	90.0	86.2 - 93.8	2,900	91.1 *	85.6 - 96.7	1,600
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	44.8	38.8 - 50.8	1,300	48.8	40.3 - 57.4	800
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	74.4	68.2 - 80.5	1,900	85.5	78.4 - 92.6	1,100
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	32.4	26.5 - 38.3	800	45.7	36.0 - 55.3	600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	69.1	64.7	73.5	3,700	64.6	58.8	70.5	2,100	75.3	67.8	82.8	1,300
Initiated prenatal care in 1st trimester	89.3	86.6	91.9	4,600	86.8	83.2	90.5	2,800	92.9 *	88.6	97.2	1,600
Received dental care during pregnancy	49.5	44.5	54.6	2,600	45.8	39.1	52.4	1,500	56.9	48.4	65.4	1,000
Received a Tdap vaccine during pregnancy	58.0	52.8	63.1	3,100	55.0	48.3	61.7	1,800	64.1	55.8	72.4	1,100
Received a flu shot during pregnancy	66.0	60.9	71.2	3,400	63.9	56.9	71.0	2,000	71.2	63.6	78.7	1,200
Had a postpartum medical visit	92.4	90.2	94.7	4,900	90.8	87.8	93.8	2,900	95.2 *	91.5	98.8	1,700
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	42.2	37.0	47.3	2,200	65.7	59.9	71.5	2,200	--			
Uninsured	15.7	12.4	19.0	800	22.6	17.7	27.6	800	--			
Private	38.8	34.0	43.6	2,100	11.0	7.6	14.4	400	96.1 *	92.6	99.7	1,700
Had any gaps in insurance during pregnancy	8.1	5.5	10.6	400	8.3	5.3	11.4	300	4.4 *	0.2	8.5	<100
Maternal postpartum insurance												
Medi-Cal	50.3	45.3	55.4	2,700	76.5	71.4	81.6	2,500	5.5 *	1.5	9.5	<100
Uninsured	13.7	10.4	16.9	700	20.2	15.4	25.1	700	--			
Private	33.1	28.5	37.8	1,700	3.1	1.4	4.8	100	94.5 *	90.5	98.5	1,600
Infant health insurance												
Medi-Cal	67.8	63.2	72.3	3,500	97.5 *	95.7	99.3	3,200	17.1	9.9	24.2	300
Uninsured	1.7 *	0.3	3.0	<100	--				--			
Private	27.8	23.5	32.2	1,500	1.0 *	0.0	2.0	<100	81.9	74.6	89.2	1,400
Maternal Demographics												
Age												
15-19	5.9	4.0	7.8	300	9.2	6.2	12.2	300	--			
20-34	74.4	70.0	78.7	4,000	75.7	70.3	81.1	2,500	70.6	62.7	78.4	1,200
35+	19.7	15.7	23.8	1,100	15.1	10.2	19.9	500	29.4	21.6	37.3	500
First live birth	36.3	31.6	40.9	1,900	29.9	24.4	35.5	1,000	47.5	39.1	55.9	800
Less than high school education (or GED)	25.9	21.1	30.7	1,400	39.4	32.7	46.1	1,300	--			
Unmarried	45.3	40.1	50.4	2,400	64.0	58.2	69.8	2,100	14.2	8.1	20.4	200
Race/Ethnicity												
White	27.8	23.4	32.1	1,500	11.6	7.6	15.5	400	54.5	46.0	63.0	1,000
Hispanic	66.9	62.3	71.4	3,500	86.0	81.7	90.2	2,800	36.2	27.8	44.5	600
Asian/Pacific Islander	4.2	2.4	6.0	200	1.5 *	0.1	2.9	<100	8.2	3.8	12.6	100
Black	1.1 *	0.3	1.8	<100	--				--			
Born outside the U.S.	42.5	37.5	47.5	2,300	55.0	48.6	61.5	1,800	20.4	13.6	27.2	400
Speaks non-English language at home	39.0	34.0	44.0	2,100	54.5	48.1	61.0	1,800	11.1	6.3	16.0	200
Lives in a high poverty neighborhood†	7.8	3.5	12.1	400	11.8	5.1	18.5	400	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	38.2	32.8	43.7	1,900	60.7	54.2	67.2	1,800	--			
101-200%	23.8	19.7	27.9	1,200	30.7	24.8	36.5	900	10.5	5.1	16.0	200
> 200%	38.0	32.9	43.1	1,800	8.6	5.3	11.9	300	86.8	80.9	92.7	1,500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

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MIHA Data Snapshot, Santa Barbara County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	66.9	62.3 - 71.4	3,500	1.1 *	0.3 - 1.8	<100	27.8	23.4 - 32.1	1,500	4.2	2.4 - 6.0	200
Health Status before Pregnancy															
In good to excellent health	88.2	83.8 - 92.6	4,700	83.8	77.5 - 90.2	2,900	--			96.5 *	93.4 - 99.6	1,400	--		
Chronic conditions															
Diabetes	2.9	1.3 - 4.5	200	4.2	1.8 - 6.6	100	--			--			--		
Hypertension	3.2 *	1.2 - 5.3	200	4.1 *	1.0 - 7.1	100	--			--			--		
Asthma	6.3	3.7 - 8.8	300	4.5	2.0 - 7.0	100	--			8.1 *	3.2 - 13.0	100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	28.2	21.5 - 34.8	1,000	--			46.6	37.5 - 55.6	700	46.2	24.6 - 67.7	100
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	36.3	29.8 - 42.9	1,300	--			14.6	8.2 - 20.9	200	28.9 *	8.1 - 49.6	<100
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	30.1	24.5 - 35.7	1,100	--			16.1	9.5 - 22.7	200	--		
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	24.9	19.8 - 29.9	800	--			27.2	18.7 - 35.8	400	52.8	29.3 - 76.3	100
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	38.5	33.0 - 44.1	1,200	--			42.4	33.4 - 51.4	600	34.1 *	11.1 - 57.1	<100
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	22.5	17.7 - 27.3	800	--			6.6 *	2.2 - 11.1	<100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	73.4	67.7 - 79.0	2,600	--			13.4	7.9 - 18.8	200	25.3 *	5.2 - 45.5	<100
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	30.0	23.4 - 36.6	1,000	--			8.9	4.5 - 13.4	100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	10.5	6.4 - 14.5	400	--			--			--		
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	18.9	14.4 - 23.4	700	--			18.7	11.5 - 25.8	300	24.0 *	5.4 - 42.6	<100
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	12.7	8.7 - 16.8	400	--			11.8	6.0 - 17.7	200	24.0 *	5.4 - 42.7	<100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	5.6	2.9 - 8.3	200	--			--			--		
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	5.2	2.9 - 7.5	200	--			3.8 *	0.3 - 7.3	<100	--		
Woman or partner lost job	13.2	10.1 - 16.4	700	15.2	11.1 - 19.3	500	--			11.5	5.5 - 17.5	200	--		
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	12.5	8.6 - 16.4	400	--			11.9	6.5 - 17.3	200	--		
Became separated or divorced	7.8	5.5 - 10.1	400	9.5	6.4 - 12.6	300	--			2.8 *	0.2 - 5.5	<100	--		
Had no practical or emotional support	3.7	2.2 - 5.2	200	5.5	3.3 - 7.7	200	--			--			--		
Often experienced racism over her lifetime	8.6	5.9 - 11.4	500	10.2	6.5 - 14.0	400	--			3.9 *	0.7 - 7.1	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	2.6 *	0.7 - 4.5	<100	--			12.3	5.6 - 19.1	200	--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			--			4.6 *	0.3 - 8.9	<100	--		
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	9.2	5.8 - 12.6	300	--			24.2	16.5 - 31.8	400	--		
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	3.8 *	1.5 - 6.1	100	--			20.0	12.9 - 27.1	300	--		
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	2.7 *	0.8 - 4.7	<100	--			--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	36.1	29.4 - 42.8	1,300	--			22.3	14.0 - 30.6	300	28.6 *	7.2 - 49.9	<100
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	12.8	9.1 - 16.6	400	--			12.3	6.2 - 18.3	200	--		
Postpartum birth control use	86.1	82.8 - 89.3	4,500	86.2	82.1 - 90.3	3,000	--			88.3	82.9 - 93.6	1,300	69.7 *	50.0 - 89.4	200
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	81.3	76.9 - 85.7	2,800	35.6 *	5.7 - 65.4	<100	83.4	76.5 - 90.3	1,200	68.8 *	48.8 - 88.8	200
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	47.5	40.9 - 54.0	1,600	59.4 *	24.6 - 94.2	<100	30.0	21.4 - 38.6	400	25.0 *	8.5 - 41.6	<100
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	92.8	89.9 - 95.7	3,200	--			--			--		
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	53.0	46.5 - 59.5	1,800	--			85.4	79.1 - 91.8	1,200	55.3	33.7 - 76.9	100
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	88.1	83.9 - 92.2	3,000	--			94.8 *	90.4 - 99.1	1,400	--		
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	41.5	35.7 - 47.2	1,300	--			65.6	56.4 - 74.8	900	--		
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	73.9	67.8 - 80.1	2,000	--			91.3 *	85.9 - 96.6	1,000	70.5 *	48.3 - 92.7	100
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	30.4	24.6 - 36.2	800	--			61.2	51.1 - 71.2	600	--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	69.1	64.7 - 73.5	3,700	66.3	60.7 - 71.9	2,300	46.4 *	12.9 - 79.9	<100	75.3	67.3 - 83.2	1,100	77.0 *	59.0 - 95.0	200
Initiated prenatal care in 1st trimester	89.3	86.6 - 91.9	4,600	87.5	84.1 - 91.0	3,000	--			94.0 *	89.9 - 98.2	1,400	--		
Received dental care during pregnancy	49.5	44.5 - 54.6	2,600	47.6	41.2 - 54.0	1,700	35.3 *	5.7 - 64.8	<100	56.1	46.9 - 65.2	800	36.9	16.8 - 57.1	<100
Received a Tdap vaccine during pregnancy	58.0	52.8 - 63.1	3,100	55.3	48.7 - 61.8	1,900	--			63.3	54.6 - 72.1	900	67.8 *	46.4 - 89.2	200
Received a flu shot during pregnancy	66.0	60.9 - 71.2	3,400	69.4	62.7 - 76.1	2,400	--			56.9	47.8 - 66.1	800	64.4 *	43.0 - 85.8	100
Had a postpartum medical visit	92.4	90.2 - 94.7	4,900	92.3	89.7 - 95.0	3,200	--			92.8 *	88.2 - 97.4	1,400	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	42.2	37.0 - 47.3	2,200	52.8	46.5 - 59.1	1,900	53.9 *	17.9 - 90.0	<100	16.6	9.5 - 23.7	200	28.3 *	6.5 - 50.1	<100
Uninsured	15.7	12.4 - 19.0	800	21.4	16.7 - 26.1	700	--			5.4 *	1.4 - 9.5	<100	--		
Private	38.8	34.0 - 43.6	2,100	25.1	19.8 - 30.4	900	--			70.3	61.9 - 78.7	1,000	55.7	34.0 - 77.4	100
Prenatal insurance															
Medi-Cal	62.6	57.8 - 67.4	3,300	80.3	75.3 - 85.3	2,800	46.3 *	11.6 - 81.1	<100	25.9	17.9 - 33.9	400	22.0 *	3.8 - 40.3	<100
Uninsured	1.3 *	0.3 - 2.3	<100	--			--			--			--		
Private	33.1	28.4 - 37.8	1,800	18.1	13.2 - 23.0	600	--			65.3	56.6 - 74.0	1,000	64.4	44.4 - 84.5	100
Had any gaps in insurance during pregnancy	8.1	5.5 - 10.6	400	7.6	4.8 - 10.4	300	--			10.9	4.7 - 17.0	200	--		
Maternal postpartum insurance															
Medi-Cal	50.3	45.3 - 55.4	2,700	61.3	55.2 - 67.4	2,100	65.3 *	35.0 - 95.6	<100	26.1	17.8 - 34.3	400	--		
Uninsured	13.7	10.4 - 16.9	700	19.7	15.0 - 24.4	700	--			--			--		
Private	33.1	28.5 - 37.8	1,700	18.5	13.6 - 23.4	600	--			64.7	55.9 - 73.5	900	69.1 *	49.5 - 88.7	200
Infant health insurance															
Medi-Cal	67.8	63.2 - 72.3	3,500	85.0	80.5 - 89.5	2,900	--			32.4	23.4 - 41.4	500	23.4 *	5.1 - 41.7	<100
Uninsured	1.7 *	0.3 - 3.0	<100	--			--			--			--		
Private	27.8	23.5 - 32.2	1,500	13.6	9.2 - 17.9	500	--			57.8	48.6 - 67.1	800	63.1	42.9 - 83.2	100
Maternal Demographics															
Age															
15-19	5.9	4.0 - 7.8	300	8.7	5.9 - 11.6	300	--			--			--		
20-34	74.4	70.0 - 78.7	4,000	75.0	69.7 - 80.3	2,700	--			73.2	64.7 - 81.6	1,100	64.2 *	42.3 - 86.2	100
35+	19.7	15.7 - 23.8	1,100	16.3	11.5 - 21.0	600	--			26.4	18.0 - 34.9	400	35.8 *	13.8 - 57.7	<100
First live birth	36.3	31.6 - 40.9	1,900	32.4	26.9 - 37.9	1,100	--			45.8	36.7 - 54.9	700	43.2	22.8 - 63.6	<100
Less than high school education (or GED)	25.9	21.1 - 30.7	1,400	38.8	32.3 - 45.3	1,400	--			--			--		
Unmarried	45.3	40.1 - 50.4	2,400	54.5	48.2 - 60.8	1,900	59.0 *	25.0 - 93.0	<100	26.0	17.4 - 34.5	400	--		
Born outside the U.S.	42.5	37.5 - 47.5	2,300	55.9	49.7 - 62.2	2,000	--			9.2 *	3.3 - 15.1	100	70.7 *	52.6 - 88.9	200
Speaks non-English language at home	39.0	34.0 - 44.0	2,100	55.3	49.0 - 61.5	1,900	--			--			46.0	24.8 - 67.2	100
Lives in a high poverty neighborhood†	7.8	3.5 - 12.1	400	11.2	4.8 - 17.5	400	--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	38.2	32.8 - 43.7	1,900	51.6	44.8 - 58.4	1,600	--			10.0 *	3.4 - 16.6	100	--		
101-200%	23.8	19.7 - 27.9	1,200	27.6	22.1 - 33.1	900	--			17.6	11.0 - 24.3	200	--		
> 200%	38.0	32.9 - 43.1	1,800	20.8	15.4 - 26.2	700	--			72.3	63.8 - 80.8	1,000	74.3 *	54.9 - 93.6	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Barbara County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,400	36.3	31.6 - 40.9	1,900	63.7	59.1 - 68.4	3,400
Health Status before Pregnancy									
In good to excellent health	88.2	83.8 - 92.6	4,700	90.7	86.5 - 94.8	1,800	86.8	80.3 - 93.3	2,900
Chronic conditions									
Diabetes	2.9	1.3 - 4.5	200	1.6 *	0.1 - 3.2	<100	3.7 *	1.3 - 6.0	100
Hypertension	3.2 *	1.2 - 5.3	200	3.1 *	0.7 - 5.5	<100	3.3 *	0.4 - 6.2	100
Asthma	6.3	3.7 - 8.8	300	3.6 *	1.1 - 6.1	<100	7.8	4.0 - 11.7	200
Nutrition and Weight									
Daily folic acid use, month before pregnancy	33.8	28.7 - 38.9	1,800	38.2	30.9 - 45.6	700	31.3	24.4 - 38.1	1,100
Overweight before pregnancy†	29.7	24.7 - 34.7	1,600	20.2	14.3 - 26.1	400	35.1	28.3 - 41.9	1,200
Obese before pregnancy†	25.3	21.1 - 29.6	1,400	21.6	15.5 - 27.7	400	27.5	21.8 - 33.1	900
Inadequate weight gain during pregnancy†	26.6	22.3 - 30.9	1,300	29.3	22.2 - 36.4	500	25.0	19.7 - 30.4	800
Excessive weight gain during pregnancy†	40.1	35.5 - 44.8	2,000	39.4	32.0 - 46.7	700	40.6	34.6 - 46.5	1,300
Food insecurity during pregnancy	17.0	13.6 - 20.5	900	14.6	9.4 - 19.8	300	18.5	13.9 - 23.0	600
Nutrition Program Participation									
Participated in WIC during pregnancy	55.1	50.1 - 60.2	2,900	42.5	35.1 - 49.9	800	62.2	55.8 - 68.6	2,100
Received CalFresh (food stamps) during pregnancy	23.0	18.1 - 27.9	1,200	9.4	5.3 - 13.5	200	30.7	23.9 - 37.6	1,000
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	8.4	5.5 - 11.4	400	11.9	6.3 - 17.4	200	6.5	3.1 - 9.8	200
Prenatal depressive symptoms†	19.0	15.3 - 22.7	1,000	21.7	15.1 - 28.3	400	17.4	13.1 - 21.7	600
Postpartum depressive symptoms†	13.0	9.7 - 16.2	700	13.7	8.6 - 18.7	300	12.6	8.3 - 16.8	400
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.3	2.4 - 6.2	200	3.4 *	1.1 - 5.7	<100	4.8	2.2 - 7.4	200
Moved due to problems paying rent or mortgage	4.9	3.0 - 6.8	300	7.1	3.2 - 10.9	100	3.7	1.7 - 5.7	100
Woman or partner lost job	13.2	10.1 - 16.4	700	11.0	6.3 - 15.6	200	14.5	10.3 - 18.7	500
Woman or partner had pay or hours cut back	11.9	8.9 - 15.0	600	11.2	6.5 - 16.0	200	12.3	8.4 - 16.2	400
Became separated or divorced	7.8	5.5 - 10.1	400	9.8	5.8 - 13.8	200	6.7	3.9 - 9.4	200
Had no practical or emotional support	3.7	2.2 - 5.2	200	2.9 *	0.6 - 5.3	<100	4.2	2.2 - 6.1	100
Substance Use									
Any smoking, 3 months before pregnancy	6.1	3.4 - 8.7	300	6.5 *	2.3 - 10.7	100	5.8 *	2.4 - 9.3	200
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	1.5 *	0.3 - 2.8	<100	--			1.1 *	0.1 - 2.1	<100
Any binge drinking, 3 months before pregnancy	13.8	10.4 - 17.3	700	18.0	12.0 - 23.9	300	11.5	7.4 - 15.6	400
Any alcohol use, 3rd trimester	8.1	5.5 - 10.7	400	7.5	3.8 - 11.2	100	8.5	5.0 - 11.9	300
Any cannabis use during pregnancy	2.3 *	0.9 - 3.7	100	--			2.1 *	0.4 - 3.7	<100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	31.4	26.3 - 36.6	1,700	32.2	24.9 - 39.6	600	31.0	24.0 - 38.0	1,000
Unsure of pregnancy intentions	12.9	9.7 - 16.2	700	10.5	6.0 - 15.1	200	14.3	9.9 - 18.8	500
Postpartum birth control use	86.1	82.8 - 89.3	4,500	77.8	71.4 - 84.1	1,500	90.8	87.4 - 94.2	3,000
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	81.0	77.3 - 84.6	4,300	79.8	74.0 - 85.6	1,500	81.6	77.0 - 86.3	2,800
Infant always or often shared bed	42.1	37.0 - 47.3	2,200	37.0	29.6 - 44.4	700	45.0	38.2 - 51.9	1,500
Intended to breastfeed, before birth	94.4	92.4 - 96.5	4,900	95.7 *	93.1 - 98.4	1,800	93.7	90.9 - 96.5	3,200
Intended to breastfeed exclusively, before birth	62.1	56.9 - 67.2	3,300	68.2	61.1 - 75.3	1,300	58.8	51.9 - 65.6	2,000
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.5	87.5 - 93.5	4,700	89.0	83.5 - 94.4	1,700	91.4	87.8 - 95.0	3,100
Exclusive breastfeeding, 1 month after delivery	46.7	41.9 - 51.5	2,300	46.0	38.4 - 53.7	800	47.0	40.9 - 53.2	1,500
Any breastfeeding, 3 months after delivery	78.8	74.3 - 83.3	3,200	77.5	70.3 - 84.8	1,000	79.4	73.7 - 85.2	2,100
Exclusive breastfeeding, 3 months after delivery	37.6	32.4 - 42.7	1,500	40.0	31.6 - 48.5	500	36.3	29.9 - 42.7	900

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Barbara County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Barbara County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	69.1	64.7 - 73.5	3,700	66.7	59.6 - 73.8	1,300	70.5	64.9 - 76.0	2,400
Initiated prenatal care in 1st trimester	89.3	86.6 - 91.9	4,600	90.9	87.2 - 94.7	1,700	88.3	84.7 - 91.9	2,900
Received dental care during pregnancy	49.5	44.5 - 54.6	2,600	50.2	42.8 - 57.7	1,000	49.2	42.5 - 55.8	1,700
Received a Tdap vaccine during pregnancy	58.0	52.8 - 63.1	3,100	64.2	56.9 - 71.4	1,200	54.5	47.7 - 61.3	1,800
Received a flu shot during pregnancy	66.0	60.9 - 71.2	3,400	67.6	60.3 - 74.8	1,300	65.1	58.1 - 72.1	2,200
Had a postpartum medical visit	92.4	90.2 - 94.7	4,900	92.9	89.1 - 96.6	1,800	92.2	89.4 - 95.0	3,100
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	42.2	37.0 - 47.3	2,200	30.9	23.7 - 38.1	600	48.6	41.9 - 55.3	1,600
Uninsured	15.7	12.4 - 19.0	800	15.2	10.2 - 20.3	300	15.9	11.6 - 20.3	500
Private	38.8	34.0 - 43.6	2,100	50.7	43.1 - 58.3	1,000	32.1	26.1 - 38.0	1,100
Prenatal insurance									
Medi-Cal	62.6	57.8 - 67.4	3,300	51.8	44.2 - 59.4	1,000	68.8	62.8 - 74.8	2,300
Uninsured	1.3 *	0.3 - 2.3	<100	--			--		
Private	33.1	28.4 - 37.8	1,800	43.5	35.9 - 51.0	800	27.2	21.5 - 33.0	900
Had any gaps in insurance during pregnancy	8.1	5.5 - 10.6	400	10.2	5.9 - 14.6	200	6.9	3.8 - 10.0	200
Maternal postpartum insurance									
Medi-Cal	50.3	45.3 - 55.4	2,700	44.9	37.4 - 52.5	900	53.4	46.9 - 60.0	1,800
Uninsured	13.7	10.4 - 16.9	700	10.3	5.6 - 15.0	200	15.6	11.3 - 20.0	500
Private	33.1	28.5 - 37.8	1,700	41.4	33.9 - 48.9	800	28.4	22.6 - 34.1	1,000
Infant health insurance									
Medi-Cal	67.8	63.2 - 72.3	3,500	57.7	50.1 - 65.2	1,100	73.3	67.8 - 78.9	2,500
Uninsured	1.7 *	0.3 - 3.0	<100	--			--		
Private	27.8	23.5 - 32.2	1,500	36.4	29.1 - 43.7	700	23.1	17.7 - 28.4	800
Maternal Demographics									
Age									
15-19	5.9	4.0 - 7.8	300	14.4	9.6 - 19.2	300	1.1 *	0.1 - 2.0	<100
20-34	74.4	70.0 - 78.7	4,000	71.4	64.7 - 78.1	1,400	76.0	70.4 - 81.7	2,600
35+	19.7	15.7 - 23.8	1,100	14.2	8.7 - 19.7	300	22.9	17.3 - 28.5	800
Less than high school education (or GED)	25.9	21.1 - 30.7	1,400	11.8	7.9 - 15.7	200	34.0	27.2 - 40.7	1,100
Unmarried	45.3	40.1 - 50.4	2,400	47.6	40.0 - 55.2	900	44.0	37.1 - 50.8	1,500
Race/Ethnicity									
White	27.8	23.4 - 32.1	1,500	34.7	27.3 - 42.2	700	23.8	18.6 - 28.9	800
Hispanic	66.9	62.3 - 71.4	3,500	59.2	51.7 - 66.7	1,100	71.3	65.7 - 76.9	2,400
Asian/Pacific Islander	4.2	2.4 - 6.0	200	5.0	2.4 - 7.5	<100	3.8 *	1.4 - 6.2	100
Black	1.1 *	0.3 - 1.8	<100	--			1.0 *	0.2 - 1.9	<100
Born outside the U.S.	42.5	37.5 - 47.5	2,300	30.8	24.3 - 37.4	600	49.2	42.5 - 55.8	1,700
Speaks non-English language at home	39.0	34.0 - 44.0	2,100	28.1	22.0 - 34.3	500	45.2	38.5 - 51.9	1,500
Lives in a high poverty neighborhood†	7.8	3.5 - 12.1	400	4.1	1.8 - 6.5	<100	9.9 *	3.4 - 16.5	300
Income as a percent of the Federal Poverty Guideline									
0-100%	38.2	32.8 - 43.7	1,900	27.6	20.0 - 35.2	500	43.8	36.7 - 50.9	1,400
101-200%	23.8	19.7 - 27.9	1,200	21.4	14.9 - 27.9	400	25.1	19.8 - 30.3	800
> 200%	38.0	32.9 - 43.1	1,800	51.0	42.8 - 59.2	800	31.2	25.0 - 37.4	1,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

‡ This indicator is only available for 2017-2018 (Santa Barbara County, n=373).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Barbara County was 589. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Clara County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	1.9 *	0.5 - 3.3	400	69.2	64.7 - 73.7	15,100	28.9	24.5 - 33.3	6,300
Health Status before Pregnancy												
In good to excellent health	95.8	94.0 - 97.7	20,800	--			95.1	92.6 - 97.6	14,200	97.5 *	95.3 - 99.7	6,100
Chronic conditions												
Diabetes	2.4	1.1 - 3.7	500	--			1.4 *	0.2 - 2.7	200	4.9 *	1.5 - 8.2	300
Hypertension	2.0	0.9 - 3.2	400	--			1.9 *	0.5 - 3.3	300	--		
Asthma	4.6	2.7 - 6.6	1,000	--			4.6	2.2 - 7.1	700	4.4 *	1.2 - 7.5	300
Nutrition and Weight												
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	--			43.4	37.4 - 49.3	6,500	41.3	32.7 - 49.8	2,600
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	--			24.1	19.2 - 28.9	3,600	25.6	17.5 - 33.7	1,600
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	35.8 *	4.7 - 66.9	100	18.4	13.8 - 22.9	2,700	14.7	9.2 - 20.3	900
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	--			19.2	14.1 - 24.4	2,600	26.1	18.3 - 33.9	1,500
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	--			36.5	30.5 - 42.5	5,000	28.2	19.9 - 36.5	1,700
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	--			8.6	5.1 - 12.0	1,300	7.8 *	2.8 - 12.7	500
Nutrition Program Participation												
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	--			27.4	21.9 - 32.9	3,800	13.7	7.7 - 19.7	800
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	--			11.8	7.8 - 15.7	1,800	4.8 *	1.7 - 8.0	300
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	--			3.7 *	0.9 - 6.5	500	--		
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	43.3 *	7.5 - 79.1	200	12.0	8.0 - 16.1	1,800	8.0	3.3 - 12.6	500
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	--			10.6	6.7 - 14.4	1,600	6.4 *	1.8 - 10.9	400
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	--			2.2 *	0.4 - 3.9	300	--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	--			6.5	3.2 - 9.8	1,000	--		
Woman or partner lost job	8.8	5.8 - 11.7	1,800	44.3 *	8.0 - 80.6	200	10.5	6.6 - 14.5	1,500	--		
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	--			6.5	3.6 - 9.3	900	3.9 *	0.9 - 6.9	200
Became separated or divorced	4.3	2.0 - 6.7	900	--			4.5 *	1.7 - 7.3	700	--		
Had no practical or emotional support	3.5	1.5 - 5.4	800	--			2.0 *	0.2 - 3.8	300	7.1 *	1.9 - 12.2	400
Substance Use												
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	--			3.2	1.5 - 5.0	500	3.7 *	0.3 - 7.2	200
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	--			1.3 *	0.3 - 2.3	200	--		
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	--			11.1	7.6 - 14.6	1,700	14.9	8.1 - 21.6	900
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	--			7.5	4.4 - 10.6	1,100	11.6	5.6 - 17.5	700
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	--			4.9	2.2 - 7.5	700	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	--			17.8	13.1 - 22.5	2,700	8.9	3.8 - 14.0	600
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	--			9.9	6.5 - 13.4	1,500	16.6	9.9 - 23.4	1,000
Postpartum birth control use	75.9	71.6 - 80.3	16,100	--			77.8	72.5 - 83.0	11,500	69.7	61.5 - 78.0	4,200
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	56.4 *	19.8 - 93.0	200	85.2	80.8 - 89.7	12,500	92.5 *	87.9 - 97.2	5,800
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	41.1 *	5.4 - 76.8	200	36.3	30.5 - 42.1	5,300	23.1	14.8 - 31.4	1,400
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	--			94.9	92.4 - 97.5	13,900	96.4 *	93.7 - 99.0	6,100
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	58.9 *	22.6 - 95.1	200	70.7	65.2 - 76.2	10,400	71.2	63.3 - 79.2	4,500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	--			93.0	89.8 - 96.1	13,400	94.9 *	91.7 - 98.1	5,900
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	35.3 *	4.2 - 66.4	100	52.3	46.2 - 58.4	7,400	50.1	41.0 - 59.2	3,100
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	61.8 *	24.5 - 99.1	200	81.0	75.6 - 86.4	9,500	89.8	84.3 - 95.3	3,900
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	--			39.7	33.0 - 46.5	4,600	39.9	29.4 - 50.3	1,700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	77.8	73.6	81.9	16,900	--				76.7	71.5	81.9	11,500	84.3	77.8	90.8	5,300
Initiated prenatal care in 1st trimester	91.7	88.4	95.0	19,400	--				90.5	86.2	94.8	13,300	--			
Received dental care during pregnancy	53.5	48.6	58.4	11,600	25.3 *	1.0	49.6	100	52.5	46.5	58.5	7,900	57.6	48.8	66.5	3,600
Received a Tdap vaccine during pregnancy	74.2	69.7	78.7	16,100	46.3 *	11.5	81.2	200	72.9	67.4	78.5	11,000	79.1	71.5	86.7	5,000
Received a flu shot during pregnancy	77.7	73.5	81.8	16,700	42.5 *	9.2	75.8	200	79.3	74.5	84.0	11,800	76.2	68.3	84.1	4,800
Had a postpartum medical visit	94.1	91.8	96.5	20,400	--				94.3	91.6	97.0	14,200	94.9 *	90.7	99.1	6,000
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	18.3	14.3	22.3	4,000	62.5 *	30.5	94.5	300	20.6	15.6	25.6	3,100	10.0	4.5	15.4	600
Uninsured	7.3	4.6	10.0	1,600	--				6.9	3.6	10.1	1,000	8.0 *	3.1	13.0	500
Private	72.9	68.4	77.4	15,800	--				70.7	65.1	76.3	10,600	81.1	74.1	88.1	5,100
Prenatal insurance																
Medi-Cal	26.4	21.9	30.9	5,700	--				28.1	22.5	33.6	4,200	18.8	11.6	25.9	1,200
Uninsured	0.9 *	0.1	1.7	200	--				--				--			
Private	71.4	66.8	76.0	15,400	--				69.5	63.8	75.1	10,400	79.5	72.2	86.8	5,000
Had any gaps in insurance during pregnancy	6.8	4.1	9.4	1,500	--				6.8	3.5	10.2	1,000	6.8 *	2.3	11.2	400
Maternal postpartum insurance																
Medi-Cal	21.4	17.2	25.6	4,600	70.4 *	41.5	99.4	300	22.9	17.7	28.1	3,400	14.7	8.0	21.4	900
Uninsured	5.0	2.7	7.4	1,100	--				4.5 *	1.8	7.1	700	5.7 *	1.0	10.3	400
Private	72.3	67.7	76.9	15,600	--				71.7	66.2	77.3	10,700	77.5	69.7	85.3	4,900
Infant health insurance																
Medi-Cal	30.5	25.8	35.3	6,500	--				32.0	26.2	37.8	4,700	22.7	14.8	30.5	1,400
Uninsured	--				--				--				--			
Private	68.0	63.3	72.8	14,600	--				67.1	61.3	73.0	9,900	74.5	66.5	82.5	4,700
Maternal Demographics																
First live birth	45.4	40.6	50.3	9,900	--				52.0	46.0	58.0	7,800	26.5	19.5	33.5	1,700
Less than high school education (or GED)	6.4	4.1	8.7	1,400	44.8 *	8.5	81.2	200	6.0	3.1	8.8	900	4.9 *	1.8	8.0	300
Unmarried	22.0	17.9	26.1	4,800	--				24.2	19.1	29.3	3,600	12.1	6.6	17.6	800
Race/Ethnicity																
White	23.3	19.0	27.6	4,600	--				23.5	18.3	28.6	3,200	24.1	15.9	32.4	1,400
Hispanic	31.2	26.4	36.0	6,100	--				32.9	26.9	38.8	4,500	23.2	15.3	31.2	1,300
Asian/Pacific Islander	43.3	38.2	48.4	8,500	--				41.5	35.2	47.8	5,600	50.3	41.0	59.7	2,900
Black	2.1	1.7	2.5	400	--				2.1	1.5	2.6	300	2.3	1.2	3.4	100
Born outside the U.S.	58.1	53.3	62.9	12,700	--				55.1	49.2	61.0	8,300	67.2	58.8	75.6	4,200
Speaks non-English language at home	49.1	44.2	54.1	10,600	69.2 *	42.1	96.3	300	49.8	43.8	55.8	7,400	46.2	37.3	55.2	2,900
Lives in a high poverty neighborhood†	--				--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Clara County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	6.4	4.1 - 8.7	1,400	12.3	8.8 - 15.8	2,600	18.4	14.6 - 22.2	3,900	62.9	58.1 - 67.7	13,500
Health Status before Pregnancy															
In good to excellent health	95.8	94.0 - 97.7	20,800	--			--			91.5 *	85.1 - 97.9	3,600	98.0 *	96.4 - 99.6	13,100
Chronic conditions															
Diabetes	2.4	1.1 - 3.7	500	--			--			--			2.3 *	0.6 - 3.9	300
Hypertension	2.0	0.9 - 3.2	400	--			--			5.6 *	0.7 - 10.5	200	1.1 *	0.1 - 2.0	100
Asthma	4.6	2.7 - 6.6	1,000	--			--			6.1 *	1.7 - 10.6	200	3.9	1.8 - 6.0	500
Nutrition and Weight															
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	20.3 *	3.9 - 36.8	300	23.0	9.6 - 36.4	600	29.9	19.3 - 40.5	1,200	52.4	46.2 - 58.6	7,000
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	16.7 *	5.1 - 28.3	200	43.4	28.0 - 58.9	1,100	25.3	16.4 - 34.3	1,000	20.4	15.5 - 25.2	2,700
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	55.4	36.6 - 74.2	700	21.4	9.1 - 33.8	600	32.1	21.9 - 42.4	1,300	9.1	5.9 - 12.3	1,200
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	16.5 *	2.2 - 30.8	200	18.2 *	5.8 - 30.7	400	21.6	12.2 - 31.1	800	22.1	16.7 - 27.6	2,800
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	48.3	27.6 - 68.9	500	37.9	21.7 - 54.2	900	44.8	32.9 - 56.8	1,600	29.9	24.0 - 35.7	3,700
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	27.1 *	10.6 - 43.6	400	20.3 *	7.3 - 33.3	500	18.3	9.4 - 27.3	700	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	79.5 *	63.0 - 96.1	1,100	66.1	49.4 - 82.8	1,600	42.1	30.8 - 53.3	1,600	4.0 *	1.2 - 6.7	500
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	31.5	15.4 - 47.5	400	26.6	13.4 - 39.8	700	19.6	10.3 - 28.8	800	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	--			--			--			--		
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	16.5 *	1.9 - 31.2	200	13.9 *	4.3 - 23.6	400	11.7 *	3.4 - 20.0	500	10.2	6.4 - 14.0	1,400
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	16.9 *	1.9 - 32.0	200	11.2 *	2.9 - 19.6	300	10.9 *	2.6 - 19.2	400	7.7	4.2 - 11.2	1,000
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	--			--			--			--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	--			8.3 *	0.8 - 15.8	200	11.4 *	3.5 - 19.3	400	2.0 *	0.1 - 3.9	300
Woman or partner lost job	8.8	5.8 - 11.7	1,800	22.2 *	5.3 - 39.1	300	14.3 *	3.7 - 24.8	300	13.8 *	5.3 - 22.3	500	4.6 *	1.7 - 7.4	600
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	12.2 *	2.1 - 22.2	200	7.5 *	0.8 - 14.2	200	12.0 *	4.6 - 19.4	500	3.2 *	1.0 - 5.3	400
Became separated or divorced	4.3	2.0 - 6.7	900	--			16.0 *	3.0 - 28.9	400	9.3 *	1.9 - 16.7	400	--		
Had no practical or emotional support	3.5	1.5 - 5.4	800	--			10.3 *	0.8 - 19.8	300	--			2.3 *	0.2 - 4.3	300
Substance Use															
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	--			--			6.8 *	1.7 - 11.9	300	1.8 *	0.4 - 3.3	200
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	--			--			--			--		
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	13.0 *	1.4 - 24.5	200	9.9 *	0.8 - 19.1	200	16.7	9.1 - 24.4	600	11.4	7.4 - 15.4	1,500
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	--			--			4.9 *	0.1 - 9.6	200	10.7	6.9 - 14.5	1,400
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	--			5.9 *	0.1 - 11.6	200	12.6 *	4.8 - 20.5	500	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	32.4	13.9 - 50.9	400	15.2 *	5.3 - 25.1	400	23.1	12.9 - 33.2	900	12.1	7.8 - 16.3	1,600
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	--			27.5	13.4 - 41.5	700	20.1	11.9 - 28.4	800	7.0	3.9 - 10.2	900
Postpartum birth control use	75.9	71.6 - 80.3	16,100	--			83.1 *	69.8 - 96.4	2,200	76.1	65.9 - 86.3	3,000	73.1	67.5 - 78.6	9,600
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	--			81.6 *	70.4 - 92.8	2,100	83.5	74.9 - 92.1	3,200	89.1	85.1 - 93.2	11,900
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	24.6 *	8.3 - 41.0	300	31.5	17.0 - 46.0	800	46.7	35.3 - 58.2	1,800	29.5	23.7 - 35.3	3,900
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	--			--			94.6 *	90.7 - 98.5	3,700	96.0	93.9 - 98.1	12,800
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	62.8	44.1 - 81.5	800	51.7	36.1 - 67.2	1,400	70.5	60.2 - 80.7	2,700	76.8	71.7 - 81.8	10,200
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	77.7 *	59.8 - 95.5	900	--			88.1 *	80.5 - 95.7	3,200	96.0	93.9 - 98.0	12,800
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	33.7	16.4 - 51.0	400	56.1	40.6 - 71.6	1,400	49.5	38.1 - 60.9	1,800	53.5	47.3 - 59.8	6,900
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	53.9	32.2 - 75.5	500	76.7 *	62.0 - 91.5	1,800	72.3	61.1 - 83.5	2,100	90.6	86.8 - 94.5	9,100
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	29.0 *	11.4 - 46.6	300	37.0	20.0 - 53.9	800	33.8	21.4 - 46.2	1,000	43.7	36.6 - 50.9	4,300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	73.6 - 81.9	16,900	66.5	46.9 - 86.1	900	63.9	49.1 - 78.6	1,700	74.5	64.7 - 84.3	2,900	82.4	77.5 - 87.3	11,100
Initiated prenatal care in 1st trimester	91.7	88.4 - 95.0	19,400	--			74.2 *	58.7 - 89.7	1,900	86.7 *	77.8 - 95.7	3,400	97.2 *	94.8 - 99.7	12,800
Received dental care during pregnancy	53.5	48.6 - 58.4	11,600	21.6 *	8.4 - 34.8	300	38.8	23.8 - 53.7	1,000	57.4	46.4 - 68.3	2,300	58.9	52.8 - 64.9	7,900
Received a Tdap vaccine during pregnancy	74.2	69.7 - 78.7	16,100	74.9 *	59.1 - 90.7	1,000	39.5	25.0 - 54.0	1,000	77.0	66.9 - 87.1	3,000	80.4	75.4 - 85.5	10,800
Received a flu shot during pregnancy	77.7	73.5 - 81.8	16,700	67.4	48.6 - 86.3	900	73.8	60.1 - 87.5	1,900	76.7	67.3 - 86.1	3,000	80.6	75.6 - 85.5	10,700
Had a postpartum medical visit	94.1	91.8 - 96.5	20,400	73.1 *	55.0 - 91.1	1,000	--			94.7 *	89.8 - 99.6	3,700	96.4 *	94.1 - 98.8	12,900
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	18.3	14.3 - 22.3	4,000	59.8	41.3 - 78.4	800	51.6	36.0 - 67.1	1,400	27.4	17.0 - 37.8	1,100	3.3 *	1.1 - 5.5	400
Uninsured	7.3	4.6 - 10.0	1,600	30.5 *	12.4 - 48.6	400	13.1 *	1.7 - 24.5	300	9.4 *	3.7 - 15.2	400	3.1 *	0.7 - 5.6	400
Private	72.9	68.4 - 77.4	15,800	7.5 *	0.6 - 14.5	100	34.7	20.4 - 49.0	900	61.3	50.3 - 72.3	2,400	92.0	88.5 - 95.4	12,300
Prenatal insurance															
Medi-Cal	26.4	21.9 - 30.9	5,700	90.4 *	81.9 - 98.9	1,200	69.9	56.1 - 83.7	1,800	39.0	28.0 - 50.1	1,500	6.0	2.8 - 9.3	800
Uninsured	0.9 *	0.1 - 1.7	200	--			--			--			--		
Private	71.4	66.8 - 76.0	15,400	--			28.2	14.5 - 41.9	700	57.9	46.8 - 69.1	2,300	92.1	88.6 - 95.6	12,300
Had any gaps in insurance during pregnancy	6.8	4.1 - 9.4	1,500	--			--			18.3	8.4 - 28.1	700	3.4 *	1.2 - 5.7	500
Maternal postpartum insurance															
Medi-Cal	21.4	17.2 - 25.6	4,600	61.3	42.0 - 80.6	800	58.4	43.0 - 73.8	1,500	37.3	26.1 - 48.5	1,500	3.9 *	1.2 - 6.5	500
Uninsured	5.0	2.7 - 7.4	1,100	23.3 *	6.3 - 40.2	300	11.4 *	1.0 - 21.8	300	4.9 *	1.2 - 8.7	200	--		
Private	72.3	67.7 - 76.9	15,600	--			30.1	16.1 - 44.1	800	56.0	44.7 - 67.3	2,200	92.8	89.1 - 96.4	12,400
Infant health insurance															
Medi-Cal	30.5	25.8 - 35.3	6,500	--			76.8	65.0 - 88.5	2,000	51.3	40.0 - 62.7	2,000	7.5	3.8 - 11.2	1,000
Uninsured	--			--			--			--			--		
Private	68.0	63.3 - 72.8	14,600	--			22.5	10.8 - 34.2	600	44.8	33.6 - 56.1	1,700	91.5	87.7 - 95.4	12,200
Maternal Demographics															
First live birth	45.4	40.6 - 50.3	9,900	26.6 *	8.4 - 44.8	400	34.1	19.1 - 49.2	900	49.1	37.9 - 60.4	1,900	48.6	42.4 - 54.7	6,500
Unmarried	22.0	17.9 - 26.1	4,800	73.5 *	56.6 - 90.3	1,000	54.2	38.6 - 69.8	1,400	42.0	30.7 - 53.3	1,700	4.7	2.4 - 7.0	600
Race/Ethnicity															
White	23.3	19.0 - 27.6	4,600	--			--			23.6	13.3 - 33.8	800	30.1	24.2 - 36.1	3,600
Hispanic	31.2	26.4 - 36.0	6,100	--			79.3 *	66.1 - 92.5	1,900	41.7	29.8 - 53.6	1,500	9.6	5.8 - 13.5	1,200
Asian/Pacific Islander	43.3	38.2 - 48.4	8,500	--			--			30.4	19.0 - 41.7	1,100	58.7	52.3 - 65.1	7,000
Black	2.1	1.7 - 2.5	400	--			2.8 *	0.8 - 4.8	<100	4.4	2.2 - 6.6	200	1.4	1.0 - 1.8	200
Born outside the U.S.	58.1	53.3 - 62.9	12,700	68.6 *	48.6 - 88.6	900	59.1	44.2 - 74.0	1,600	31.0	20.5 - 41.5	1,200	64.1	58.3 - 70.0	8,600
Speaks non-English language at home	49.1	44.2 - 54.1	10,600	77.8 *	61.2 - 94.4	1,100	61.9	47.4 - 76.4	1,600	25.6	15.2 - 35.9	1,000	50.3	44.1 - 56.5	6,800
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	19.4	14.9 - 23.9	3,800	77.3 *	57.9 - 96.7	900	60.5	45.0 - 76.0	1,300	31.3	19.5 - 43.1	1,100	3.4 *	0.8 - 6.1	400
101-200%	11.5	8.2 - 14.8	2,200	22.7 *	3.3 - 42.1	300	24.4	11.5 - 37.4	500	21.9	12.8 - 31.0	800	3.9 *	1.3 - 6.5	500
> 200%	69.1	64.1 - 74.1	13,400	--			15.1 *	5.5 - 24.6	300	46.8	35.3 - 58.3	1,700	92.7	89.0 - 96.3	11,400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Clara County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			21,800	92.9	90.2	- 95.6	19,800	7.1	4.4	- 9.8	1,500
Health Status before Pregnancy												
In good to excellent health	95.8	94.0	- 97.7	20,800	95.8	93.9	- 97.7	18,900	--			
Chronic conditions												
Diabetes	2.4	1.1	- 3.7	500	2.3	1.0	- 3.6	400	--			
Hypertension	2.0	0.9	- 3.2	400	2.2	1.0	- 3.5	400	--			
Asthma	4.6	2.7	- 6.6	1,000	4.5	2.5	- 6.4	900	--			
Nutrition and Weight												
Daily folic acid use, month before pregnancy	42.2	37.4	- 47.0	9,200	43.8	38.7	- 48.9	8,700	20.8 *	6.2	- 35.3	300
Overweight before pregnancy†	24.2	20.1	- 28.3	5,200	23.5	19.4	- 27.6	4,600	36.9	16.0	- 57.8	600
Obese before pregnancy†	17.6	14.0	- 21.2	3,800	17.2	13.5	- 21.0	3,400	21.0 *	6.3	- 35.7	300
Inadequate weight gain during pregnancy†	21.1	16.9	- 25.4	4,200	20.7	16.3	- 25.2	3,700	16.1 *	3.9	- 28.4	200
Excessive weight gain during pregnancy†	34.6	29.7	- 39.6	6,900	34.6	29.4	- 39.7	6,200	40.3	20.4	- 60.2	600
Food insecurity during pregnancy	9.1	6.1	- 12.1	2,000	9.2	6.0	- 12.3	1,800	--			
Nutrition Program Participation												
Participated in WIC during pregnancy	24.1	19.7	- 28.4	4,800	23.0	18.5	- 27.4	4,200	35.2	15.2	- 55.3	500
Received CalFresh (food stamps) during pregnancy	9.7	6.8	- 12.7	2,100	9.8	6.7	- 12.9	1,900	--			
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4	- 6.2	800	3.7 *	1.1	- 6.2	700	--			
Prenatal depressive symptoms†	11.4	8.2	- 14.6	2,500	11.2	7.9	- 14.5	2,200	--			
Postpartum depressive symptoms†	9.6	6.5	- 12.6	2,100	9.7	6.4	- 13.0	1,900	10.1 *	1.2	- 19.0	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.2 *	0.6	- 3.8	500	2.1 *	0.4	- 3.9	400	--			
Moved due to problems paying rent or mortgage	5.2	2.8	- 7.6	1,100	5.1	2.6	- 7.6	1,000	--			
Woman or partner lost job	8.8	5.8	- 11.7	1,800	8.9	5.8	- 12.1	1,700	--			
Woman or partner had pay or hours cut back	5.8	3.6	- 8.0	1,200	5.3	3.1	- 7.4	1,000	13.9 *	1.2	- 26.5	200
Became separated or divorced	4.3	2.0	- 6.7	900	4.8	2.2	- 7.3	900	--			
Had no practical or emotional support	3.5	1.5	- 5.4	800	3.5 *	1.3	- 5.6	700	--			
Substance Use												
Any smoking, 3 months before pregnancy	3.5	1.9	- 5.1	800	3.6	1.9	- 5.3	700	--			
Any smoking, 3rd trimester	--				--				--			
Any smoking, postpartum	1.6 *	0.5	- 2.7	400	1.8 *	0.6	- 3.0	400	--			
Any binge drinking, 3 months before pregnancy	12.1	9.0	- 15.2	2,600	10.3	7.4	- 13.1	2,000	37.6	17.0	- 58.2	500
Any alcohol use, 3rd trimester	8.6	5.9	- 11.3	1,900	9.1	6.1	- 12.0	1,800	--			
Any cannabis use during pregnancy	4.0	2.0	- 5.9	900	4.2	2.1	- 6.4	800	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	15.7	11.9	- 19.4	3,400	15.3	11.5	- 19.1	3,000	18.4 *	1.6	- 35.2	300
Unsure of pregnancy intentions	12.4	9.2	- 15.6	2,700	12.9	9.5	- 16.3	2,500	--			
Postpartum birth control use	75.9	71.6	- 80.3	16,100	75.0	70.4	- 79.7	14,500	84.9 *	73.3	- 96.5	1,300
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.8	83.4	- 90.3	18,600	86.1	82.4	- 89.9	16,800	--			
Infant always or often shared bed	32.5	27.8	- 37.3	6,900	32.6	27.7	- 37.6	6,300	29.7 *	10.6	- 48.9	400
Intended to breastfeed, before birth	95.4	93.5	- 97.3	20,400	95.1	93.0	- 97.2	18,500	--			
Intended to breastfeed exclusively, before birth	70.6	66.1	- 75.1	15,100	70.2	65.4	- 74.9	13,700	79.6 *	65.3	- 93.8	1,100
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	93.2	90.7	- 95.6	19,600	92.7	90.0	- 95.4	17,700	--			
Exclusive breastfeeding, 1 month after delivery	51.3	46.3	- 56.3	10,600	49.9	44.6	- 55.1	9,400	72.3 *	55.9	- 88.7	1,000
Any breastfeeding, 3 months after delivery	82.8	78.6	- 87.1	13,600	83.2	78.9	- 87.6	12,600	70.8 *	48.7	- 92.9	700
Exclusive breastfeeding, 3 months after delivery	39.4	33.8	- 44.9	6,400	39.7	33.8	- 45.5	6,000	32.4 *	11.4	- 53.5	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.6	81.9	16,900	76.5	72.0	80.9	15,100	--			
Initiated prenatal care in 1st trimester	91.7	88.4	95.0	19,400	92.3	88.9	95.8	17,800	81.2 *	65.0	97.4	1,200
Received dental care during pregnancy	53.5	48.6	58.4	11,600	54.5	49.4	59.6	10,800	43.2	24.2	62.1	700
Received a Tdap vaccine during pregnancy	74.2	69.7	78.7	16,100	75.1	70.4	79.8	14,900	60.3	40.7	79.8	900
Received a flu shot during pregnancy	77.7	73.5	81.8	16,700	78.2	73.9	82.6	15,300	69.5	52.0	86.9	1,100
Had a postpartum medical visit	94.1	91.8	96.5	20,400	93.9	91.4	96.4	18,600	--			
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	18.3	14.3	22.3	4,000	18.5	14.3	22.7	3,700	14.4 *	1.9	26.9	200
Uninsured	7.3	4.6	10.0	1,600	6.5	3.9	9.0	1,300	16.3 *	0.7	31.8	200
Private	72.9	68.4	77.4	15,800	73.5	68.8	78.1	14,500	68.1	49.8	86.3	1,000
Prenatal insurance												
Medi-Cal	26.4	21.9	30.9	5,700	25.9	21.2	30.6	5,100	28.4 *	10.4	46.4	400
Uninsured	0.9 *	0.1	1.7	200	0.9 *	0.0	1.7	200	--			
Private	71.4	66.8	76.0	15,400	71.9	67.1	76.6	14,100	68.6	50.4	86.8	1,000
Had any gaps in insurance during pregnancy	6.8	4.1	9.4	1,500	7.0	4.1	9.9	1,400	--			
Maternal postpartum insurance												
Medi-Cal	21.4	17.2	25.6	4,600	21.5	17.1	25.9	4,200	14.3 *	2.8	25.9	200
Uninsured	5.0	2.7	7.4	1,100	4.9	2.6	7.1	1,000	--			
Private	72.3	67.7	76.9	15,600	72.4	67.6	77.1	14,300	75.2 *	57.5	92.9	1,000
Infant health insurance												
Medi-Cal	30.5	25.8	35.3	6,500	30.2	25.3	35.2	5,900	32.0	13.6	50.4	500
Uninsured	--				--				--			
Private	68.0	63.3	72.8	14,600	68.5	63.5	73.5	13,300	64.0	45.3	82.7	1,000
Maternal Demographics												
Age												
15-19	1.9 *	0.5	3.3	400	2.1 *	0.6	3.6	400	--			
20-34	69.2	64.7	73.7	15,100	67.7	63.0	72.4	13,400	--			
35+	28.9	24.5	33.3	6,300	30.2	25.6	34.9	6,000	--			
First live birth	45.4	40.6	50.3	9,900	46.0	40.9	51.1	9,100	33.6	15.6	51.6	500
Less than high school education (or GED)	6.4	4.1	8.7	1,400	6.3	3.8	8.7	1,200	--			
Unmarried	22.0	17.9	26.1	4,800	22.8	18.5	27.1	4,500	14.8 *	4.0	25.5	200
Race/Ethnicity												
White	23.3	19.0	27.6	4,600	22.3	17.8	26.7	4,000	39.3	20.4	58.1	500
Hispanic	31.2	26.4	36.0	6,100	29.4	24.4	34.4	5,300	50.7	31.2	70.2	700
Asian/Pacific Islander	43.3	38.2	48.4	8,500	46.1	40.6	51.5	8,300	--			
Black	2.1	1.7	2.5	400	2.2	1.8	2.7	400	--			
Born outside the U.S.	58.1	53.3	62.9	12,700	59.3	54.4	64.3	11,800	36.9	18.1	55.7	600
Speaks non-English language at home	49.1	44.2	54.1	10,600	50.0	44.8	55.1	9,900	32.3	14.2	50.4	500
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	19.4	14.9	23.9	3,800	19.3	14.6	24.0	3,500	25.7 *	6.1	45.4	300
101-200%	11.5	8.2	14.8	2,200	11.4	8.1	14.8	2,100	--			
> 200%	69.1	64.1	74.1	13,400	69.3	64.1	74.5	12,400	67.0 *	45.8	88.3	800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Clara County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	19.4	14.9 - 23.9	3,800	11.5	8.2 - 14.8	2,200	69.1	64.1 - 74.1	13,400
Health Status before Pregnancy												
In good to excellent health	95.8	94.0 - 97.7	20,800	91.7 *	85.1 - 98.3	3,500	85.2 *	74.5 - 95.8	1,900	98.8 *	97.7 - 99.9	13,200
Chronic conditions												
Diabetes	2.4	1.1 - 3.7	500	--			--			2.1 *	0.5 - 3.8	300
Hypertension	2.0	0.9 - 3.2	400	4.4 *	0.4 - 8.4	200	--			0.9 *	0.1 - 1.8	100
Asthma	4.6	2.7 - 6.6	1,000	--			5.4 *	0.5 - 10.2	100	4.1	2.0 - 6.3	600
Nutrition and Weight												
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	25.0	12.9 - 37.1	900	28.0	13.9 - 42.1	600	50.9	44.9 - 57.0	6,800
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	32.7	20.2 - 45.2	1,200	25.2	13.0 - 37.3	600	21.3	16.5 - 26.1	2,900
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	33.6	21.4 - 45.7	1,200	35.6	20.5 - 50.6	800	11.2	7.8 - 14.5	1,500
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	18.5 *	7.4 - 29.6	600	30.2	15.7 - 44.7	600	20.6	15.4 - 25.8	2,600
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	40.4	26.4 - 54.5	1,300	27.1	12.8 - 41.4	500	33.6	27.7 - 39.5	4,200
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	31.8	19.7 - 43.9	1,200	15.9 *	4.8 - 27.0	300	--		
Nutrition Program Participation												
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	67.9	54.9 - 80.9	2,600	61.7	46.5 - 76.9	1,400	2.5 *	0.8 - 4.2	300
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	33.1	21.1 - 45.1	1,200	20.1 *	7.9 - 32.4	500	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	8.5 *	0.9 - 16.1	300	--			--		
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	22.1	10.7 - 33.4	800	7.6 *	0.4 - 14.9	200	8.1	4.8 - 11.3	1,100
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	14.6 *	4.9 - 24.2	500	17.3 *	5.6 - 29.1	400	6.4	3.2 - 9.6	900
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	8.8 *	1.0 - 16.7	300	--			--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	12.0 *	3.1 - 20.8	400	16.1 *	3.8 - 28.3	300	2.4 *	0.4 - 4.4	300
Woman or partner lost job	8.8	5.8 - 11.7	1,800	19.0	8.6 - 29.4	700	14.5 *	2.7 - 26.4	300	3.8 *	1.3 - 6.4	500
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	9.3 *	3.6 - 15.0	300	20.2 *	7.5 - 33.0	400	2.4 *	0.6 - 4.2	300
Became separated or divorced	4.3	2.0 - 6.7	900	14.5 *	4.6 - 24.4	500	--			--		
Had no practical or emotional support	3.5	1.5 - 5.4	800	--			10.6 *	0.5 - 20.7	200	2.1 *	0.1 - 4.1	300
Substance Use												
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	4.7 *	0.5 - 9.0	200	--			3.8	1.7 - 6.0	500
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	--			--			1.6 *	0.1 - 3.1	200
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	10.2 *	3.2 - 17.1	400	13.2 *	3.4 - 23.0	300	13.5	9.3 - 17.7	1,800
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	--			--			12.0	7.9 - 16.1	1,600
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	9.5 *	1.6 - 17.3	400	12.3 *	2.3 - 22.3	300	1.6 *	0.2 - 3.0	200
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	28.7	16.6 - 40.9	1,100	25.6	11.9 - 39.3	600	9.4	5.8 - 13.0	1,300
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	19.4	9.5 - 29.2	700	27.0	14.2 - 39.7	600	7.5	4.3 - 10.7	1,000
Postpartum birth control use	75.9	71.6 - 80.3	16,100	76.4	64.0 - 88.8	2,900	80.5 *	67.1 - 93.8	1,700	73.5	68.2 - 78.9	9,700
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	83.9	74.6 - 93.2	3,100	77.1	63.9 - 90.4	1,600	89.4	85.4 - 93.3	11,900
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	37.3	24.5 - 50.2	1,300	39.1	23.7 - 54.5	800	28.8	23.1 - 34.4	3,800
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	91.8 *	84.0 - 99.6	3,400	94.5 *	89.2 - 99.9	1,900	96.0	94.1 - 98.0	12,800
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	56.0	42.6 - 69.4	2,100	67.2	52.7 - 81.7	1,300	74.5	69.4 - 79.7	10,000
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	81.3	70.8 - 91.8	2,900	94.5 *	89.3 - 99.7	1,900	96.0	94.0 - 98.0	12,700
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	48.3	34.7 - 61.9	1,700	45.0	29.5 - 60.6	900	51.9	45.7 - 58.0	6,700
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	63.9	49.8 - 77.9	1,900	74.2 *	58.5 - 89.8	1,200	90.9	87.2 - 94.6	8,900
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	32.5	18.2 - 46.9	1,000	28.3	13.5 - 43.0	500	42.7	35.7 - 49.7	4,100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.6 - 81.9	16,900	71.9	59.9 - 83.9	2,700	70.2	56.9 - 83.5	1,600	81.2	76.3 - 86.1	10,900
Initiated prenatal care in 1st trimester	91.7	88.4 - 95.0	19,400	77.3	64.7 - 89.9	2,800	83.5 *	70.5 - 96.5	1,700	96.7 *	94.1 - 99.3	12,800
Received dental care during pregnancy	53.5	48.6 - 58.4	11,600	45.0	31.7 - 58.2	1,700	37.9	23.4 - 52.4	800	60.6	54.7 - 66.5	8,100
Received a Tdap vaccine during pregnancy	74.2	69.7 - 78.7	16,100	56.0	42.5 - 69.5	2,100	72.8	59.9 - 85.7	1,600	81.8	77.0 - 86.6	11,000
Received a flu shot during pregnancy	77.7	73.5 - 81.8	16,700	75.1	63.5 - 86.6	2,800	80.6 *	69.0 - 92.2	1,700	80.2	75.3 - 85.0	10,700
Had a postpartum medical visit	94.1	91.8 - 96.5	20,400	88.3 *	80.5 - 96.2	3,300	--			96.4 *	94.2 - 98.6	12,900
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	18.3	14.3 - 22.3	4,000	50.7	37.4 - 63.9	1,900	52.8	37.7 - 67.9	1,200	1.1 *	0.0 - 2.2	100
Uninsured	7.3	4.6 - 10.0	1,600	24.9	13.6 - 36.1	900	16.6 *	4.2 - 29.0	400	1.8 *	0.4 - 3.2	200
Private	72.9	68.4 - 77.4	15,800	22.8	11.5 - 34.0	900	28.3	15.1 - 41.4	600	95.5	93.4 - 97.6	12,800
Prenatal insurance												
Medi-Cal	26.4	21.9 - 30.9	5,700	76.4	65.0 - 87.9	2,900	71.5	58.4 - 84.7	1,600	3.5 *	1.2 - 5.7	500
Uninsured	0.9 *	0.1 - 1.7	200	--			--			--		
Private	71.4	66.8 - 76.0	15,400	20.6	9.4 - 31.9	800	26.1	13.3 - 38.8	600	94.2	91.4 - 96.9	12,500
Had any gaps in insurance during pregnancy	6.8	4.1 - 9.4	1,500	19.4	8.5 - 30.3	700	8.2 *	1.0 - 15.4	200	4.1 *	1.6 - 6.6	500
Maternal postpartum insurance												
Medi-Cal	21.4	17.2 - 25.6	4,600	60.0	46.9 - 73.1	2,300	59.5	44.4 - 74.5	1,300	2.9 *	0.6 - 5.2	400
Uninsured	5.0	2.7 - 7.4	1,100	19.5	8.7 - 30.3	700	--			1.6 *	0.1 - 3.2	200
Private	72.3	67.7 - 76.9	15,600	19.7	9.0 - 30.5	700	34.6	19.8 - 49.4	700	94.1	91.1 - 97.1	12,600
Infant health insurance												
Medi-Cal	30.5	25.8 - 35.3	6,500	91.6 *	85.1 - 98.2	3,400	80.8 *	69.0 - 92.7	1,700	5.7	2.7 - 8.7	800
Uninsured	--			--			--			--		
Private	68.0	63.3 - 72.8	14,600	7.5 *	1.0 - 14.0	300	19.2 *	7.3 - 31.0	400	92.8	89.7 - 96.0	12,400
Maternal Demographics												
First live birth	45.4	40.6 - 50.3	9,900	30.7	17.9 - 43.4	1,200	33.8	19.5 - 48.1	800	50.1	44.1 - 56.1	6,700
Less than high school education (or GED)	6.4	4.1 - 8.7	1,400	23.0	13.3 - 32.6	900	12.2 *	0.8 - 23.7	300	--		
Unmarried	22.0	17.9 - 26.1	4,800	54.5	41.1 - 67.8	2,000	46.2	31.5 - 61.0	1,000	7.8	4.7 - 10.9	1,000
Race/Ethnicity												
White	23.3	19.0 - 27.6	4,600	8.6 *	0.9 - 16.3	300	--			31.9	26.0 - 37.9	3,800
Hispanic	31.2	26.4 - 36.0	6,100	73.2	61.1 - 85.2	2,700	72.8	59.0 - 86.6	1,500	8.9	5.6 - 12.1	1,100
Asian/Pacific Islander	43.3	38.2 - 48.4	8,500	15.5 *	5.0 - 25.9	600	16.5 *	4.1 - 29.0	300	57.4	51.1 - 63.6	6,800
Black	2.1	1.7 - 2.5	400	2.7 *	1.1 - 4.3	<100	3.5 *	1.2 - 5.8	<100	1.7	1.1 - 2.3	200
Born outside the U.S.	58.1	53.3 - 62.9	12,700	60.1	47.1 - 73.2	2,300	43.6	28.7 - 58.4	1,000	59.2	53.3 - 65.0	8,000
Speaks non-English language at home	49.1	44.2 - 54.1	10,600	57.5	44.5 - 70.6	2,200	49.4	34.3 - 64.5	1,100	44.6	38.5 - 50.6	6,000
Lives in a high poverty neighborhood†	--			--			--			--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Clara County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			Low: <10% of Residents Below Poverty†			Moderate-Low: 10-19% of Residents Below Poverty†			Moderate-High: 20-29% of Residents Below Poverty†			High: ≥30% of Residents Below Poverty†		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	68.7	64.2 - 73.3	14,700	25.2	20.9 - 29.4	5,400	5.9	3.5 - 8.3	1,300	--		
Health Status before Pregnancy															
In good to excellent health	95.8	94.0 - 97.7	20,800	97.1 *	95.1 - 99.1	14,200	94.3 *	90.7 - 98.0	5,100	--			--		
Chronic conditions															
Diabetes	2.4	1.1 - 3.7	500	2.0 *	0.5 - 3.5	300	3.0 *	0.2 - 5.8	200	--			--		
Hypertension	2.0	0.9 - 3.2	400	1.3 *	0.4 - 2.3	200	2.7 *	0.1 - 5.2	100	--			--		
Asthma	4.6	2.7 - 6.6	1,000	4.1 *	1.7 - 6.5	600	7.6	3.5 - 11.7	400	--			--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	45.4	39.4 - 51.4	6,700	33.9	24.8 - 42.9	1,800	40.1	19.2 - 60.9	500	--		
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	22.1	17.2 - 26.9	3,200	30.8	21.9 - 39.8	1,600	25.2 *	8.4 - 42.0	300	--		
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	12.2	8.4 - 15.9	1,800	29.9	21.3 - 38.4	1,600	27.9 *	8.7 - 47.1	300	--		
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	20.9	15.8 - 25.9	2,800	19.0	10.4 - 27.5	900	--			--		
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	27.7	22.1 - 33.3	3,800	53.7	43.4 - 64.0	2,500	44.7	22.4 - 67.1	500	--		
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	7.2	3.9 - 10.6	1,000	12.6	5.6 - 19.7	700	20.2 *	3.8 - 36.6	200	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	15.5	10.9 - 20.1	2,100	36.4	27.0 - 45.9	1,900	63.1	42.0 - 84.2	700	--		
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	7.8	4.5 - 11.1	1,100	11.8	5.8 - 17.8	600	23.6 *	5.8 - 41.4	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	2.3 *	0.2 - 4.5	300	6.2 *	0.7 - 11.7	300	--			--		
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	11.3	7.3 - 15.3	1,700	9.0 *	3.6 - 14.5	500	21.7 *	4.3 - 39.1	300	--		
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	10.3	6.3 - 14.3	1,500	4.6 *	1.2 - 7.9	200	26.0 *	7.2 - 44.7	300	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	--			6.1 *	0.4 - 11.7	300	--			--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	4.2 *	1.5 - 6.8	600	7.1 *	1.5 - 12.7	400	--			--		
Woman or partner lost job	8.8	5.8 - 11.7	1,800	8.4	4.8 - 12.0	1,200	8.6 *	3.1 - 14.2	400	--			--		
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	5.7	3.0 - 8.4	800	4.7 *	1.7 - 7.8	200	--			--		
Became separated or divorced	4.3	2.0 - 6.7	900	3.2 *	0.8 - 5.6	500	8.4 *	1.8 - 14.9	400	--			--		
Had no practical or emotional support	3.5	1.5 - 5.4	800	3.8 *	1.3 - 6.3	600	--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	3.3	1.4 - 5.3	500	5.1 *	1.4 - 8.9	300	--			--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	1.8 *	0.3 - 3.2	300	--			--			--		
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	10.5	6.9 - 14.1	1,500	18.4	11.0 - 25.8	1,000	--			--		
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	10.0	6.4 - 13.7	1,500	4.6 *	0.8 - 8.3	200	--			--		
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	2.9 *	0.9 - 4.9	400	5.7 *	1.1 - 10.4	300	--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	13.6	9.2 - 17.9	2,000	16.2	9.1 - 23.3	900	34.2 *	13.7 - 54.8	400	--		
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	11.1	7.4 - 14.8	1,600	15.8	8.6 - 23.0	800	--			--		
Postpartum birth control use	75.9	71.6 - 80.3	16,100	73.9	68.4 - 79.4	10,600	79.4	71.3 - 87.5	4,200	82.5 *	66.2 - 98.7	1,000	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	86.7	82.3 - 91.1	12,500	86.3	79.6 - 93.0	4,600	86.3 *	73.8 - 98.7	1,100	--		
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	30.5	24.7 - 36.3	4,300	31.8	22.7 - 40.9	1,700	56.2	35.7 - 76.8	700	--		
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	95.4	93.3 - 97.5	13,800	94.5 *	89.4 - 99.7	5,000	--			--		
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	73.3	68.0 - 78.6	10,600	63.1	53.6 - 72.6	3,300	73.8 *	55.1 - 92.5	900	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	95.2	92.9 - 97.6	13,500	87.3	80.5 - 94.2	4,500	--			--		
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	51.6	45.5 - 57.8	7,200	48.4	38.4 - 58.4	2,400	61.7	41.2 - 82.2	800	--		
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	86.9	82.5 - 91.2	9,600	75.0	64.5 - 85.5	3,000	65.2 *	43.1 - 87.3	700	--		
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	40.4	33.5 - 47.2	4,400	36.3	25.5 - 47.2	1,400	39.2	16.4 - 62.1	400	--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	77.8	73.6	81.9	16,900	77.0	71.8	82.3	11,300	79.3	71.5	87.1	4,300	78.1 *	61.1	95.2	1,000	--			
Initiated prenatal care in 1st trimester	91.7	88.4	95.0	19,400	92.2	88.1	96.3	13,100	89.5 *	82.5	96.5	4,700	--				--			
Received dental care during pregnancy	53.5	48.6	58.4	11,600	57.2	51.2	63.1	8,400	45.3	35.7	54.9	2,400	49.1	28.0	70.2	600	--			
Received a Tdap vaccine during pregnancy	74.2	69.7	78.7	16,100	76.0	70.5	81.4	11,100	70.8	61.6	80.0	3,800	65.9 *	45.7	86.1	800	--			
Received a flu shot during pregnancy	77.7	73.5	81.8	16,700	78.5	73.5	83.6	11,300	74.6	66.2	83.1	4,000	80.1 *	62.2	97.9	1,000	--			
Had a postpartum medical visit	94.1	91.8	96.5	20,400	94.6	91.9	97.3	13,800	94.9 *	90.4	99.3	5,100	--				--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	18.3	14.3	22.3	4,000	12.8	8.3	17.2	1,900	25.9	17.5	34.3	1,400	49.3	28.1	70.4	600	--			
Uninsured	7.3	4.6	10.0	1,600	4.6 *	1.8	7.4	700	13.0	6.2	19.8	700	--				--			
Private	72.9	68.4	77.4	15,800	81.0	76.0	86.1	11,800	59.3	49.8	68.8	3,200	39.5	18.6	60.3	500	--			
Prenatal insurance																				
Medi-Cal	26.4	21.9	30.9	5,700	17.7	12.6	22.7	2,600	40.2	30.7	49.8	2,100	63.4	42.6	84.1	800	--			
Uninsured	0.9 *	0.1	1.7	200	--				--				--				--			
Private	71.4	66.8	76.0	15,400	79.7	74.6	84.9	11,600	57.8	48.2	67.4	3,100	36.6	15.9	57.4	500	--			
Had any gaps in insurance during pregnancy	6.8	4.1	9.4	1,500	6.4	3.1	9.6	900	9.9 *	4.0	15.9	500	--				--			
Maternal postpartum insurance																				
Medi-Cal	21.4	17.2	25.6	4,600	14.0	9.3	18.7	2,000	31.1	22.4	39.9	1,700	62.3	41.9	82.6	700	--			
Uninsured	5.0	2.7	7.4	1,100	3.3 *	1.1	5.5	500	10.4 *	3.6	17.2	600	--				--			
Private	72.3	67.7	76.9	15,600	81.1	76.0	86.2	11,800	57.9	48.3	67.5	3,100	33.3 *	13.3	53.2	400	--			
Infant health insurance																				
Medi-Cal	30.5	25.8	35.3	6,500	20.5	15.2	25.8	2,900	46.4	36.6	56.2	2,500	75.6 *	57.8	93.3	1,000	--			
Uninsured	--				--				--				--				--			
Private	68.0	63.3	72.8	14,600	78.2	72.9	83.6	11,200	51.2	41.5	61.0	2,700	24.4 *	6.7	42.2	300	--			
Maternal Demographics																				
Age																				
15-19	1.9 *	0.5	3.3	400	--				2.5 *	0.3	4.7	100	--				--			
20-34	69.2	64.7	73.7	15,100	66.2	60.5	71.8	9,700	75.3	67.2	83.4	4,000	69.7 *	50.6	88.8	900	--			
35+	28.9	24.5	33.3	6,300	32.6	27.0	38.2	4,800	22.2	14.3	30.1	1,200	22.4 *	6.1	38.7	300	--			
First live birth	45.4	40.6	50.3	9,900	46.6	40.6	52.6	6,800	43.7	34.1	53.3	2,300	32.7 *	13.0	52.3	400	--			
Less than high school education (or GED)	6.4	4.1	8.7	1,400	3.5 *	1.4	5.6	500	12.1	5.8	18.3	600	--				--			
Unmarried	22.0	17.9	26.1	4,800	13.9	9.8	17.9	2,000	37.5	28.0	47.0	2,000	55.6	34.9	76.4	700	--			
Race/Ethnicity																				
White	23.3	19.0	27.6	4,600	25.9	20.4	31.4	3,400	19.8	12.1	27.5	1,000	--				--			
Hispanic	31.2	26.4	36.0	6,100	19.1	13.9	24.3	2,500	55.6	45.8	65.4	2,700	60.2	38.7	81.7	700	--			
Asian/Pacific Islander	43.3	38.2	48.4	8,500	53.3	46.9	59.6	7,000	22.0	13.6	30.4	1,100	--				--			
Black	2.1	1.7	2.5	400	1.7	1.2	2.2	200	2.6	1.3	3.9	100	4.0 *	0.3	7.7	<100	--			
Born outside the U.S.	58.1	53.3	62.9	12,700	59.9	54.0	65.8	8,800	53.9	44.5	63.4	2,900	49.3	28.3	70.4	600	--			
Speaks non-English language at home	49.1	44.2	54.1	10,600	48.0	41.9	54.0	7,000	47.9	38.2	57.6	2,500	61.8	42.3	81.4	800	--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	19.4	14.9	23.9	3,800	12.6	7.7	17.4	1,600	33.9	23.8	43.9	1,700	42.0	18.9	65.2	400	--			
101-200%	11.5	8.2	14.8	2,200	9.4	5.7	13.2	1,200	9.8	4.6	14.9	500	39.5	16.4	62.5	400	--			
> 200%	69.1	64.1	74.1	13,400	78.0	72.3	83.7	10,200	56.4	46.2	66.5	2,800	18.5 *	0.5	36.5	200	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Clara County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			21,800	26.4	21.9	30.9	5,700	71.4	66.8	76.0	15,400
Health Status before Pregnancy												
In good to excellent health	95.8	94.0	97.7	20,800	88.7	82.7	94.7	5,000	98.3 *	97.0	99.5	15,200
Chronic conditions												
Diabetes	2.4	1.1	3.7	500	3.7 *	0.7	6.7	200	2.0 *	0.6	3.5	300
Hypertension	2.0	0.9	3.2	400	3.9 *	0.4	7.4	200	1.3 *	0.3	2.2	200
Asthma	4.6	2.7	6.6	1,000	6.2 *	1.3	11.1	300	4.3	2.2	6.3	700
Nutrition and Weight												
Daily folic acid use, month before pregnancy	42.2	37.4	47.0	9,200	27.0	17.6	36.5	1,500	47.2	41.5	53.0	7,300
Overweight before pregnancy†	24.2	20.1	28.3	5,200	31.8	22.3	41.4	1,700	20.8	16.4	25.3	3,200
Obese before pregnancy†	17.6	14.0	21.2	3,800	28.9	20.1	37.7	1,600	14.1	10.3	18.0	2,200
Inadequate weight gain during pregnancy†	21.1	16.9	25.4	4,200	18.1	10.0	26.1	900	21.9	16.8	27.0	3,100
Excessive weight gain during pregnancy†	34.6	29.7	39.6	6,900	40.3	29.7	51.0	2,000	32.0	26.4	37.7	4,600
Food insecurity during pregnancy	9.1	6.1	12.1	2,000	29.0	19.4	38.7	1,600	1.8 *	0.6	3.1	300
Nutrition Program Participation												
Participated in WIC during pregnancy	24.1	19.7	28.4	4,800	69.8	59.9	79.7	3,800	6.4	3.5	9.3	900
Received CalFresh (food stamps) during pregnancy	9.7	6.8	12.7	2,100	33.1	23.8	42.5	1,900	1.6 *	0.1	3.0	200
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4	6.2	800	8.6 *	1.2	15.9	400	--			
Prenatal depressive symptoms†	11.4	8.2	14.6	2,500	19.1	10.8	27.4	1,100	8.8	5.6	12.0	1,400
Postpartum depressive symptoms†	9.6	6.5	12.6	2,100	16.4	8.6	24.2	900	7.4	4.2	10.6	1,100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.2 *	0.6	3.8	500	5.8 *	0.5	11.2	300	--			
Moved due to problems paying rent or mortgage	5.2	2.8	7.6	1,100	16.1	8.1	24.1	900	1.5 *	0.1	3.0	200
Woman or partner lost job	8.8	5.8	11.7	1,800	20.2	11.8	28.7	1,100	5.0	2.3	7.8	800
Woman or partner had pay or hours cut back	5.8	3.6	8.0	1,200	11.5	5.8	17.1	600	3.5 *	1.3	5.6	500
Became separated or divorced	4.3	2.0	6.7	900	15.2	7.2	23.3	900	--			
Had no practical or emotional support	3.5	1.5	5.4	800	8.0 *	2.3	13.7	500	1.8 *	0.1	3.6	300
Substance Use												
Any smoking, 3 months before pregnancy	3.5	1.9	5.1	800	4.5 *	1.2	7.7	300	3.3	1.4	5.2	500
Any smoking, 3rd trimester	--				--				--			
Any smoking, postpartum	1.6 *	0.5	2.7	400	2.4 *	0.1	4.7	100	1.4 *	0.1	2.7	200
Any binge drinking, 3 months before pregnancy	12.1	9.0	15.2	2,600	11.9	6.0	17.8	700	11.8	8.1	15.5	1,800
Any alcohol use, 3rd trimester	8.6	5.9	11.3	1,900	4.5 *	0.3	8.8	300	9.8	6.4	13.3	1,500
Any cannabis use during pregnancy	4.0	2.0	5.9	900	10.5 *	4.1	16.9	600	1.7 *	0.4	3.0	300
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	15.7	11.9	19.4	3,400	30.6	21.2	39.9	1,700	10.5	6.8	14.2	1,600
Unsure of pregnancy intentions	12.4	9.2	15.6	2,700	22.1	13.7	30.4	1,200	8.3	5.2	11.4	1,300
Postpartum birth control use	75.9	71.6	80.3	16,100	79.3	70.0	88.6	4,400	74.3	69.2	79.3	11,200
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	86.8	83.4	90.3	18,600	83.1	75.2	91.0	4,600	88.2	84.3	92.0	13,500
Infant always or often shared bed	32.5	27.8	37.3	6,900	39.7	29.6	49.8	2,100	29.8	24.4	35.3	4,500
Intended to breastfeed, before birth	95.4	93.5	97.3	20,400	96.8 *	94.2	99.5	5,300	94.7	92.2	97.2	14,500
Intended to breastfeed exclusively, before birth	70.6	66.1	75.1	15,100	58.6	48.4	68.9	3,200	75.8	70.9	80.6	11,600
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	93.2	90.7	95.6	19,600	86.8	80.0	93.6	4,600	95.2	92.7	97.6	14,500
Exclusive breastfeeding, 1 month after delivery	51.3	46.3	56.3	10,600	47.8	37.4	58.3	2,600	53.1	47.3	58.9	7,900
Any breastfeeding, 3 months after delivery	82.8	78.6	87.1	13,600	68.5	58.0	79.0	3,000	88.1	83.9	92.3	10,200
Exclusive breastfeeding, 3 months after delivery	39.4	33.8	44.9	6,400	32.2	21.5	42.8	1,400	43.4	36.7	50.0	4,900

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.6	81.9	16,900	64.7	54.9	74.5	3,700	82.6	78.1	87.1	12,700
Initiated prenatal care in 1st trimester	91.7	88.4	95.0	19,400	76.6	66.6	86.5	4,100	96.7 *	94.2	99.3	14,700
Received dental care during pregnancy	53.5	48.6	58.4	11,600	44.2	34.1	54.2	2,500	57.5	51.8	63.2	8,900
Received a Tdap vaccine during pregnancy	74.2	69.7	78.7	16,100	61.8	51.6	72.0	3,500	78.6	73.7	83.5	12,100
Received a flu shot during pregnancy	77.7	73.5	81.8	16,700	71.6	62.2	81.0	4,000	80.7	76.2	85.2	12,300
Had a postpartum medical visit	94.1	91.8	96.5	20,400	89.2 *	82.5	95.9	5,100	96.0	93.9	98.0	14,700
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	18.3	14.3	22.3	4,000	67.9	58.4	77.3	3,800	0.9 *	0.1	1.8	100
Uninsured	7.3	4.6	10.0	1,600	20.8	12.2	29.3	1,200	--			
Private	72.9	68.4	77.4	15,800	10.8	5.1	16.4	600	97.4 *	95.8	98.9	15,000
Had any gaps in insurance during pregnancy	6.8	4.1	9.4	1,500	15.2	7.6	22.7	900	2.4 *	0.3	4.5	400
Maternal postpartum insurance												
Medi-Cal	21.4	17.2	25.6	4,600	76.5	67.6	85.4	4,300	--			
Uninsured	5.0	2.7	7.4	1,100	16.7	8.6	24.7	900	--			
Private	72.3	67.7	76.9	15,600	6.2 *	1.3	11.2	300	97.7 *	95.7	99.8	15,100
Infant health insurance												
Medi-Cal	30.5	25.8	35.3	6,500	94.1 *	90.1	98.2	5,200	7.7	4.2	11.2	1,200
Uninsured	--				--				--			
Private	68.0	63.3	72.8	14,600	4.8 *	1.0	8.5	300	92.0	88.5	95.5	14,100
Maternal Demographics												
Age												
15-19	1.9 *	0.5	3.3	400	5.9 *	1.0	10.8	300	--			
20-34	69.2	64.7	73.7	15,100	73.4	64.6	82.2	4,200	67.1	61.8	72.5	10,400
35+	28.9	24.5	33.3	6,300	20.7	12.8	28.6	1,200	32.4	27.0	37.7	5,000
First live birth	45.4	40.6	50.3	9,900	32.6	22.9	42.3	1,900	49.3	43.6	55.1	7,600
Less than high school education (or GED)	6.4	4.1	8.7	1,400	22.9	14.6	31.2	1,200	--			
Unmarried	22.0	17.9	26.1	4,800	57.3	47.2	67.4	3,200	8.6	5.6	11.6	1,300
Race/Ethnicity												
White	23.3	19.0	27.6	4,600	6.4 *	1.8	10.9	400	30.8	25.2	36.5	4,200
Hispanic	31.2	26.4	36.0	6,100	71.2	61.9	80.6	3,900	14.6	10.3	19.0	2,000
Asian/Pacific Islander	43.3	38.2	48.4	8,500	19.6	10.8	28.3	1,100	52.7	46.6	58.8	7,200
Black	2.1	1.7	2.5	400	2.9	1.6	4.1	200	1.8	1.2	2.3	200
Born outside the U.S.	58.1	53.3	62.9	12,700	55.9	45.9	66.0	3,200	57.6	52.0	63.3	8,900
Speaks non-English language at home	49.1	44.2	54.1	10,600	54.0	43.9	64.0	3,100	46.2	40.4	52.0	7,100
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	19.4	14.9	23.9	3,800	58.3	47.6	69.0	2,900	5.6 *	2.2	9.0	800
101-200%	11.5	8.2	14.8	2,200	32.4	22.4	42.4	1,600	4.2	1.9	6.5	600
> 200%	69.1	64.1	74.1	13,400	9.3 *	3.4	15.2	500	90.2	86.3	94.1	12,500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Clara County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	31.2	26.4 - 36.0	6,100	2.1	1.7 - 2.5	400	23.3	19.0 - 27.6	4,600	43.3	38.2 - 48.4	8,500
Health Status before Pregnancy															
In good to excellent health	95.8	94.0 - 97.7	20,800	89.3	83.7 - 95.0	5,400	90.2 *	81.5 - 99.0	400	--			--		
Chronic conditions															
Diabetes	2.4	1.1 - 3.7	500	3.0 *	0.3 - 5.7	200	--			--			2.2 *	0.1 - 4.4	200
Hypertension	2.0	0.9 - 3.2	400	3.2 *	0.7 - 5.8	200	--			--			1.5 *	0.1 - 3.0	100
Asthma	4.6	2.7 - 6.6	1,000	5.8 *	1.3 - 10.3	300	13.1 *	3.5 - 22.6	<100	6.0 *	1.5 - 10.5	300	2.9 *	0.3 - 5.6	200
Nutrition and Weight															
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	26.3	18.2 - 34.5	1,600	28.3	16.1 - 40.4	100	50.8	40.4 - 61.2	2,300	48.2	40.1 - 56.2	4,100
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	33.1	24.3 - 42.0	2,000	22.1	11.2 - 32.9	<100	16.8	9.6 - 24.1	800	19.7	13.8 - 25.7	1,700
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	36.5	27.4 - 45.7	2,200	35.5	21.4 - 49.7	100	11.2	5.2 - 17.3	500	7.6	3.8 - 11.5	600
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	20.8	13.0 - 28.7	1,100	20.1 *	7.3 - 32.9	<100	14.0	6.8 - 21.2	600	23.7	16.5 - 30.9	1,900
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	45.8	35.8 - 55.9	2,500	48.7	34.3 - 63.1	200	35.4	24.8 - 46.1	1,500	26.1	18.8 - 33.3	2,100
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	23.2	14.8 - 31.6	1,400	--			--			3.2 *	0.5 - 5.9	300
Nutrition Program Participation															
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	62.2	52.7 - 71.7	3,600	37.1	23.0 - 51.1	100	10.5 *	3.0 - 17.9	400	5.5 *	1.9 - 9.2	400
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	24.0	15.8 - 32.1	1,400	19.9 *	7.3 - 32.5	<100	5.3 *	0.5 - 10.1	200	4.0 *	0.9 - 7.0	300
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	5.8 *	0.3 - 11.3	300	--			--			--		
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	17.6	9.9 - 25.3	1,100	17.6 *	5.1 - 30.1	<100	6.9 *	2.0 - 11.8	300	11.3	6.2 - 16.4	1,000
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	16.6	9.2 - 24.1	1,000	12.7 *	2.6 - 22.7	<100	--			6.4 *	2.2 - 10.6	500
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	--			--			--			--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	9.9 *	3.4 - 16.4	600	--			--			3.5 *	0.4 - 6.7	300
Woman or partner lost job	8.8	5.8 - 11.7	1,800	16.1	8.5 - 23.7	900	9.5 *	1.6 - 17.4	<100	9.7 *	3.0 - 16.5	400	4.9 *	1.5 - 8.3	400
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	11.1	5.4 - 16.9	600	11.8 *	3.3 - 20.3	<100	5.4 *	0.6 - 10.2	200	2.5 *	0.3 - 4.8	200
Became separated or divorced	4.3	2.0 - 6.7	900	9.8 *	3.3 - 16.2	600	--			--			--		
Had no practical or emotional support	3.5	1.5 - 5.4	800	8.8 *	2.7 - 14.9	500	--			--			--		
Often experienced racism over her lifetime	8.6	5.8 - 11.4	1,900	14.0	7.0 - 20.9	800	20.2	9.4 - 31.0	<100	5.0 *	0.4 - 9.5	200	6.6 *	2.5 - 10.7	600
Substance Use															
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	3.9 *	0.7 - 7.0	200	--			7.2 *	2.0 - 12.5	300	--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	--			--			--			--		
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	14.2	8.1 - 20.3	900	8.9 *	0.3 - 17.4	<100	21.9	13.5 - 30.4	1,000	4.1 *	1.2 - 7.0	300
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	4.7 *	1.1 - 8.3	300	--			17.6	9.2 - 25.9	800	6.9 *	2.8 - 11.0	600
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	6.2 *	1.1 - 11.4	400	--			6.9 *	2.0 - 11.8	300	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	28.2	19.3 - 37.2	1,700	24.5	13.6 - 35.3	100	12.1 *	4.6 - 19.6	600	9.9	5.3 - 14.6	800
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	17.5	10.5 - 24.5	1,100	12.6 *	3.4 - 21.7	<100	6.7 *	2.0 - 11.5	300	10.8	5.8 - 15.7	900
Postpartum birth control use	75.9	71.6 - 80.3	16,100	86.5	79.9 - 93.2	5,200	76.9	65.0 - 88.7	300	81.4	73.4 - 89.4	3,700	67.0	59.2 - 74.9	5,500
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	82.5	74.9 - 90.2	4,900	85.7 *	75.0 - 96.4	300	87.0	79.8 - 94.2	4,000	88.6	83.4 - 93.9	7,400
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	34.3	25.0 - 43.5	2,000	38.3	24.3 - 52.2	200	23.6	14.8 - 32.4	1,100	36.1	28.3 - 43.9	3,000
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	--			--			92.9 *	88.3 - 97.5	4,300	96.4 *	93.8 - 98.9	8,100
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	58.9	49.2 - 68.5	3,500	63.6	49.6 - 77.5	300	83.9	76.9 - 90.8	3,800	70.4	63.3 - 77.5	5,900
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	85.3	78.0 - 92.6	4,900	--			95.2 *	91.3 - 99.2	4,400	96.3 *	93.8 - 98.7	7,900
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	41.3	31.8 - 50.9	2,400	58.2	43.7 - 72.8	200	70.6	61.5 - 79.7	3,000	44.4	36.2 - 52.6	3,600
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	68.0	57.8 - 78.3	3,200	81.6 *	69.0 - 94.1	300	90.6 *	83.8 - 97.4	3,000	89.2	84.3 - 94.1	6,000
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	27.2	17.9 - 36.5	1,300	50.1	34.1 - 66.2	200	62.7	51.2 - 74.2	2,000	35.4	26.5 - 44.4	2,400

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MIHA Data Snapshot, Santa Clara County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	73.6 - 81.9	16,900	72.4	63.7 - 81.2	4,400	68.9	55.7 - 82.0	300	79.4	70.8 - 88.1	3,600	79.4	72.9 - 86.0	6,800
Initiated prenatal care in 1st trimester	91.7	88.4 - 95.0	19,400	86.6	79.1 - 94.0	5,100	88.8 *	79.3 - 98.3	300	--			93.6 *	88.6 - 98.7	7,700
Received dental care during pregnancy	53.5	48.6 - 58.4	11,600	43.3	34.0 - 52.5	2,700	39.4	26.1 - 52.7	200	64.9	55.1 - 74.8	3,000	56.9	49.1 - 64.7	4,800
Received a Tdap vaccine during pregnancy	74.2	69.7 - 78.7	16,100	63.5	54.1 - 72.8	3,900	71.4	58.2 - 84.7	300	75.2	65.4 - 85.0	3,500	78.4	71.5 - 85.3	6,700
Received a flu shot during pregnancy	77.7	73.5 - 81.8	16,700	72.5	63.8 - 81.3	4,400	74.7	62.8 - 86.5	300	75.9	66.6 - 85.3	3,400	82.3	76.4 - 88.3	6,900
Had a postpartum medical visit	94.1	91.8 - 96.5	20,400	88.0	81.8 - 94.2	5,400	--			--			95.2 *	91.8 - 98.6	8,000
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	18.3	14.3 - 22.3	4,000	44.6	35.1 - 54.1	2,700	30.9	17.5 - 44.3	100	5.1 *	0.3 - 10.0	200	8.7 *	3.6 - 13.9	700
Uninsured	7.3	4.6 - 10.0	1,600	18.1	10.5 - 25.6	1,100	--			--			4.1 *	1.1 - 7.1	300
Private	72.9	68.4 - 77.4	15,800	36.3	27.4 - 45.2	2,200	55.4	41.4 - 69.3	200	93.4 *	88.3 - 98.5	4,300	86.2	80.3 - 92.1	7,300
Prenatal insurance															
Medi-Cal	26.4	21.9 - 30.9	5,700	64.3	55.4 - 73.2	3,900	38.4	24.6 - 52.2	200	7.7 *	2.3 - 13.1	400	12.8	6.8 - 18.8	1,100
Uninsured	0.9 *	0.1 - 1.7	200	2.4 *	0.1 - 4.6	100	--			--			--		
Private	71.4	66.8 - 76.0	15,400	32.7	23.9 - 41.5	2,000	58.3	44.3 - 72.4	200	92.0 *	86.6 - 97.5	4,200	85.1	78.8 - 91.3	7,200
Had any gaps in insurance during pregnancy	6.8	4.1 - 9.4	1,500	7.5 *	2.6 - 12.3	400	--			7.4 *	1.0 - 13.9	300	6.2 *	2.2 - 10.2	500
Maternal postpartum insurance															
Medi-Cal	21.4	17.2 - 25.6	4,600	50.6	41.0 - 60.2	3,000	38.2	24.3 - 52.1	200	7.6 *	1.0 - 14.2	300	10.3	4.7 - 15.9	900
Uninsured	5.0	2.7 - 7.4	1,100	13.6	6.4 - 20.8	800	--			--			--		
Private	72.3	67.7 - 76.9	15,600	35.0	26.0 - 44.0	2,100	52.0	37.9 - 66.2	200	91.0 *	84.1 - 97.8	4,200	85.7	79.6 - 91.8	7,300
Infant health insurance															
Medi-Cal	30.5	25.8 - 35.3	6,500	75.7	68.1 - 83.3	4,500	45.2	31.1 - 59.2	200	11.7 *	3.5 - 20.0	500	12.7	6.7 - 18.6	1,100
Uninsured	--			--			--			--			--		
Private	68.0	63.3 - 72.8	14,600	22.1	14.7 - 29.6	1,300	47.9	33.7 - 62.1	200	88.0 *	79.7 - 96.3	4,000	85.8	79.7 - 91.9	7,200
Maternal Demographics															
Age															
15-19	1.9 *	0.5 - 3.3	400	5.8 *	1.2 - 10.4	400	--			--			--		
20-34	69.2	64.7 - 73.7	15,100	72.5	64.2 - 80.9	4,500	68.2	55.0 - 81.4	300	69.3	59.4 - 79.2	3,200	66.0	58.6 - 73.4	5,600
35+	28.9	24.5 - 33.3	6,300	21.7	14.1 - 29.2	1,300	31.8	18.6 - 45.0	100	30.1	20.2 - 40.0	1,400	33.8	26.4 - 41.2	2,900
First live birth	45.4	40.6 - 50.3	9,900	33.8	25.0 - 42.7	2,100	42.0	28.3 - 55.7	200	47.7	37.3 - 58.0	2,200	48.7	40.6 - 56.7	4,100
Less than high school education (or GED)	6.4	4.1 - 8.7	1,400	22.7	15.0 - 30.4	1,300	--			--			--		
Unmarried	22.0	17.9 - 26.1	4,800	52.2	42.7 - 61.7	3,200	24.1	12.0 - 36.2	<100	11.4	5.0 - 17.8	500	8.4	4.2 - 12.6	700
Born outside the U.S.	58.1	53.3 - 62.9	12,700	47.8	38.4 - 57.2	2,900	46.4	32.1 - 60.7	200	27.6	17.6 - 37.6	1,300	84.3	78.6 - 89.9	7,200
Speaks non-English language at home	49.1	44.2 - 54.1	10,600	52.8	43.4 - 62.2	3,200	32.0	18.6 - 45.3	100	20.7	11.3 - 30.0	900	64.2	56.6 - 71.9	5,400
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	19.4	14.9 - 23.9	3,800	50.8	40.5 - 61.0	2,700	26.5	13.4 - 39.6	<100	7.4 *	0.8 - 14.0	300	7.3 *	2.1 - 12.5	600
101-200%	11.5	8.2 - 14.8	2,200	29.3	20.1 - 38.5	1,500	19.7	8.6 - 30.9	<100	--			4.5 *	0.8 - 8.2	300
> 200%	69.1	64.1 - 74.1	13,400	20.0	12.8 - 27.1	1,100	53.7	39.4 - 68.1	200	89.0 *	81.5 - 96.5	3,800	88.1	82.0 - 94.3	6,800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Clara County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		21,800	45.4	40.6 - 50.3	9,900	54.6	49.7 - 59.4	11,900
Health Status before Pregnancy									
In good to excellent health	95.8	94.0 - 97.7	20,800	97.8 *	96.1 - 99.5	9,600	94.2	91.2 - 97.2	11,200
Chronic conditions									
Diabetes	2.4	1.1 - 3.7	500	2.4 *	0.4 - 4.4	200	2.4 *	0.7 - 4.2	300
Hypertension	2.0	0.9 - 3.2	400	1.2 *	0.1 - 2.3	100	2.8 *	0.9 - 4.7	300
Asthma	4.6	2.7 - 6.6	1,000	3.5	1.6 - 5.5	300	5.6	2.4 - 8.7	600
Nutrition and Weight									
Daily folic acid use, month before pregnancy	42.2	37.4 - 47.0	9,200	54.2	47.1 - 61.2	5,400	32.3	26.1 - 38.5	3,800
Overweight before pregnancy†	24.2	20.1 - 28.3	5,200	21.8	16.6 - 27.1	2,200	26.2	20.1 - 32.3	3,100
Obese before pregnancy†	17.6	14.0 - 21.2	3,800	13.1	8.3 - 18.0	1,300	21.5	16.2 - 26.7	2,500
Inadequate weight gain during pregnancy†	21.1	16.9 - 25.4	4,200	18.1	12.2 - 24.0	1,600	23.7	17.7 - 29.7	2,600
Excessive weight gain during pregnancy†	34.6	29.7 - 39.6	6,900	34.9	27.8 - 42.0	3,200	34.4	27.6 - 41.2	3,700
Food insecurity during pregnancy	9.1	6.1 - 12.1	2,000	6.9	2.9 - 11.0	700	10.9	6.5 - 15.3	1,300
Nutrition Program Participation									
Participated in WIC during pregnancy	24.1	19.7 - 28.4	4,800	15.9	10.1 - 21.6	1,400	30.7	24.5 - 37.0	3,400
Received CalFresh (food stamps) during pregnancy	9.7	6.8 - 12.7	2,100	4.8 *	1.5 - 8.0	500	13.9	9.3 - 18.4	1,600
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	3.8 *	1.4 - 6.2	800	4.4 *	0.2 - 8.5	400	3.3 *	0.7 - 5.8	400
Prenatal depressive symptoms†	11.4	8.2 - 14.6	2,500	11.5	6.9 - 16.1	1,100	11.4	6.9 - 15.8	1,400
Postpartum depressive symptoms†	9.6	6.5 - 12.6	2,100	9.3	4.8 - 13.8	900	9.8	5.6 - 14.0	1,200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.2 *	0.6 - 3.8	500	--			--		
Moved due to problems paying rent or mortgage	5.2	2.8 - 7.6	1,100	4.7 *	1.5 - 7.9	500	5.6 *	2.1 - 9.2	600
Woman or partner lost job	8.8	5.8 - 11.7	1,800	8.8	4.2 - 13.3	800	8.8	4.8 - 12.7	1,000
Woman or partner had pay or hours cut back	5.8	3.6 - 8.0	1,200	5.0 *	1.9 - 8.2	500	6.4	3.5 - 9.4	700
Became separated or divorced	4.3	2.0 - 6.7	900	4.1 *	0.7 - 7.4	400	4.5 *	1.3 - 7.8	500
Had no practical or emotional support	3.5	1.5 - 5.4	800	--			5.7 *	2.3 - 9.1	700
Substance Use									
Any smoking, 3 months before pregnancy	3.5	1.9 - 5.1	800	3.9 *	1.6 - 6.3	400	3.1 *	1.0 - 5.3	400
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	1.6 *	0.5 - 2.7	400	--			2.1 *	0.4 - 3.8	200
Any binge drinking, 3 months before pregnancy	12.1	9.0 - 15.2	2,600	11.8	7.7 - 15.9	1,200	12.3	7.7 - 16.9	1,400
Any alcohol use, 3rd trimester	8.6	5.9 - 11.3	1,900	7.7	4.0 - 11.4	800	9.4	5.4 - 13.3	1,100
Any cannabis use during pregnancy	4.0	2.0 - 5.9	900	3.4 *	1.1 - 5.7	300	4.5 *	1.4 - 7.5	500
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	15.7	11.9 - 19.4	3,400	14.3	9.0 - 19.7	1,400	16.8	11.6 - 21.9	2,000
Unsure of pregnancy intentions	12.4	9.2 - 15.6	2,700	10.0	5.7 - 14.2	1,000	14.4	9.7 - 19.0	1,700
Postpartum birth control use	75.9	71.6 - 80.3	16,100	70.3	63.6 - 77.1	6,800	80.5	75.0 - 86.1	9,300
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	86.8	83.4 - 90.3	18,600	87.4	82.4 - 92.3	8,400	86.4	81.5 - 91.3	10,200
Infant always or often shared bed	32.5	27.8 - 37.3	6,900	31.8	25.0 - 38.5	3,000	33.1	26.5 - 39.7	3,900
Intended to breastfeed, before birth	95.4	93.5 - 97.3	20,400	96.5 *	94.2 - 98.7	9,300	94.5	91.5 - 97.5	11,000
Intended to breastfeed exclusively, before birth	70.6	66.1 - 75.1	15,100	73.4	67.2 - 79.5	7,100	68.4	62.0 - 74.8	8,000
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	93.2	90.7 - 95.6	19,600	95.3 *	92.5 - 98.1	8,900	91.4	87.5 - 95.3	10,700
Exclusive breastfeeding, 1 month after delivery	51.3	46.3 - 56.3	10,600	43.7	36.5 - 51.0	4,000	57.5	50.6 - 64.3	6,600
Any breastfeeding, 3 months after delivery	82.8	78.6 - 87.1	13,600	83.8	78.0 - 89.7	6,000	82.1	76.1 - 88.1	7,700
Exclusive breastfeeding, 3 months after delivery	39.4	33.8 - 44.9	6,400	27.2	19.7 - 34.8	1,900	48.7	41.0 - 56.4	4,500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Clara County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Clara County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.6	81.9	16,900	75.7	69.5	81.9	7,500	79.5	73.8	85.2	9,400
Initiated prenatal care in 1st trimester	91.7	88.4	95.0	19,400	90.0	84.2	95.7	8,600	93.1	89.4	96.8	10,800
Received dental care during pregnancy	53.5	48.6	58.4	11,600	55.3	48.3	62.3	5,500	51.9	45.1	58.7	6,200
Received a Tdap vaccine during pregnancy	74.2	69.7	78.7	16,100	76.8	70.2	83.4	7,600	72.1	65.9	78.3	8,600
Received a flu shot during pregnancy	77.7	73.5	81.8	16,700	78.3	72.4	84.1	7,700	77.1	71.4	82.9	9,100
Had a postpartum medical visit	94.1	91.8	96.5	20,400	96.3 *	93.8	98.9	9,500	92.3	88.5	96.0	10,900
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	18.3	14.3	22.3	4,000	12.0	6.8	17.2	1,200	23.5	17.7	29.3	2,800
Uninsured	7.3	4.6	10.0	1,600	7.4	3.3	11.6	700	7.2	3.7	10.7	900
Private	72.9	68.4	77.4	15,800	78.5	72.2	84.8	7,700	68.2	61.9	74.5	8,100
Prenatal insurance												
Medi-Cal	26.4	21.9	30.9	5,700	19.0	12.8	25.2	1,900	32.4	26.1	38.8	3,800
Uninsured	0.9 *	0.1	1.7	200	--				--			
Private	71.4	66.8	76.0	15,400	77.9	71.5	84.3	7,600	66.0	59.6	72.5	7,800
Had any gaps in insurance during pregnancy	6.8	4.1	9.4	1,500	8.7	4.2	13.2	800	5.2 *	2.1	8.3	600
Maternal postpartum insurance												
Medi-Cal	21.4	17.2	25.6	4,600	16.8	10.8	22.8	1,700	25.3	19.4	31.2	3,000
Uninsured	5.0	2.7	7.4	1,100	2.5 *	0.6	4.4	200	7.2	3.3	11.1	800
Private	72.3	67.7	76.9	15,600	79.4	73.2	85.6	7,800	66.4	59.9	72.9	7,800
Infant health insurance												
Medi-Cal	30.5	25.8	35.3	6,500	22.3	15.8	28.8	2,100	37.3	30.6	44.0	4,400
Uninsured	--				--				--			
Private	68.0	63.3	72.8	14,600	75.8	69.2	82.3	7,300	61.7	55.0	68.4	7,300
Maternal Demographics												
Age												
15-19	1.9 *	0.5	3.3	400	4.0 *	1.0	6.9	400	--			
20-34	69.2	64.7	73.7	15,100	79.2	73.9	84.4	7,800	60.9	54.2	67.5	7,200
35+	28.9	24.5	33.3	6,300	16.9	12.2	21.5	1,700	39.0	32.3	45.6	4,600
Less than high school education (or GED)	6.4	4.1	8.7	1,400	3.7 *	0.7	6.8	400	8.6	5.2	12.0	1,000
Unmarried	22.0	17.9	26.1	4,800	21.1	15.3	27.0	2,100	22.7	17.1	28.3	2,700
Race/Ethnicity												
White	23.3	19.0	27.6	4,600	25.5	19.1	31.8	2,200	21.7	15.8	27.5	2,400
Hispanic	31.2	26.4	36.0	6,100	24.2	17.6	30.8	2,100	36.6	29.8	43.4	4,100
Asian/Pacific Islander	43.3	38.2	48.4	8,500	48.3	40.7	55.9	4,100	39.4	32.5	46.3	4,400
Black	2.1	1.7	2.5	400	2.0	1.3	2.8	200	2.2	1.5	2.9	200
Born outside the U.S.	58.1	53.3	62.9	12,700	56.3	49.3	63.3	5,600	59.6	53.0	66.2	7,100
Speaks non-English language at home	49.1	44.2	54.1	10,600	51.0	43.9	58.0	5,000	47.6	40.8	54.5	5,600
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	19.4	14.9	23.9	3,800	13.3	7.1	19.6	1,200	24.2	17.8	30.5	2,600
101-200%	11.5	8.2	14.8	2,200	8.8	4.4	13.1	800	13.7	9.0	18.5	1,500
> 200%	69.1	64.1	74.1	13,400	77.9	70.9	84.9	6,700	62.1	55.1	69.1	6,700

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

‡ This indicator is only available for 2017-2018 (Santa Clara County, n=397).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Clara County was 597. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Santa Cruz County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	4.1	1.8 - 6.4	100	68.8	62.4 - 75.2	1,800	27.1	20.8 - 33.4	700
Health Status before Pregnancy												
In good to excellent health	87.9	83.2 - 92.6	2,300	--			87.4	82.1 - 92.6	1,600	--		
Chronic conditions												
Diabetes	2.8 *	1.0 - 4.7	<100	--			2.7 *	0.5 - 4.9	<100	--		
Hypertension	--			--			--			--		
Asthma	6.4	3.3 - 9.6	200	--			8.3	4.0 - 12.6	100	--		
Nutrition and Weight												
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	--			41.4	33.7 - 49.2	700	43.0	29.3 - 56.7	300
Overweight before pregnancy†	27.6	21.7 - 33.6	700	--			25.8	19.1 - 32.5	400	32.2	19.1 - 45.2	200
Obese before pregnancy†	22.5	16.7 - 28.3	600	--			23.8	16.7 - 30.9	400	20.2	9.0 - 31.4	100
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	--			23.8	16.5 - 31.1	400	21.5	9.8 - 33.1	100
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	46.2 *	12.8 - 79.6	<100	42.7	34.7 - 50.7	700	49.7	35.9 - 63.6	300
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	--			18.6	12.3 - 24.8	300	11.3 *	3.3 - 19.3	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	61.6 *	33.1 - 90.1	<100	41.2	33.7 - 48.6	700	31.5	18.4 - 44.6	200
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	--			29.7	22.4 - 37.0	500	12.0 *	4.3 - 19.6	<100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	--			7.5 *	1.8 - 13.2	100	--		
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	38.4 *	9.9 - 66.9	<100	14.5	9.4 - 19.6	300	5.6 *	0.5 - 10.6	<100
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	--			12.7	7.5 - 17.8	200	11.4 *	3.6 - 19.3	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	--			2.8 *	0.7 - 4.9	<100	--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	--			4.9 *	1.7 - 8.0	<100	13.8 *	2.0 - 25.5	<100
Woman or partner lost job	13.8	9.3 - 18.3	400	26.7 *	4.4 - 49.0	<100	12.9	8.0 - 17.8	200	14.1 *	3.7 - 24.4	<100
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	--			8.5	4.3 - 12.7	100	17.0 *	4.4 - 29.6	100
Became separated or divorced	6.1	3.1 - 9.2	200	--			4.6 *	1.7 - 7.5	<100	--		
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	--			3.6 *	0.8 - 6.4	<100	--		
Substance Use												
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	--			5.7 *	1.9 - 9.5	100	--		
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	--			--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	--			19.1	12.4 - 25.8	300	22.1	10.4 - 33.7	200
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	--			11.7	7.5 - 15.8	200	16.6	7.7 - 25.4	100
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	--			9.1	4.0 - 14.3	200	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	36.3 *	8.8 - 63.9	<100	25.3	18.5 - 32.0	500	14.0 *	5.4 - 22.6	<100
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	37.0 *	8.7 - 65.3	<100	13.2	7.3 - 19.1	200	9.5 *	1.6 - 17.4	<100
Postpartum birth control use	84.5	79.3 - 89.6	2,200	--			87.6	82.6 - 92.5	1,600	78.0 *	64.8 - 91.2	500
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	--			86.4	81.5 - 91.4	1,500	82.0 *	71.0 - 93.0	600
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	57.5 *	28.4 - 86.6	<100	41.9	34.2 - 49.5	700	50.1	36.1 - 64.1	400
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	--			93.8 *	89.3 - 98.2	1,700	89.3 *	80.0 - 98.6	600
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	56.1 *	27.5 - 84.8	<100	74.7	67.5 - 81.8	1,300	70.5	57.3 - 83.6	500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	--			93.4 *	88.9 - 97.9	1,600	--		
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	71.1 *	43.3 - 98.9	<100	64.2	56.0 - 72.4	1,000	53.6	39.5 - 67.7	400
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	68.8 *	41.1 - 96.6	<100	83.4	75.8 - 90.9	1,100	88.5 *	78.9 - 98.1	500
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	58.8 *	30.4 - 87.3	<100	49.0	39.6 - 58.5	600	53.4	38.4 - 68.4	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.0	71.5 - 82.5	2,000	42.3 *	15.3 - 69.4	<100	76.1	69.5 - 82.7	1,400	84.6 *	75.2 - 94.0	600
Initiated prenatal care in 1st trimester	91.2	87.7 - 94.7	2,300	66.5 *	37.7 - 95.2	<100	91.9	87.9 - 96.0	1,600	93.2 *	87.6 - 98.8	600
Received dental care during pregnancy	56.9	50.2 - 63.5	1,500	56.4 *	28.3 - 84.4	<100	57.7	50.0 - 65.4	1,000	54.9	40.7 - 69.0	400
Received a Tdap vaccine during pregnancy	64.4	58.0 - 70.8	1,700	57.8 *	29.6 - 85.9	<100	63.4	55.8 - 71.0	1,100	68.0	55.5 - 80.5	500
Received a flu shot during pregnancy	70.3	64.2 - 76.5	1,800	--			66.7	59.2 - 74.2	1,200	78.5	67.0 - 89.9	600
Had a postpartum medical visit	89.1	84.8 - 93.5	2,300	--			88.3	83.1 - 93.6	1,600	91.0 *	82.3 - 99.7	600
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.8	24.6 - 37.0	800	51.2	22.7 - 79.7	<100	32.7	25.5 - 39.9	600	23.0	10.2 - 35.9	200
Uninsured	15.9	10.9 - 20.8	400	19.3 *	0.5 - 38.0	<100	15.6	9.7 - 21.5	300	16.0 *	5.8 - 26.2	100
Private	51.9	45.3 - 58.6	1,300	--			49.7	41.9 - 57.5	900	61.0	47.0 - 75.0	400
Prenatal insurance												
Medi-Cal	51.2	44.5 - 57.8	1,300	63.2 *	34.2 - 92.1	<100	55.5	47.8 - 63.1	1,000	38.4	24.5 - 52.4	300
Uninsured	--			--			--			--		
Private	47.0	40.4 - 53.7	1,200	--			42.9	35.2 - 50.6	800	60.1	46.1 - 74.1	400
Had any gaps in insurance during pregnancy	5.8	3.3 - 8.3	200	--			5.9	2.9 - 9.0	100	--		
Maternal postpartum insurance												
Medi-Cal	40.4	33.9 - 47.0	1,000	60.7 *	32.0 - 89.5	<100	44.1	36.4 - 51.8	800	28.1	14.9 - 41.3	200
Uninsured	13.7	9.1 - 18.2	400	--			13.5	8.4 - 18.6	200	14.6 *	4.4 - 24.9	100
Private	45.9	39.3 - 52.5	1,200	--			42.4	34.7 - 50.0	800	57.3	43.2 - 71.3	400
Infant health insurance												
Medi-Cal	56.6	50.0 - 63.2	1,500	--			60.5	52.9 - 68.1	1,100	43.9	29.8 - 57.9	300
Uninsured	--			--			--			--		
Private	43.0	36.4 - 49.6	1,100	--			38.8	31.2 - 46.4	700	56.1	42.1 - 70.2	400
Maternal Demographics												
First live birth	40.4	34.0 - 46.9	1,100	--			41.8	34.2 - 49.3	700	29.7	16.8 - 42.6	200
Less than high school education (or GED)	17.7	12.7 - 22.7	500	39.7 *	11.0 - 68.5	<100	14.3	9.3 - 19.3	300	23.0	10.9 - 35.0	200
Unmarried	39.5	32.9 - 46.1	1,000	--			44.2	36.3 - 52.1	800	20.4	10.0 - 30.9	100
Race/Ethnicity												
White	41.7	35.1 - 48.2	1,100	--			35.5	28.4 - 42.7	600	60.3	46.5 - 74.1	400
Hispanic	55.3	48.7 - 62.0	1,400	--			61.2	53.8 - 68.5	1,100	36.9	23.3 - 50.5	300
Asian/Pacific Islander	2.8 *	0.7 - 4.8	<100	--			2.9 *	0.4 - 5.5	<100	--		
Black	--			--			--			--		
Born outside the U.S.	33.0	27.0 - 39.0	900	32.2 *	7.2 - 57.1	<100	31.3	24.7 - 37.8	600	37.6	24.0 - 51.1	300
Speaks non-English language at home	33.9	27.7 - 40.0	900	40.3 *	13.6 - 66.9	<100	34.9	27.7 - 42.2	600	30.2	17.4 - 43.0	200
Lives in a high poverty neighborhood†	3.8 *	1.3 - 6.3	<100	--			3.9 *	0.8 - 7.0	<100	--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	17.7	12.7 - 22.7	500	16.7	12.2 - 21.2	400	29.8	23.3 - 36.2	800	35.8	29.4 - 42.3	900
Health Status before Pregnancy															
In good to excellent health	87.9	83.2 - 92.6	2,300	79.1	67.0 - 91.2	400	80.6 *	68.9 - 92.3	300	83.4 *	71.6 - 95.3	600	--		
Chronic conditions															
Diabetes	2.8 *	1.0 - 4.7	<100	--			--			--			--		
Hypertension	--			--			--			--			--		
Asthma	6.4	3.3 - 9.6	200	--			--			11.7 *	3.5 - 19.8	<100	5.7 *	1.5 - 10.0	<100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	17.8 *	5.7 - 29.8	<100	37.9	23.1 - 52.8	200	38.9	26.1 - 51.6	300	54.4	43.2 - 65.6	500
Overweight before pregnancy†	27.6	21.7 - 33.6	700	41.6	25.8 - 57.4	200	30.4	15.3 - 45.5	100	17.9	8.2 - 27.7	100	28.2	18.6 - 37.7	300
Obese before pregnancy†	22.5	16.7 - 28.3	600	33.2	18.5 - 47.9	100	29.8	16.5 - 43.1	100	33.0	19.6 - 46.5	200	--		
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	36.0	20.8 - 51.1	100	36.6	20.4 - 52.9	100	18.6 *	6.7 - 30.6	100	14.3	6.4 - 22.2	100
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	36.3	21.0 - 51.6	100	38.1	23.8 - 52.3	100	51.3	36.7 - 65.9	300	45.4	34.3 - 56.5	400
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	31.9	18.4 - 45.3	100	24.0	11.3 - 36.8	<100	21.8	10.2 - 33.4	200	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	--			66.9	51.5 - 82.3	300	31.1	19.2 - 43.0	200	4.4 *	0.5 - 8.3	<100
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	42.7	27.9 - 57.5	200	42.4	27.7 - 57.1	200	29.0	16.5 - 41.4	200	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	--			--			--			--		
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	12.8 *	4.7 - 20.8	<100	20.0	9.9 - 30.2	<100	17.0	7.8 - 26.3	100	6.8 *	1.0 - 12.5	<100
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	12.9 *	4.6 - 21.2	<100	20.9 *	6.9 - 34.9	<100	10.8 *	3.7 - 17.9	<100	10.8 *	3.8 - 17.9	<100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	--			--			6.9 *	0.9 - 12.9	<100	--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	--			--			13.5 *	2.6 - 24.3	100	--		
Woman or partner lost job	13.8	9.3 - 18.3	400	16.2 *	4.7 - 27.6	<100	17.3	7.4 - 27.2	<100	16.7	7.3 - 26.2	100	6.8 *	0.7 - 12.9	<100
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	--			--			20.8	8.7 - 32.8	200	4.5 *	1.1 - 7.9	<100
Became separated or divorced	6.1	3.1 - 9.2	200	--			11.5 *	3.2 - 19.7	<100	9.9 *	2.4 - 17.3	<100	--		
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	--			--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	--			--			8.1 *	0.8 - 15.4	<100	--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	--			--			--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	--			18.0 *	3.5 - 32.5	<100	21.0	9.5 - 32.5	200	27.6	17.4 - 37.8	300
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	--			--			10.4 *	4.1 - 16.8	<100	22.7	14.2 - 31.1	200
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	--			--			19.1	8.0 - 30.2	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	27.5	14.3 - 40.6	100	23.5	12.5 - 34.4	100	22.0	12.0 - 31.9	200	19.8	9.8 - 29.7	200
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	--			20.3 *	8.3 - 32.3	<100	21.8	9.8 - 33.8	200	7.2 *	1.5 - 12.8	<100
Postpartum birth control use	84.5	79.3 - 89.6	2,200	85.1 *	71.2 - 99.1	400	82.2 *	71.1 - 93.4	300	82.9	73.1 - 92.7	600	85.9 *	77.5 - 94.3	800
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	70.8	55.7 - 85.8	300	78.3	66.4 - 90.2	300	83.9	75.1 - 92.7	600	96.3 *	92.8 - 99.9	900
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	51.0	35.5 - 66.6	200	54.2	40.0 - 68.5	200	45.4	32.0 - 58.9	300	36.3	25.6 - 47.0	300
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	89.4 *	79.7 - 99.1	400	--			--			--		
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	55.9	40.6 - 71.3	300	62.4	47.5 - 77.3	300	73.3	61.5 - 85.0	600	85.3 *	75.4 - 95.2	800
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	--			80.3 *	65.3 - 95.3	300	90.6 *	83.0 - 98.2	700	--		
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	52.5	35.2 - 69.9	200	50.0	34.8 - 65.1	200	53.7	39.7 - 67.7	400	74.9	64.1 - 85.6	700
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	86.1 *	76.9 - 95.3	300	69.4	52.3 - 86.4	200	72.3	57.4 - 87.2	400	--		
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	38.4	19.4 - 57.5	100	33.2	17.9 - 48.4	100	36.9	22.3 - 51.5	200	72.3	60.7 - 83.8	500

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MIHA Data Snapshot, Santa Cruz County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.0	71.5 - 82.5	2,000	81.8	71.4 - 92.2	400	70.5	57.6 - 83.5	300	70.8	58.6 - 83.0	500	83.3	75.3 - 91.3	800
Initiated prenatal care in 1st trimester	91.2	87.7 - 94.7	2,300	87.7 *	78.7 - 96.6	400	91.4 *	84.5 - 98.4	400	86.9 *	78.2 - 95.7	700	96.6 *	93.3 - 99.9	900
Received dental care during pregnancy	56.9	50.2 - 63.5	1,500	55.8	40.4 - 71.2	300	40.0	26.2 - 53.7	200	45.6	32.5 - 58.7	300	73.3	63.7 - 82.9	700
Received a Tdap vaccine during pregnancy	64.4	58.0 - 70.8	1,700	59.2	44.3 - 74.1	300	52.8	38.5 - 67.1	200	55.8	42.5 - 69.1	400	78.3	68.9 - 87.8	700
Received a flu shot during pregnancy	70.3	64.2 - 76.5	1,800	81.8 *	69.0 - 94.6	400	77.6	65.9 - 89.3	300	58.7	45.6 - 71.7	400	70.5	60.0 - 81.0	600
Had a postpartum medical visit	89.1	84.8 - 93.5	2,300	86.0 *	72.6 - 99.4	400	80.7	69.8 - 91.6	300	89.1 *	80.0 - 98.1	700	94.6 *	90.2 - 99.0	900
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	30.8	24.6 - 37.0	800	58.5	43.3 - 73.7	300	57.8	43.6 - 72.0	200	31.9	19.1 - 44.7	200	--		
Uninsured	15.9	10.9 - 20.8	400	36.4	21.5 - 51.3	200	23.8	12.1 - 35.6	100	12.2 *	2.5 - 21.8	<100	--		
Private	51.9	45.3 - 58.6	1,300	--			16.8 *	5.9 - 27.8	<100	52.5	39.1 - 65.9	400	90.7 *	84.0 - 97.4	800
Prenatal insurance															
Medi-Cal	51.2	44.5 - 57.8	1,300	--			83.2 *	72.1 - 94.3	400	51.9	38.6 - 65.1	400	12.3 *	4.3 - 20.4	100
Uninsured	--			--			--			--			--		
Private	47.0	40.4 - 53.7	1,200	--			--			47.8	34.5 - 61.0	400	86.0 *	77.8 - 94.3	800
Had any gaps in insurance during pregnancy	5.8	3.3 - 8.3	200	7.9 *	1.0 - 14.8	<100	9.0 *	2.3 - 15.7	<100	--			3.9 *	0.8 - 7.1	<100
Maternal postpartum insurance															
Medi-Cal	40.4	33.9 - 47.0	1,000	58.6	43.2 - 74.0	300	63.7	49.9 - 77.5	300	52.6	39.3 - 65.8	400	9.9 *	3.0 - 16.8	<100
Uninsured	13.7	9.1 - 18.2	400	38.0	22.7 - 53.2	200	28.7	15.7 - 41.8	100	--			--		
Private	45.9	39.3 - 52.5	1,200	--			--			46.0	32.8 - 59.2	400	84.7	76.0 - 93.4	800
Infant health insurance															
Medi-Cal	56.6	50.0 - 63.2	1,500	--			--			59.8	46.8 - 72.7	500	17.0	8.1 - 26.0	200
Uninsured	--			--			--			--			--		
Private	43.0	36.4 - 49.6	1,100	--			--			40.2	27.3 - 53.2	300	83.0	74.0 - 91.9	800
Maternal Demographics															
First live birth	40.4	34.0 - 46.9	1,100	19.7 *	6.7 - 32.7	<100	35.9	22.3 - 49.5	200	43.9	30.9 - 56.8	300	49.8	38.7 - 60.9	500
Unmarried	39.5	32.9 - 46.1	1,000	56.5	40.7 - 72.3	200	52.8	38.4 - 67.1	200	48.8	35.3 - 62.2	400	15.9 *	6.3 - 25.6	100
Race/Ethnicity															
White	41.7	35.1 - 48.2	1,100	--			10.6 *	3.0 - 18.1	<100	37.5	24.6 - 50.3	300	81.4	71.4 - 91.3	700
Hispanic	55.3	48.7 - 62.0	1,400	--			86.8 *	78.0 - 95.6	400	58.7	45.7 - 71.7	400	14.4 *	5.0 - 23.9	100
Asian/Pacific Islander	2.8 *	0.7 - 4.8	<100	--			--			--			--		
Black	--			--			--			--			--		
Born outside the U.S.	33.0	27.0 - 39.0	900	84.5 *	72.7 - 96.2	400	63.2	48.7 - 77.8	300	7.5 *	2.5 - 12.6	<100	14.6	6.8 - 22.5	100
Speaks non-English language at home	33.9	27.7 - 40.0	900	80.1 *	67.9 - 92.4	400	64.1	49.5 - 78.6	300	16.0 *	6.2 - 25.7	100	9.9 *	2.5 - 17.2	<100
Lives in a high poverty neighborhood†	3.8 *	1.3 - 6.3	<100	--			--			--			7.0 *	1.5 - 12.4	<100
Income as a percent of the Federal Poverty Guideline															
0-100%	31.4	25.0 - 37.7	800	68.4	52.1 - 84.7	300	56.3	41.4 - 71.3	200	32.8	20.4 - 45.2	200	--		
101-200%	21.3	15.6 - 27.1	500	26.4	11.4 - 41.4	<100	28.9	15.9 - 41.8	100	26.2	13.7 - 38.8	200	11.4 *	4.2 - 18.6	100
> 200%	47.3	40.4 - 54.2	1,200	--			14.8 *	3.6 - 26.0	<100	41.0	27.8 - 54.1	300	86.1	78.1 - 94.1	800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			2,600	83.2	78.2	88.1	2,000	16.8	11.9	21.8	400
Health Status before Pregnancy												
In good to excellent health	87.9	83.2	92.6	2,300	86.3	80.6	92.1	1,700	90.6 *	83.1	98.1	400
Chronic conditions												
Diabetes	2.8 *	1.0	4.7	<100	3.7 *	1.2	6.1	<100	--			
Hypertension	--				--				--			
Asthma	6.4	3.3	9.6	200	7.1	3.4	10.7	100	--			
Nutrition and Weight												
Daily folic acid use, month before pregnancy	40.4	33.8	46.9	1,000	41.3	33.9	48.6	800	37.1	21.3	53.0	200
Overweight before pregnancy†	27.6	21.7	33.6	700	27.8	21.2	34.5	500	27.6	13.2	41.9	100
Obese before pregnancy†	22.5	16.7	28.3	600	22.9	16.2	29.7	400	24.1	10.4	37.7	<100
Inadequate weight gain during pregnancy†	22.9	16.9	28.9	500	23.2	16.4	29.9	400	22.9 *	7.6	38.2	<100
Excessive weight gain during pregnancy†	44.7	37.9	51.5	1,000	45.2	37.5	52.9	800	41.7	25.2	58.2	200
Food insecurity during pregnancy	16.8	11.8	21.8	400	15.8	10.1	21.5	300	25.2	11.8	38.6	100
Nutrition Program Participation												
Participated in WIC during pregnancy	39.5	33.1	45.9	1,000	39.2	32.1	46.3	800	43.0	27.1	58.8	200
Received CalFresh (food stamps) during pregnancy	23.8	18.2	29.5	600	25.5	18.8	32.1	500	23.4	10.7	36.2	<100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3	11.3	200	6.2 *	1.1	11.3	100	--			
Prenatal depressive symptoms†	13.1	9.0	17.1	300	14.1	9.3	19.0	300	10.9 *	2.6	19.3	<100
Postpartum depressive symptoms†	13.0	8.7	17.3	300	15.0	9.7	20.3	300	--			
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.6 *	0.7	4.5	<100	2.5 *	0.3	4.8	<100	--			
Moved due to problems paying rent or mortgage	7.1	3.1	11.1	200	6.3 *	1.7	10.9	100	9.9 *	0.5	19.3	<100
Woman or partner lost job	13.8	9.3	18.3	400	14.2	9.1	19.2	300	17.7 *	4.4	31.1	<100
Woman or partner had pay or hours cut back	10.7	6.1	15.3	300	10.1	5.0	15.2	200	10.2 *	1.0	19.5	<100
Became separated or divorced	6.1	3.1	9.2	200	6.5	2.9	10.1	100	--			
Had no practical or emotional support	3.6 *	1.3	6.0	<100	4.0 *	1.1	6.8	<100	--			
Substance Use												
Any smoking, 3 months before pregnancy	4.4 *	1.7	7.1	100	4.0 *	1.0	7.1	<100	--			
Any smoking, 3rd trimester	--				--				--			
Any smoking, postpartum	--				--				--			
Any binge drinking, 3 months before pregnancy	19.2	13.5	24.8	500	20.1	13.6	26.6	400	12.5 *	1.7	23.3	<100
Any alcohol use, 3rd trimester	12.5	8.8	16.3	300	13.0	8.7	17.4	300	12.7 *	3.5	22.0	<100
Any cannabis use during pregnancy	7.0	3.3	10.7	200	8.2	3.7	12.7	200	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	22.7	17.3	28.2	600	22.1	15.9	28.3	400	28.6	14.4	42.8	100
Unsure of pregnancy intentions	13.2	8.4	18.0	300	14.5	8.7	20.2	300	11.0 *	0.7	21.2	<100
Postpartum birth control use	84.5	79.3	89.6	2,200	82.9	77.0	88.9	1,600	--			
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	85.2	80.6	89.8	2,200	87.1	82.5	91.8	1,700	77.6	65.0	90.3	300
Infant always or often shared bed	44.8	38.1	51.4	1,200	44.9	37.4	52.4	900	49.6	33.5	65.8	200
Intended to breastfeed, before birth	92.2	88.0	96.3	2,400	91.5 *	86.4	96.6	1,800	--			
Intended to breastfeed exclusively, before birth	72.8	66.5	79.0	1,900	71.8	64.7	78.9	1,400	76.7	64.3	89.1	300
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	92.3	88.2	96.4	2,300	92.0 *	87.2	96.9	1,800	--			
Exclusive breastfeeding, 1 month after delivery	61.4	54.4	68.4	1,500	59.1	51.2	67.1	1,100	63.8	47.7	79.9	200
Any breastfeeding, 3 months after delivery	84.0	78.1	90.0	1,600	83.0	76.0	90.1	1,200	85.3 *	72.5	98.1	300
Exclusive breastfeeding, 3 months after delivery	50.9	43.1	58.6	1,000	46.7	38.0	55.3	700	55.0	36.6	73.4	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.0	71.5	82.5	2,000	75.3	68.8	81.7	1,500	84.8 *	74.0	95.5	300
Initiated prenatal care in 1st trimester	91.2	87.7	94.7	2,300	90.9	87.0	94.9	1,800	--			
Received dental care during pregnancy	56.9	50.2	63.5	1,500	55.4	47.9	62.9	1,100	64.5	49.7	79.3	300
Received a Tdap vaccine during pregnancy	64.4	58.0	70.8	1,700	61.0	53.6	68.4	1,200	66.7	52.2	81.1	300
Received a flu shot during pregnancy	70.3	64.2	76.5	1,800	71.9	65.1	78.7	1,400	62.8	47.6	78.0	300
Had a postpartum medical visit	89.1	84.8	93.5	2,300	89.7	85.2	94.3	1,800	--			
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.8	24.6	37.0	800	30.5	23.6	37.5	600	37.2	22.0	52.4	200
Uninsured	15.9	10.9	20.8	400	16.6	11.2	22.1	300	--			
Private	51.9	45.3	58.6	1,300	51.0	43.5	58.5	1,000	54.3	38.1	70.4	200
Prenatal insurance												
Medi-Cal	51.2	44.5	57.8	1,300	51.3	43.9	58.8	1,000	51.0	34.9	67.1	200
Uninsured	--				--				--			
Private	47.0	40.4	53.7	1,200	47.1	39.6	54.5	1,000	46.3	30.3	62.4	200
Had any gaps in insurance during pregnancy	5.8	3.3	8.3	200	5.2	2.6	7.7	100	--			
Maternal postpartum insurance												
Medi-Cal	40.4	33.9	47.0	1,000	41.5	34.0	48.9	800	40.9	25.3	56.4	200
Uninsured	13.7	9.1	18.2	400	12.5	7.8	17.1	300	12.8 *	0.4	25.2	<100
Private	45.9	39.3	52.5	1,200	46.1	38.6	53.5	900	46.3	30.3	62.4	200
Infant health insurance												
Medi-Cal	56.6	50.0	63.2	1,500	55.7	48.2	63.1	1,100	60.8	44.8	76.7	200
Uninsured	--				--				--			
Private	43.0	36.4	49.6	1,100	43.8	36.3	51.2	900	39.2	23.3	55.2	200
Maternal Demographics												
Age												
15-19	4.1	1.8	6.4	100	3.8 *	1.4	6.2	<100	--			
20-34	68.8	62.4	75.2	1,800	69.8	62.6	76.9	1,400	65.2	49.2	81.1	300
35+	27.1	20.8	33.4	700	26.5	19.5	33.4	500	27.5	12.2	42.8	100
First live birth	40.4	34.0	46.9	1,100	41.5	34.2	48.8	800	34.0	19.2	48.8	100
Less than high school education (or GED)	17.7	12.7	22.7	500	15.6	10.6	20.7	300	26.2	11.7	40.6	100
Unmarried	39.5	32.9	46.1	1,000	41.8	34.3	49.4	800	29.2	14.5	43.9	100
Race/Ethnicity												
White	41.7	35.1	48.2	1,100	40.7	33.4	48.0	800	44.2	28.0	60.4	200
Hispanic	55.3	48.7	62.0	1,400	56.7	49.3	64.1	1,100	52.5	36.2	68.8	200
Asian/Pacific Islander	2.8 *	0.7	4.8	<100	2.3 *	0.3	4.3	<100	--			
Black	--				--				--			
Born outside the U.S.	33.0	27.0	39.0	900	33.3	26.7	40.0	700	29.8	15.2	44.3	100
Speaks non-English language at home	33.9	27.7	40.0	900	33.3	26.5	40.1	700	29.3	14.8	43.7	100
Lives in a high poverty neighborhood†	3.8 *	1.3	6.3	<100	4.6 *	1.5	7.6	<100	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	31.4	25.0	37.7	800	31.8	24.7	38.9	600	31.9	16.5	47.2	100
101-200%	21.3	15.6	27.1	500	21.5	14.9	28.2	400	23.3 *	9.3	37.4	<100
> 200%	47.3	40.4	54.2	1,200	46.7	38.9	54.4	900	44.8	28.2	61.3	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	31.4	25.0 - 37.7	800	21.3	15.6 - 27.1	500	47.3	40.4 - 54.2	1,200
Health Status before Pregnancy												
In good to excellent health	87.9	83.2 - 92.6	2,300	82.8	74.8 - 90.9	600	77.2 *	61.3 - 93.1	400	94.6 *	89.7 - 99.4	1,100
Chronic conditions												
Diabetes	2.8 *	1.0 - 4.7	<100	--			--			--		
Hypertension	--			--			--			--		
Asthma	6.4	3.3 - 9.6	200	7.9 *	1.6 - 14.3	<100	--			6.8 *	2.1 - 11.6	<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	34.9	22.7 - 47.1	300	29.7	16.3 - 43.1	200	47.9	37.8 - 58.0	500
Overweight before pregnancy†	27.6	21.7 - 33.6	700	38.6	26.0 - 51.3	300	22.5	10.9 - 34.0	100	20.6	13.3 - 27.9	200
Obese before pregnancy†	22.5	16.7 - 28.3	600	32.8	21.0 - 44.6	200	26.3	12.7 - 40.0	100	15.9	7.7 - 24.0	200
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	30.0	18.1 - 41.8	200	27.8	12.3 - 43.2	100	15.9	8.1 - 23.6	200
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	43.6	30.9 - 56.4	300	40.2	25.7 - 54.7	200	48.4	38.1 - 58.7	500
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	32.1	20.9 - 43.3	200	21.1 *	7.9 - 34.4	100	4.9 *	0.4 - 9.4	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	74.0	61.7 - 86.3	600	55.6	40.2 - 71.1	300	4.7 *	0.2 - 9.2	<100
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	54.5	42.4 - 66.5	400	26.7	13.8 - 39.7	100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	9.9 *	1.2 - 18.6	<100	--			--		
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	12.7	6.3 - 19.1	<100	18.7 *	7.4 - 30.0	<100	11.0	5.0 - 17.0	100
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	13.5 *	4.7 - 22.2	100	18.8	7.9 - 29.8	<100	9.9 *	4.0 - 15.8	100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	--			--			--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	6.9 *	1.8 - 12.1	<100	--			5.7 *	0.9 - 10.5	<100
Woman or partner lost job	13.8	9.3 - 18.3	400	25.1	14.9 - 35.3	200	15.8 *	4.6 - 26.9	<100	5.5 *	0.5 - 10.4	<100
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	20.0	9.4 - 30.7	200	17.0 *	2.8 - 31.1	<100	2.6 *	0.2 - 5.0	<100
Became separated or divorced	6.1	3.1 - 9.2	200	8.2 *	2.3 - 14.1	<100	--			--		
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	--			8.8 *	0.5 - 17.0	<100	--		
Substance Use												
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	--			--			3.7 *	0.2 - 7.2	<100
Any smoking, 3rd trimester	--			--			--			--		
Any smoking, postpartum	--			--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	10.8 *	2.0 - 19.6	<100	15.6 *	3.1 - 28.1	<100	28.2	18.8 - 37.5	300
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	5.4 *	1.3 - 9.6	<100	--			22.1	14.6 - 29.5	300
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	9.9 *	2.1 - 17.6	<100	--			5.6 *	1.1 - 10.2	<100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	23.4	14.2 - 32.6	200	28.6	15.6 - 41.5	100	20.1	11.3 - 29.0	200
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	19.4	9.2 - 29.5	100	16.4 *	4.1 - 28.8	<100	7.0 *	1.7 - 12.4	<100
Postpartum birth control use	84.5	79.3 - 89.6	2,200	86.6 *	77.4 - 95.7	700	86.6 *	76.4 - 96.9	400	83.9	76.0 - 91.7	1,000
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	82.8	73.9 - 91.7	600	82.2	72.1 - 92.2	400	88.2	81.7 - 94.7	1,000
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	51.1	39.0 - 63.2	400	62.7	48.3 - 77.1	300	33.5	24.2 - 42.9	400
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	91.1 *	82.8 - 99.4	700	--			93.2 *	87.2 - 99.2	1,100
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	59.9	47.5 - 72.2	400	77.1	65.0 - 89.2	400	83.2	74.7 - 91.8	1,000
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	89.5 *	80.8 - 98.3	700	--			91.5 *	84.8 - 98.2	1,000
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	58.9	46.1 - 71.6	400	52.0	35.5 - 68.6	200	67.5	57.3 - 77.7	700
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	81.3 *	70.0 - 92.7	500	83.4 *	68.5 - 98.2	300	86.9 *	78.1 - 95.6	700
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	45.1	30.8 - 59.5	200	37.9	20.7 - 55.2	100	60.0	48.2 - 71.8	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	77.0	71.5	82.5	2,000	73.7	63.7	83.8	600	74.1	60.6	87.6	400	81.2	73.6	88.9	900
Initiated prenatal care in 1st trimester	91.2	87.7	94.7	2,300	89.3 *	82.0	96.6	700	88.5 *	80.1	96.8	500	--			
Received dental care during pregnancy	56.9	50.2	63.5	1,500	47.8	35.9	59.8	400	40.2	25.7	54.7	200	71.5	62.5	80.5	800
Received a Tdap vaccine during pregnancy	64.4	58.0	70.8	1,700	53.9	42.1	65.7	400	62.5	47.4	77.6	300	75.2	66.1	84.2	900
Received a flu shot during pregnancy	70.3	64.2	76.5	1,800	68.8	57.2	80.3	500	83.2 *	72.7	93.8	400	65.2	55.4	75.0	800
Had a postpartum medical visit	89.1	84.8	93.5	2,300	83.8 *	73.6	94.0	600	86.9 *	77.7	96.2	500	93.3 *	88.0	98.6	1,100
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	30.8	24.6	37.0	800	67.2	56.3	78.1	500	39.4	24.4	54.4	200	--			
Uninsured	15.9	10.9	20.8	400	23.4	13.7	33.1	200	26.0	11.9	40.1	100	--			
Private	51.9	45.3	58.6	1,300	8.2 *	2.1	14.3	<100	32.7	18.9	46.6	200	92.5 *	86.4	98.6	1,100
Prenatal insurance																
Medi-Cal	51.2	44.5	57.8	1,300	93.7 *	87.9	99.5	700	79.8	68.7	91.0	400	6.9 *	0.9	12.8	<100
Uninsured	--				--				--				--			
Private	47.0	40.4	53.7	1,200	--				18.4 *	7.5	29.3	<100	90.9 *	84.5	97.3	1,000
Had any gaps in insurance during pregnancy	5.8	3.3	8.3	200	7.6 *	2.7	12.4	<100	--				4.2 *	0.5	7.9	<100
Maternal postpartum insurance																
Medi-Cal	40.4	33.9	47.0	1,000	78.2	68.7	87.6	600	54.1	39.0	69.3	300	7.4 *	2.0	12.9	<100
Uninsured	13.7	9.1	18.2	400	18.2	9.7	26.7	100	21.8	9.5	34.1	100	5.7 *	0.3	11.1	<100
Private	45.9	39.3	52.5	1,200	--				24.0	12.2	35.9	100	86.9	79.5	94.2	1,000
Infant health insurance																
Medi-Cal	56.6	50.0	63.2	1,500	--				89.2 *	80.2	98.2	500	13.1	5.8	20.4	100
Uninsured	--				--				--				--			
Private	43.0	36.4	49.6	1,100	--				10.8 *	1.8	19.8	<100	86.9	79.6	94.2	1,000
Maternal Demographics																
First live birth	40.4	34.0	46.9	1,100	23.7	14.4	33.0	200	42.7	27.6	57.9	200	48.2	38.1	58.2	600
Less than high school education (or GED)	17.7	12.7	22.7	500	34.1	22.7	45.5	300	19.2 *	7.7	30.8	<100	--			
Unmarried	39.5	32.9	46.1	1,000	68.1	56.9	79.4	500	32.5	18.3	46.8	200	21.6	12.2	31.0	200
Race/Ethnicity																
White	41.7	35.1	48.2	1,100	12.7	5.5	19.8	<100	26.0	10.9	41.0	100	69.7	59.7	79.7	800
Hispanic	55.3	48.7	62.0	1,400	85.2	77.5	92.8	600	71.7	56.5	86.9	400	26.9	17.1	36.8	300
Asian/Pacific Islander	2.8 *	0.7	4.8	<100	--				--				--			
Black	--				--				--				--			
Born outside the U.S.	33.0	27.0	39.0	900	45.7	33.9	57.5	300	52.5	37.0	68.0	300	10.2	4.5	15.8	100
Speaks non-English language at home	33.9	27.7	40.0	900	46.2	34.2	58.1	300	63.7	48.5	78.9	300	8.1 *	2.3	13.9	<100
Lives in a high poverty neighborhood†	3.8 *	1.3	6.3	<100	--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			2,600	32.0	25.5	38.5	800	40.6	34.1	47.2	1,000	23.6	17.9	29.2	600	3.8 *	1.3	6.3	<100
Health Status before Pregnancy																				
In good to excellent health	87.9	83.2	92.6	2,300	88.8 *	79.0	98.5	700	87.6 *	80.0	95.1	900	81.8	71.5	92.2	500	--			
Chronic conditions																				
Diabetes	2.8 *	1.0	4.7	<100	--				--				--				--			
Hypertension	--				--				--				--				--			
Asthma	6.4	3.3	9.6	200	--				7.9 *	2.7	13.1	<100	--				--			
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	40.4	33.8	46.9	1,000	36.0	24.5	47.4	300	44.4	34.1	54.7	400	37.8	23.8	51.7	200	56.3 *	23.2	89.3	<100
Overweight before pregnancy†	27.6	21.7	33.6	700	28.0	17.2	38.7	200	21.9	13.5	30.3	200	35.2	21.5	48.9	200	--			
Obese before pregnancy†	22.5	16.7	28.3	600	20.0	9.9	30.2	100	24.8	14.8	34.7	200	28.5	15.7	41.4	200	--			
Inadequate weight gain during pregnancy†	22.9	16.9	28.9	500	16.7	7.7	25.7	100	24.5	15.0	34.1	200	30.1	15.6	44.6	200	--			
Excessive weight gain during pregnancy†	44.7	37.9	51.5	1,000	53.8	41.2	66.4	300	44.2	33.5	54.8	400	30.9	17.8	44.0	200	62.1 *	28.9	95.4	<100
Food insecurity during pregnancy	16.8	11.8	21.8	400	10.1 *	3.9	16.2	<100	22.8	13.2	32.5	200	19.0	8.7	29.4	100	--			
Nutrition Program Participation																				
Participated in WIC during pregnancy	39.5	33.1	45.9	1,000	20.1	11.5	28.6	200	43.4	33.3	53.5	400	60.7	46.9	74.5	300	--			
Received CalFresh (food stamps) during pregnancy	23.8	18.2	29.5	600	17.3	8.1	26.4	100	23.9	14.8	33.1	200	38.5	25.1	52.0	200	--			
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3	11.3	200	--				--				10.6 *	0.6	20.7	<100	--			
Prenatal depressive symptoms†	13.1	9.0	17.1	300	11.0 *	4.3	17.8	<100	11.5	5.7	17.2	100	21.0	9.7	32.3	100	--			
Postpartum depressive symptoms†	13.0	8.7	17.3	300	10.9 *	3.4	18.3	<100	11.4	5.8	16.9	100	24.3	11.4	37.2	100	--			
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	2.6 *	0.7	4.5	<100	--				3.5 *	0.2	6.8	<100	--				--			
Moved due to problems paying rent or mortgage	7.1	3.1	11.1	200	--				7.0 *	1.0	13.1	<100	6.5 *	0.5	12.6	<100	--			
Woman or partner lost job	13.8	9.3	18.3	400	13.0 *	4.9	21.1	100	15.9	8.2	23.6	200	17.6 *	7.1	28.1	100	--			
Woman or partner had pay or hours cut back	10.7	6.1	15.3	300	17.4 *	6.3	28.4	100	6.0 *	1.5	10.5	<100	8.8 *	1.7	15.9	<100	--			
Became separated or divorced	6.1	3.1	9.2	200	--				5.1 *	0.4	9.9	<100	13.2 *	4.3	22.2	<100	--			
Had no practical or emotional support	3.6 *	1.3	6.0	<100	--				4.1 *	0.3	7.9	<100	--				--			
Substance Use																				
Any smoking, 3 months before pregnancy	4.4 *	1.7	7.1	100	--				4.0 *	0.4	7.6	<100	--				--			
Any smoking, 3rd trimester	--				--				--				--				--			
Any smoking, postpartum	--				--				--				--				--			
Any binge drinking, 3 months before pregnancy	19.2	13.5	24.8	500	17.1	8.0	26.3	100	23.6	13.6	33.6	200	12.3 *	1.6	23.0	<100	--			
Any alcohol use, 3rd trimester	12.5	8.8	16.3	300	14.8	7.4	22.1	100	15.4	8.7	22.2	200	6.9 *	0.7	13.1	<100	--			
Any cannabis use during pregnancy	7.0	3.3	10.7	200	--				12.4 *	4.6	20.2	100	--				--			
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	22.7	17.3	28.2	600	20.6	10.1	31.1	200	21.5	13.4	29.6	200	33.8	20.7	46.9	200	--			
Unsure of pregnancy intentions	13.2	8.4	18.0	300	15.0 *	5.3	24.7	100	16.4	7.8	25.0	200	7.2 *	0.5	14.0	<100	--			
Postpartum birth control use	84.5	79.3	89.6	2,200	88.5 *	80.2	96.8	700	82.3	74.0	90.6	800	85.9 *	75.9	96.0	500	--			
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	85.2	80.6	89.8	2,200	88.2	81.5	94.8	700	85.4	78.0	92.9	800	79.6	69.2	90.0	400	--			
Infant always or often shared bed	44.8	38.1	51.4	1,200	42.6	30.0	55.3	300	51.4	41.2	61.7	500	43.2	29.4	57.0	200	--			
Intended to breastfeed, before birth	92.2	88.0	96.3	2,400	93.8 *	88.2	99.4	700	92.3 *	85.6	99.0	900	86.1 *	73.9	98.3	500	--			
Intended to breastfeed exclusively, before birth	72.8	66.5	79.0	1,900	76.3	65.1	87.6	600	74.5	65.2	83.8	700	64.8	51.1	78.6	400	--			
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	92.3	88.2	96.4	2,300	--				91.5 *	84.8	98.3	900	86.6 *	74.7	98.5	500	--			
Exclusive breastfeeding, 1 month after delivery	61.4	54.4	68.4	1,500	60.4	47.3	73.5	500	57.8	46.7	68.9	500	59.7	45.0	74.4	300	--			
Any breastfeeding, 3 months after delivery	84.0	78.1	90.0	1,600	86.2 *	76.0	96.4	500	83.9 *	74.2	93.5	600	79.5 *	65.4	93.7	400	--			
Exclusive breastfeeding, 3 months after delivery	50.9	43.1	58.6	1,000	51.2	36.7	65.6	300	48.6	36.5	60.7	300	40.3	24.9	55.7	200	--			

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	77.0	71.5	82.5	2,000	78.9	68.8	89.1	600	75.6	66.4	84.7	700	72.5	61.0	84.1	400	--			
Initiated prenatal care in 1st trimester	91.2	87.7	94.7	2,300	91.2 *	84.3	98.2	700	93.1 *	88.4	97.7	900	89.8 *	82.8	96.9	500	--			
Received dental care during pregnancy	56.9	50.2	63.5	1,500	58.1	45.5	70.8	500	61.5	51.3	71.7	600	47.0	33.4	60.7	300	58.6 *	25.8	91.3	<100
Received a Tdap vaccine during pregnancy	64.4	58.0	70.8	1,700	65.8	53.9	77.8	500	61.0	50.8	71.2	600	60.8	47.6	74.1	300	47.1 *	13.6	80.7	<100
Received a flu shot during pregnancy	70.3	64.2	76.5	1,800	66.5	54.6	78.5	500	79.1	70.8	87.5	800	63.1	50.1	76.1	400	54.9 *	20.2	89.6	<100
Had a postpartum medical visit	89.1	84.8	93.5	2,300	91.4 *	84.5	98.4	700	85.1	77.2	93.0	800	--				--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	30.8	24.6	37.0	800	24.8	13.4	36.1	200	28.5	19.6	37.4	300	45.3	31.6	59.1	300	--			
Uninsured	15.9	10.9	20.8	400	8.7 *	1.5	15.9	<100	17.4	9.1	25.7	200	23.1	11.8	34.3	100	--			
Private	51.9	45.3	58.6	1,300	63.2	50.7	75.6	500	53.2	42.9	63.4	500	31.6	18.8	44.3	200	61.8 *	27.8	95.9	<100
Prenatal insurance																				
Medi-Cal	51.2	44.5	57.8	1,300	38.7	26.2	51.2	300	48.3	38.1	58.6	500	75.4	64.1	86.8	400	--			
Uninsured	--				--				--				--				--			
Private	47.0	40.4	53.7	1,200	61.3	48.8	73.8	500	48.9	38.6	59.2	500	21.9	10.9	32.9	100	61.8 *	27.8	95.9	<100
Had any gaps in insurance during pregnancy	5.8	3.3	8.3	200	5.3 *	0.3	10.3	<100	4.9 *	1.5	8.4	<100	8.9 *	2.3	15.5	<100	--			
Maternal postpartum insurance																				
Medi-Cal	40.4	33.9	47.0	1,000	32.0	19.8	44.3	200	36.2	26.3	46.0	400	64.5	51.4	77.6	400	--			
Uninsured	13.7	9.1	18.2	400	6.1 *	0.7	11.5	<100	14.4	7.4	21.4	100	18.7 *	7.3	30.0	100	--			
Private	45.9	39.3	52.5	1,200	61.8	49.4	74.3	500	49.4	39.1	59.7	500	16.8	7.4	26.2	<100	61.8 *	27.8	95.9	<100
Infant health insurance																				
Medi-Cal	56.6	50.0	63.2	1,500	38.4	25.8	50.9	300	55.2	44.9	65.5	500	87.2 *	79.0	95.5	500	--			
Uninsured	--				--				--				--				--			
Private	43.0	36.4	49.6	1,100	61.6	49.1	74.2	500	44.8	34.5	55.1	400	10.8 *	3.3	18.3	<100	61.8 *	27.8	95.9	<100
Maternal Demographics																				
Age																				
15-19	4.1	1.8	6.4	100	--				6.3 *	2.1	10.5	<100	--				--			
20-34	68.8	62.4	75.2	1,800	62.4	49.7	75.1	500	75.5	66.5	84.4	700	66.4	53.3	79.5	400	--			
35+	27.1	20.8	33.4	700	34.6	22.0	47.2	300	18.2	9.7	26.7	200	30.0	17.1	42.9	200	--			
First live birth	40.4	34.0	46.9	1,100	41.2	29.1	53.3	300	45.1	34.8	55.4	400	28.7	16.9	40.5	200	51.2 *	17.3	85.2	<100
Less than high school education (or GED)	17.7	12.7	22.7	500	10.8 *	4.0	17.6	<100	16.6	9.4	23.8	200	30.5	17.7	43.2	200	--			
Unmarried	39.5	32.9	46.1	1,000	30.3	18.0	42.7	200	37.9	27.6	48.2	400	55.0	41.3	68.8	300	--			
Race/Ethnicity																				
White	41.7	35.1	48.2	1,100	60.0	47.5	72.6	500	41.1	31.0	51.2	400	13.9 *	5.7	22.2	<100	54.5 *	20.7	88.2	<100
Hispanic	55.3	48.7	62.0	1,400	36.7	24.3	49.1	300	57.1	47.0	67.3	600	85.0	76.5	93.5	500	--			
Asian/Pacific Islander	2.8 *	0.7	4.8	<100	--				--				--				--			
Black	--				--				--				--				--			
Born outside the U.S.	33.0	27.0	39.0	900	23.0	13.5	32.5	200	33.6	24.4	42.8	300	45.6	32.0	59.2	300	--			
Speaks non-English language at home	33.9	27.7	40.0	900	15.7	7.9	23.4	100	35.4	25.7	45.1	400	50.1	36.3	63.8	300	--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	31.4	25.0	37.7	800	26.9	16.0	37.8	200	29.2	19.6	38.7	300	41.2	27.0	55.4	200	--			
101-200%	21.3	15.6	27.1	500	13.0 *	2.4	23.5	<100	24.0	14.9	33.2	200	31.9	18.4	45.3	200	--			
> 200%	47.3	40.4	54.2	1,200	60.2	47.3	73.0	400	46.8	36.0	57.6	400	27.0	14.2	39.7	100	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	51.2	44.5 - 57.8	1,300	47.0	40.4 - 53.7	1,200
Health Status before Pregnancy									
In good to excellent health	87.9	83.2 - 92.6	2,300	81.6	73.5 - 89.7	1,100	94.6 *	90.6 - 98.7	1,200
Chronic conditions									
Diabetes	2.8 *	1.0 - 4.7	<100	3.7 *	0.7 - 6.7	<100	--		
Hypertension	--			--			--		
Asthma	6.4	3.3 - 9.6	200	6.6 *	2.1 - 11.1	<100	6.5 *	2.0 - 10.9	<100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	31.9	22.8 - 41.0	400	49.6	39.9 - 59.3	600
Overweight before pregnancy†	27.6	21.7 - 33.6	700	30.0	21.2 - 38.9	400	26.1	17.9 - 34.3	300
Obese before pregnancy†	22.5	16.7 - 28.3	600	30.8	21.8 - 39.8	400	12.7	5.5 - 20.0	100
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	28.2	18.9 - 37.4	300	16.8	9.1 - 24.4	200
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	41.2	31.5 - 50.9	500	49.8	39.9 - 59.7	500
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	27.1	18.8 - 35.4	400	5.4 *	0.8 - 10.0	<100
Nutrition Program Participation									
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	70.3	60.7 - 79.9	900	4.8 *	0.9 - 8.7	<100
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	45.6	36.2 - 54.9	600	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	9.9 *	1.9 - 17.9	100	--		
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	15.6	9.7 - 21.6	200	10.9	5.1 - 16.6	100
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	16.2	9.5 - 22.9	200	9.2	3.8 - 14.6	100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	2.9 *	0.4 - 5.5	<100	--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	9.7 *	3.0 - 16.3	100	--		
Woman or partner lost job	13.8	9.3 - 18.3	400	19.7	12.4 - 27.0	300	7.2 *	2.0 - 12.4	<100
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	16.6	8.4 - 24.8	200	3.1 *	0.4 - 5.7	<100
Became separated or divorced	6.1	3.1 - 9.2	200	9.3	4.1 - 14.5	100	--		
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	4.7 *	1.0 - 8.5	<100	--		
Substance Use									
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	5.5 *	1.2 - 9.8	<100	--		
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	12.4	5.2 - 19.6	200	27.0	18.1 - 35.9	300
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	4.8 *	1.9 - 7.7	<100	20.3	13.3 - 27.3	200
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	8.9 *	2.8 - 15.0	100	5.3 *	1.0 - 9.6	<100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	28.4	20.5 - 36.3	400	16.3	8.5 - 24.1	200
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	15.5	8.1 - 22.9	200	10.9	4.7 - 17.1	100
Postpartum birth control use	84.5	79.3 - 89.6	2,200	84.3	77.1 - 91.5	1,100	84.1	76.5 - 91.7	1,000
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	83.0	76.2 - 89.8	1,100	87.6	81.3 - 93.8	1,100
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	54.8	45.4 - 64.1	700	33.2	24.3 - 42.2	400
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	90.6 *	84.4 - 96.9	1,200	--		
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	64.8	55.7 - 73.9	900	81.6	73.2 - 90.1	1,000
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	92.0 *	86.5 - 97.5	1,200	92.3 *	86.0 - 98.7	1,100
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	55.4	45.3 - 65.6	600	66.2	56.3 - 76.0	800
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	81.0	72.2 - 89.7	800	87.4 *	79.3 - 95.5	800
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	39.2	28.6 - 49.8	400	62.0	50.7 - 73.4	600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.0	71.5	82.5	2,000	74.0	66.0	81.9	1,000	80.8	73.2	88.4	1,000
Initiated prenatal care in 1st trimester	91.2	87.7	94.7	2,300	86.0	80.2	91.8	1,100	--			
Received dental care during pregnancy	56.9	50.2	63.5	1,500	47.1	37.8	56.3	600	69.2	60.2	78.2	800
Received a Tdap vaccine during pregnancy	64.4	58.0	70.8	1,700	55.3	46.0	64.6	700	76.1	67.3	84.8	900
Received a flu shot during pregnancy	70.3	64.2	76.5	1,800	75.2	67.2	83.2	1,000	65.5	56.1	75.0	800
Had a postpartum medical visit	89.1	84.8	93.5	2,300	84.9	77.9	91.9	1,100	93.7 *	88.7	98.7	1,100
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.8	24.6	37.0	800	60.4	51.2	69.6	800	--			
Uninsured	15.9	10.9	20.8	400	28.9	20.2	37.6	400	--			
Private	51.9	45.3	58.6	1,300	9.8	4.4	15.1	100	--			
Had any gaps in insurance during pregnancy	5.8	3.3	8.3	200	6.2	2.9	9.6	<100	--			
Maternal postpartum insurance												
Medi-Cal	40.4	33.9	47.0	1,000	74.5	66.5	82.5	1,000	3.9 *	0.4	7.4	<100
Uninsured	13.7	9.1	18.2	400	23.4	15.5	31.2	300	--			
Private	45.9	39.3	52.5	1,200	2.1 *	0.2	4.1	<100	94.8 *	90.6	99.0	1,200
Infant health insurance												
Medi-Cal	56.6	50.0	63.2	1,500	--				10.1	4.4	15.7	100
Uninsured	--				--				--			
Private	43.0	36.4	49.6	1,100	--				89.9	84.3	95.6	1,100
Maternal Demographics												
Age												
15-19	4.1	1.8	6.4	100	5.1 *	1.8	8.4	<100	--			
20-34	68.8	62.4	75.2	1,800	74.5	65.8	83.3	1,000	62.7	53.2	72.2	800
35+	27.1	20.8	33.4	700	20.4	11.9	28.9	300	34.7	25.3	44.1	400
First live birth	40.4	34.0	46.9	1,100	30.8	22.4	39.3	400	50.3	40.6	59.9	600
Less than high school education (or GED)	17.7	12.7	22.7	500	34.1	25.3	42.9	400	--			
Unmarried	39.5	32.9	46.1	1,000	60.3	50.9	69.7	800	18.1	9.6	26.7	200
Race/Ethnicity												
White	41.7	35.1	48.2	1,100	17.1	9.4	24.8	200	69.2	59.7	78.7	800
Hispanic	55.3	48.7	62.0	1,400	80.7	72.7	88.6	1,100	26.8	17.4	36.1	300
Asian/Pacific Islander	2.8 *	0.7	4.8	<100	--				4.0 *	0.5	7.5	<100
Black	--				--				--			
Born outside the U.S.	33.0	27.0	39.0	900	49.9	40.5	59.3	700	13.3	7.0	19.7	200
Speaks non-English language at home	33.9	27.7	40.0	900	58.0	48.6	67.4	800	6.1 *	1.9	10.2	<100
Lives in a high poverty neighborhood†	3.8 *	1.3	6.3	<100	--				5.0 *	1.0	9.0	<100
Income as a percent of the Federal Poverty Guideline												
0-100%	31.4	25.0	37.7	800	59.0	49.0	69.0	700	--			
101-200%	21.3	15.6	27.1	500	34.4	24.8	44.1	400	8.1 *	3.1	13.1	<100
> 200%	47.3	40.4	54.2	1,200	6.6 *	0.9	12.2	<100	88.5	82.5	94.6	1,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Santa Cruz County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	55.3	48.7 - 62.0	1,400	--			41.7	35.1 - 48.2	1,100	2.8 *	0.7 - 4.8	<100
Health Status before Pregnancy															
In good to excellent health	87.9	83.2 - 92.6	2,300	83.6	77.0 - 90.3	1,200	--			92.3 *	84.9 - 99.6	1,000	--		
Chronic conditions															
Diabetes	2.8 *	1.0 - 4.7	<100	3.9 *	0.9 - 6.9	<100	--			--			--		
Hypertension	--			--			--			--			--		
Asthma	6.4	3.3 - 9.6	200	5.7 *	1.3 - 10.1	<100	--			8.0 *	3.2 - 12.9	<100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	31.1	22.5 - 39.8	400	--			51.1	40.8 - 61.3	500	--		
Overweight before pregnancy†	27.6	21.7 - 33.6	700	32.1	23.2 - 40.9	400	--			21.1	13.2 - 29.0	200	--		
Obese before pregnancy†	22.5	16.7 - 28.3	600	32.2	23.1 - 41.2	400	--			12.9	5.7 - 20.1	100	--		
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	30.3	20.9 - 39.7	400	--			14.7	7.6 - 21.9	100	--		
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	41.2	31.6 - 50.7	500	--			48.1	37.9 - 58.3	500	--		
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	25.8	17.7 - 33.8	400	--			3.2 *	0.3 - 6.1	<100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	62.9	53.6 - 72.2	900	--			8.3 *	3.3 - 13.3	<100	--		
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	38.2	29.3 - 47.1	500	--			6.5 *	2.4 - 10.6	<100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	9.3 *	1.9 - 16.6	100	--			--			--		
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	17.3	11.1 - 23.5	200	--			8.9 *	3.4 - 14.3	<100	--		
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	16.3	9.7 - 22.8	200	--			9.5 *	3.6 - 15.4	100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	--			--			--			--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	5.4 *	1.0 - 9.8	<100	--			9.6 *	2.0 - 17.2	100	--		
Woman or partner lost job	13.8	9.3 - 18.3	400	15.2	8.7 - 21.7	200	--			11.6	5.1 - 18.1	100	--		
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	8.6 *	2.7 - 14.5	100	--			12.9 *	5.1 - 20.8	100	--		
Became separated or divorced	6.1	3.1 - 9.2	200	9.3	4.3 - 14.3	100	--			--			--		
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	5.8 *	1.8 - 9.7	<100	--			--			--		
Often experienced racism over her lifetime	9.0	5.0 - 13.0	200	12.2	6.3 - 18.2	200	--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	--			--			6.9 *	2.4 - 11.4	<100	--		
Any smoking, 3rd trimester	--			--			--			--			--		
Any smoking, postpartum	--			--			--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	13.4	5.9 - 20.9	200	--			27.7	18.5 - 37.0	300	--		
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	2.1 *	0.4 - 3.7	<100	--			26.5	18.4 - 34.7	300	--		
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	--			--			9.9	4.2 - 15.6	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	28.0	20.0 - 36.1	400	--			15.6	8.7 - 22.5	200	--		
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	15.4	8.3 - 22.5	200	--			10.6 *	4.2 - 17.0	100	--		
Postpartum birth control use	84.5	79.3 - 89.6	2,200	84.6	77.4 - 91.8	1,200	--			84.7	76.9 - 92.5	900	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	81.2	74.1 - 88.2	1,100	--			91.3	86.2 - 96.4	1,000	--		
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	48.0	38.8 - 57.2	700	--			38.5	28.4 - 48.7	400	--		
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	90.4 *	84.2 - 96.6	1,300	--			--			--		
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	61.8	52.7 - 71.0	900	--			85.8	78.1 - 93.5	900	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	90.9 *	85.2 - 96.7	1,300	--			93.3 *	87.0 - 99.7	1,000	--		
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	53.2	43.3 - 63.1	700	--			71.2	60.9 - 81.4	700	--		
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	79.0	70.2 - 87.9	900	--			90.8 *	83.4 - 98.2	700	--		
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	35.8	25.6 - 46.0	400	--			70.4	59.9 - 80.9	500	--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.0	71.5 - 82.5	2,000	76.2	68.4 - 84.0	1,100	--			77.4	69.3 - 85.5	800	--		
Initiated prenatal care in 1st trimester	91.2	87.7 - 94.7	2,300	91.8	87.2 - 96.3	1,300	--			91.3 *	85.6 - 97.0	1,000	--		
Received dental care during pregnancy	56.9	50.2 - 63.5	1,500	49.3	40.2 - 58.5	700	--			67.3	57.5 - 77.1	700	--		
Received a Tdap vaccine during pregnancy	64.4	58.0 - 70.8	1,700	53.7	44.5 - 63.0	800	--			78.7	71.1 - 86.2	800	--		
Received a flu shot during pregnancy	70.3	64.2 - 76.5	1,800	70.3	61.3 - 79.2	1,000	--			69.1	60.3 - 77.9	700	--		
Had a postpartum medical visit	89.1	84.8 - 93.5	2,300	86.5	79.7 - 93.3	1,200	--			92.7 *	87.6 - 97.7	1,000	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	30.8	24.6 - 37.0	800	44.0	34.9 - 53.0	600	--			14.5	6.5 - 22.5	200	--		
Uninsured	15.9	10.9 - 20.8	400	23.6	15.8 - 31.4	300	--			5.6 *	0.4 - 10.9	<100	--		
Private	51.9	45.3 - 58.6	1,300	30.1	21.4 - 38.8	400	--			79.5	70.5 - 88.5	900	--		
Prenatal insurance															
Medi-Cal	51.2	44.5 - 57.8	1,300	75.0	66.7 - 83.4	1,100	--			21.1	11.9 - 30.2	200	--		
Uninsured	--			--			--			--			--		
Private	47.0	40.4 - 53.7	1,200	22.6	14.4 - 30.9	300	--			77.6	68.3 - 86.8	800	--		
Had any gaps in insurance during pregnancy	5.8	3.3 - 8.3	200	5.5	2.4 - 8.5	<100	--			6.3 *	1.8 - 10.8	<100	--		
Maternal postpartum insurance															
Medi-Cal	40.4	33.9 - 47.0	1,000	56.9	47.7 - 66.0	800	--			20.2	11.4 - 29.1	200	--		
Uninsured	13.7	9.1 - 18.2	400	21.3	14.1 - 28.5	300	--			--			--		
Private	45.9	39.3 - 52.5	1,200	21.8	13.7 - 29.9	300	--			75.9	66.4 - 85.4	800	--		
Infant health insurance															
Medi-Cal	56.6	50.0 - 63.2	1,500	81.0	73.0 - 89.0	1,100	--			27.0	17.3 - 36.6	300	--		
Uninsured	--			--			--			--			--		
Private	43.0	36.4 - 49.6	1,100	18.2	10.3 - 26.1	300	--			73.0	63.4 - 82.7	800	--		
Maternal Demographics															
Age															
15-19	4.1	1.8 - 6.4	100	6.0 *	2.5 - 9.5	<100	--			--			--		
20-34	68.8	62.4 - 75.2	1,800	75.8	67.9 - 83.8	1,100	--			58.5	48.1 - 68.9	600	--		
35+	27.1	20.8 - 33.4	700	18.2	10.7 - 25.7	300	--			39.4	29.0 - 49.8	400	--		
First live birth	40.4	34.0 - 46.9	1,100	32.9	24.4 - 41.5	500	--			47.6	37.5 - 57.7	500	--		
Less than high school education (or GED)	17.7	12.7 - 22.7	500	31.8	23.4 - 40.2	400	--			--			--		
Unmarried	39.5	32.9 - 46.1	1,000	59.8	50.8 - 68.7	800	--			15.7	8.5 - 22.9	200	--		
Born outside the U.S.	33.0	27.0 - 39.0	900	50.0	40.9 - 59.2	700	--			9.6 *	3.8 - 15.3	100	--		
Speaks non-English language at home	33.9	27.7 - 40.0	900	56.0	46.7 - 65.3	800	--			--			--		
Lives in a high poverty neighborhood†	3.8 *	1.3 - 6.3	<100	--			--			5.1 *	0.7 - 9.5	<100	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	31.4	25.0 - 37.7	800	48.2	38.6 - 57.8	600	--			9.1	3.9 - 14.4	<100	--		
101-200%	21.3	15.6 - 27.1	500	28.2	19.8 - 36.5	400	--			13.0 *	4.6 - 21.4	100	--		
> 200%	47.3	40.4 - 54.2	1,200	23.6	14.7 - 32.6	300	--			77.9	68.7 - 87.0	800	--		

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MIHA Data Snapshot, Santa Cruz County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,600	40.4	34.0 - 46.9	1,100	59.6	53.1 - 66.0	1,600
Health Status before Pregnancy									
In good to excellent health	87.9	83.2 - 92.6	2,300	88.5 *	81.3 - 95.8	900	87.5	81.2 - 93.7	1,400
Chronic conditions									
Diabetes	2.8 *	1.0 - 4.7	<100	--			3.0 *	0.6 - 5.5	<100
Hypertension	--			--			--		
Asthma	6.4	3.3 - 9.6	200	5.7 *	1.3 - 10.0	<100	6.9 *	2.6 - 11.3	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	40.4	33.8 - 46.9	1,000	43.5	33.5 - 53.5	500	38.2	29.6 - 46.8	600
Overweight before pregnancy†	27.6	21.7 - 33.6	700	27.4	18.3 - 36.5	300	27.8	19.9 - 35.6	400
Obese before pregnancy†	22.5	16.7 - 28.3	600	18.8	9.4 - 28.2	200	24.8	17.3 - 32.3	400
Inadequate weight gain during pregnancy†	22.9	16.9 - 28.9	500	21.8	12.0 - 31.6	200	23.6	16.0 - 31.3	300
Excessive weight gain during pregnancy†	44.7	37.9 - 51.5	1,000	43.6	32.8 - 54.3	400	45.4	36.6 - 54.3	600
Food insecurity during pregnancy	16.8	11.8 - 21.8	400	20.6	11.9 - 29.2	200	14.2	8.4 - 20.0	200
Nutrition Program Participation									
Participated in WIC during pregnancy	39.5	33.1 - 45.9	1,000	28.6	19.6 - 37.6	300	46.9	38.1 - 55.7	700
Received CalFresh (food stamps) during pregnancy	23.8	18.2 - 29.5	600	9.4 *	3.3 - 15.6	<100	33.7	25.5 - 42.0	500
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.8 *	2.3 - 11.3	200	--			7.2 *	2.1 - 12.2	100
Prenatal depressive symptoms†	13.1	9.0 - 17.1	300	16.9	9.8 - 24.1	200	10.4	5.7 - 15.1	200
Postpartum depressive symptoms†	13.0	8.7 - 17.3	300	15.0	7.9 - 22.1	200	11.6	6.2 - 17.1	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.6 *	0.7 - 4.5	<100	4.7 *	0.5 - 8.9	<100	--		
Moved due to problems paying rent or mortgage	7.1	3.1 - 11.1	200	8.0 *	1.9 - 14.2	<100	6.5 *	1.2 - 11.8	100
Woman or partner lost job	13.8	9.3 - 18.3	400	15.2	8.0 - 22.4	200	12.9	7.1 - 18.6	200
Woman or partner had pay or hours cut back	10.7	6.1 - 15.3	300	10.0	4.8 - 15.3	100	11.2 *	4.3 - 18.0	200
Became separated or divorced	6.1	3.1 - 9.2	200	8.7 *	3.0 - 14.5	<100	4.4 *	1.1 - 7.7	<100
Had no practical or emotional support	3.6 *	1.3 - 6.0	<100	--			3.2 *	0.6 - 5.8	<100
Substance Use									
Any smoking, 3 months before pregnancy	4.4 *	1.7 - 7.1	100	5.9 *	1.8 - 10.1	<100	--		
Any smoking, 3rd trimester	--			--			--		
Any smoking, postpartum	--			--			--		
Any binge drinking, 3 months before pregnancy	19.2	13.5 - 24.8	500	22.6	12.9 - 32.3	200	16.8	10.1 - 23.5	300
Any alcohol use, 3rd trimester	12.5	8.8 - 16.3	300	13.1	7.3 - 18.9	100	12.1	7.2 - 17.0	200
Any cannabis use during pregnancy	7.0	3.3 - 10.7	200	--			7.7 *	2.9 - 12.4	100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	22.7	17.3 - 28.2	600	18.3	10.4 - 26.2	200	25.8	18.3 - 33.2	400
Unsure of pregnancy intentions	13.2	8.4 - 18.0	300	19.1	10.6 - 27.7	200	9.2 *	3.7 - 14.6	100
Postpartum birth control use	84.5	79.3 - 89.6	2,200	75.5	66.1 - 84.8	800	90.4	84.8 - 96.0	1,400
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	85.2	80.6 - 89.8	2,200	87.0	80.3 - 93.7	900	83.9	77.7 - 90.2	1,300
Infant always or often shared bed	44.8	38.1 - 51.4	1,200	43.7	33.6 - 53.7	500	45.5	36.7 - 54.4	700
Intended to breastfeed, before birth	92.2	88.0 - 96.3	2,400	89.3 *	81.6 - 97.0	900	94.1 *	89.6 - 98.7	1,400
Intended to breastfeed exclusively, before birth	72.8	66.5 - 79.0	1,900	77.6	68.7 - 86.5	800	69.5	61.0 - 77.9	1,100
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	92.3	88.2 - 96.4	2,300	90.8 *	84.1 - 97.5	900	93.3 *	88.3 - 98.4	1,400
Exclusive breastfeeding, 1 month after delivery	61.4	54.4 - 68.4	1,500	60.4	50.2 - 70.7	600	62.1	52.6 - 71.5	900
Any breastfeeding, 3 months after delivery	84.0	78.1 - 90.0	1,600	83.4	74.2 - 92.6	700	84.5	76.7 - 92.3	900
Exclusive breastfeeding, 3 months after delivery	50.9	43.1 - 58.6	1,000	55.5	44.0 - 67.0	500	47.2	36.9 - 57.6	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Santa Cruz County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Santa Cruz County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.0	71.5	82.5	2,000	69.9	60.6	79.2	700	81.9	75.5	88.3	1,300
Initiated prenatal care in 1st trimester	91.2	87.7	94.7	2,300	92.9 *	87.9	97.9	1,000	90.1	85.3	94.9	1,400
Received dental care during pregnancy	56.9	50.2	63.5	1,500	52.6	42.4	62.7	600	59.8	51.1	68.5	900
Received a Tdap vaccine during pregnancy	64.4	58.0	70.8	1,700	63.4	53.5	73.4	700	65.1	56.8	73.4	1,000
Received a flu shot during pregnancy	70.3	64.2	76.5	1,800	68.2	58.8	77.7	700	71.7	63.6	79.9	1,100
Had a postpartum medical visit	89.1	84.8	93.5	2,300	87.9	81.4	94.5	900	89.9	84.2	95.7	1,400
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.8	24.6	37.0	800	16.0	9.2	22.7	200	41.0	32.2	49.7	600
Uninsured	15.9	10.9	20.8	400	16.9	9.0	24.7	200	15.2	8.8	21.6	200
Private	51.9	45.3	58.6	1,300	66.0	56.5	75.4	700	42.3	33.6	51.0	700
Prenatal insurance												
Medi-Cal	51.2	44.5	57.8	1,300	38.9	29.1	48.8	400	59.5	50.9	68.1	900
Uninsured	--				--				--			
Private	47.0	40.4	53.7	1,200	58.4	48.4	68.3	600	39.3	30.7	47.9	600
Had any gaps in insurance during pregnancy	5.8	3.3	8.3	200	7.1	3.1	11.1	<100	4.9 *	1.7	8.2	<100
Maternal postpartum insurance												
Medi-Cal	40.4	33.9	47.0	1,000	32.0	22.7	41.3	300	46.2	37.4	55.0	700
Uninsured	13.7	9.1	18.2	400	13.7	6.4	20.9	100	13.7	7.8	19.5	200
Private	45.9	39.3	52.5	1,200	54.4	44.3	64.4	600	40.1	31.5	48.7	600
Infant health insurance												
Medi-Cal	56.6	50.0	63.2	1,500	48.8	38.7	58.9	500	62.0	53.4	70.6	900
Uninsured	--				--				--			
Private	43.0	36.4	49.6	1,100	51.2	41.1	61.3	500	37.3	28.7	45.8	600
Maternal Demographics												
Age												
15-19	4.1	1.8	6.4	100	9.0 *	3.6	14.4	<100	--			
20-34	68.8	62.4	75.2	1,800	71.1	61.4	80.8	700	67.3	58.8	75.7	1,000
35+	27.1	20.8	33.4	700	19.9	10.8	28.9	200	32.0	23.5	40.4	500
Less than high school education (or GED)	17.7	12.7	22.7	500	8.7 *	2.5	14.8	<100	23.9	16.7	31.0	400
Unmarried	39.5	32.9	46.1	1,000	39.9	29.7	50.0	400	39.2	30.5	48.0	600
Race/Ethnicity												
White	41.7	35.1	48.2	1,100	48.6	38.4	58.7	500	36.9	28.3	45.4	600
Hispanic	55.3	48.7	62.0	1,400	44.6	34.4	54.8	500	62.7	54.2	71.3	1,000
Asian/Pacific Islander	2.8 *	0.7	4.8	<100	6.2 *	1.4	11.1	<100	--			
Black	--				--				--			
Born outside the U.S.	33.0	27.0	39.0	900	29.5	20.3	38.6	300	35.4	27.5	43.3	500
Speaks non-English language at home	33.9	27.7	40.0	900	29.9	20.5	39.3	300	36.6	28.3	44.8	600
Lives in a high poverty neighborhood†	3.8 *	1.3	6.3	<100	4.8 *	0.7	8.9	<100	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	31.4	25.0	37.7	800	18.9	11.4	26.4	200	39.4	30.6	48.3	600
101-200%	21.3	15.6	27.1	500	23.2	13.8	32.6	200	20.1	12.9	27.4	300
> 200%	47.3	40.4	54.2	1,200	57.9	47.5	68.3	600	40.4	31.5	49.4	600

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Santa Cruz County, n=190).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Santa Cruz County was 297. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			2,000	4.9 *	1.4	8.4	<100	82.3	76.2	88.5	1,600	12.8	7.3	18.2	300
Health Status before Pregnancy																
In good to excellent health	92.9	89.6	96.3	1,800	--				92.1	88.3	96.0	1,500	--			
Chronic conditions																
Diabetes	--				--				--				--			
Hypertension	4.0 *	1.1	7.0	<100	--				4.0 *	0.6	7.3	<100	--			
Asthma	8.8	5.4	12.2	200	--				9.6	5.8	13.4	200	--			
Nutrition and Weight																
Daily folic acid use, month before pregnancy	35.9	29.0	42.7	700	--				36.4	28.9	43.9	600	39.4	18.3	60.5	<100
Overweight before pregnancy†	26.0	20.1	32.0	500	--				27.4	20.8	33.9	400	14.5 *	1.9	27.0	<100
Obese before pregnancy†	25.4	18.7	32.1	500	--				24.3	17.8	30.9	400	40.4 *	14.3	66.4	<100
Inadequate weight gain during pregnancy†	18.5	12.6	24.4	300	--				17.8	11.6	24.0	300	22.6 *	4.1	41.0	<100
Excessive weight gain during pregnancy†	52.5	45.3	59.7	900	--				49.8	42.0	57.6	700	59.5	38.6	80.5	100
Food insecurity during pregnancy	17.5	12.2	22.9	300	--				15.9	10.7	21.1	300	--			
Nutrition Program Participation																
Participated in WIC during pregnancy	51.8	44.6	59.0	1,000	--				50.8	43.2	58.5	800	41.3	19.3	63.3	100
Received CalFresh (food stamps) during pregnancy	28.3	22.1	34.6	600	--				24.7	18.5	30.9	400	31.1 *	11.3	51.0	<100
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6	11.2	100	--				5.4 *	1.7	9.1	<100	--			
Prenatal depressive symptoms†	14.6	9.3	19.8	300	--				13.8	8.3	19.4	200	--			
Postpartum depressive symptoms†	13.8	9.1	18.5	300	--				12.2	7.5	16.9	200	--			
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	5.7 *	1.9	9.6	100	--				4.5 *	1.0	7.9	<100	--			
Moved due to problems paying rent or mortgage	7.4	4.2	10.7	100	--				7.5	3.9	11.1	100	--			
Woman or partner lost job	16.3	10.4	22.1	300	--				11.9	7.5	16.2	200	30.3 *	3.2	57.5	<100
Woman or partner had pay or hours cut back	16.8	11.6	21.9	300	--				16.8	11.4	22.2	300	--			
Became separated or divorced	6.4	3.0	9.8	100	--				7.4	3.3	11.4	100	--			
Had no practical or emotional support	1.0 *	0.1	1.9	<100	--				1.2 *	0.1	2.3	<100	--			
Substance Use																
Any smoking, 3 months before pregnancy	26.0	19.6	32.5	500	--				24.3	17.5	31.1	400	18.8 *	2.7	34.9	<100
Any smoking, 3rd trimester	11.5	6.9	16.1	200	--				9.8	5.4	14.3	200	--			
Any smoking, postpartum	18.0	12.1	23.8	400	--				16.7	10.6	22.9	300	--			
Any binge drinking, 3 months before pregnancy	23.2	16.7	29.7	400	--				20.9	14.7	27.0	300	34.4 *	7.9	60.9	<100
Any alcohol use, 3rd trimester	3.9 *	1.3	6.5	<100	--				3.9 *	1.2	6.6	<100	--			
Any cannabis use during pregnancy	13.7	7.3	20.0	300	--				14.5	7.3	21.8	200	--			
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	24.5	17.5	31.5	500	59.1 *	23.2	94.9	<100	24.4	16.7	32.2	400	--			
Unsure of pregnancy intentions	18.5	12.8	24.2	400	--				16.9	10.9	22.8	300	23.8 *	6.4	41.1	<100
Postpartum birth control use	79.5	73.6	85.4	1,500	62.3 *	26.9	97.7	<100	80.6	74.3	86.9	1,300	79.2 *	63.0	95.4	200
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	83.5	78.5	88.4	1,600	--				85.0	79.9	90.0	1,400	72.6 *	53.0	92.1	200
Infant always or often shared bed	34.7	27.9	41.5	700	--				35.1	27.8	42.4	600	27.9 *	8.9	47.0	<100
Intended to breastfeed, before birth	93.7 *	87.7	99.7	1,800	--				--				--			
Intended to breastfeed exclusively, before birth	80.7	73.9	87.5	1,500	--				80.6	72.8	88.3	1,300	77.0 *	60.4	93.7	200
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	85.9	79.3	92.5	1,600	--				86.1	78.7	93.5	1,400	--			
Exclusive breastfeeding, 1 month after delivery	65.3	57.9	72.7	1,200	--				65.7	57.5	73.8	1,000	60.3	40.3	80.4	100
Any breastfeeding, 3 months after delivery	74.4	66.3	82.5	1,200	--				74.0	64.9	83.1	1,000	--			
Exclusive breastfeeding, 3 months after delivery	47.6	39.2	56.0	700	--				49.4	40.2	58.7	600	36.7 *	13.5	59.9	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	65.4	58.5	72.2	1,300	--				62.7	55.2	70.3	1,000	73.5 *	55.1	91.9	200
Initiated prenatal care in 1st trimester	88.3	84.0	92.6	1,700	--				87.5	82.6	92.4	1,400	--			
Received dental care during pregnancy	44.3	36.8	51.8	900	--				42.6	34.5	50.6	700	59.0	37.6	80.4	100
Received a Tdap vaccine during pregnancy	23.5	17.7	29.3	500	--				25.8	19.3	32.3	400	--			
Received a flu shot during pregnancy	38.5	30.9	46.1	700	--				36.0	28.0	44.0	600	54.4	32.1	76.7	100
Had a postpartum medical visit	90.0	85.8	94.2	1,800	--				90.1	85.5	94.7	1,400	--			
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	43.5	36.2	50.7	900	--				41.7	34.0	49.5	700	35.3	15.0	55.6	<100
Uninsured	11.3	6.9	15.7	200	--				12.8	7.7	17.8	200	--			
Private	43.9	36.4	51.5	900	--				44.3	36.1	52.4	700	58.5	36.8	80.2	100
Prenatal insurance																
Medi-Cal	61.0	53.4	68.6	1,200	--				61.5	53.3	69.7	1,000	45.1	22.8	67.4	100
Uninsured	--				--				--				--			
Private	35.9	28.2	43.5	700	--				35.3	27.1	43.5	600	50.9	27.9	73.8	100
Had any gaps in insurance during pregnancy	9.3	5.0	13.6	200	--				8.5	4.3	12.8	100	--			
Maternal postpartum insurance																
Medi-Cal	53.5	46.0	61.0	1,100	--				50.5	42.5	58.6	800	57.0	33.0	81.0	100
Uninsured	7.5	4.0	11.0	100	--				9.1	4.9	13.4	100	--			
Private	38.5	30.9	46.1	800	--				39.8	31.6	47.9	600	43.0	19.0	67.0	100
Infant health insurance																
Medi-Cal	64.1	56.4	71.7	1,200	--				63.6	55.4	71.8	1,000	54.4	29.9	78.9	100
Uninsured	2.1 *	0.3	3.8	<100	--				2.5 *	0.4	4.6	<100	--			
Private	33.4	25.7	41.0	600	--				33.3	25.1	41.5	500	45.6	21.1	70.1	100
Maternal Demographics																
First live birth	36.0	28.9	43.1	700	--				34.8	27.2	42.5	600	19.0 *	3.7	34.3	<100
Less than high school education (or GED)	9.1	5.1	13.1	200	--				7.6	3.8	11.5	100	--			
Unmarried	46.9	39.5	54.3	900	--				46.3	38.4	54.2	800	29.8 *	10.9	48.7	<100
Race/Ethnicity																
White	84.3	79.4	89.2	1,600	--				84.6	79.2	90.0	1,300	83.5 *	70.4	96.5	200
Hispanic	10.5	6.7	14.3	200	--				9.3	5.4	13.3	100	15.0 *	2.4	27.6	<100
Asian/Pacific Islander	2.8 *	0.2	5.4	<100	--				--				--			
Black	--				--				--				--			
Born outside the U.S.	6.5	3.1	9.9	100	--				6.2 *	2.4	9.9	100	--			
Speaks non-English language at home	6.8	3.4	10.2	100	--				6.5	2.8	10.3	100	--			
Lives in a high poverty neighborhood†	3.6	1.5	5.8	<100	--				4.2 *	1.6	6.7	<100	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	9.1	5.1 - 13.1	200	18.5	12.9 - 24.1	400	50.0	42.5 - 57.4	1,000	22.4	15.0 - 29.8	400
Health Status before Pregnancy															
In good to excellent health	92.9	89.6 - 96.3	1,800	75.4 *	54.7 - 96.1	100	--			94.5 *	90.6 - 98.4	900	--		
Chronic conditions															
Diabetes	--			--			--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	--			--			5.7 *	0.5 - 10.8	<100	--		
Asthma	8.8	5.4 - 12.2	200	24.1 *	6.5 - 41.7	<100	10.1 *	1.2 - 19.1	<100	6.9	3.2 - 10.7	<100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	22.0 *	5.4 - 38.7	<100	39.1	22.6 - 55.6	100	29.1	20.7 - 37.4	300	52.7	32.5 - 73.0	200
Overweight before pregnancy†	26.0	20.1 - 32.0	500	--			45.3	28.2 - 62.4	200	24.3	16.6 - 31.9	200	17.1 *	6.9 - 27.3	<100
Obese before pregnancy†	25.4	18.7 - 32.1	500	20.9 *	2.9 - 39.0	<100	12.1 *	1.0 - 23.2	<100	32.8	23.6 - 42.0	300	21.4 *	3.0 - 39.7	<100
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	--			27.3	11.7 - 43.0	<100	13.1 *	5.3 - 20.9	100	23.6	10.6 - 36.5	<100
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	63.8 *	39.1 - 88.4	<100	52.0	34.8 - 69.2	200	55.5	45.7 - 65.3	500	39.5	23.6 - 55.5	100
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	--			39.0	22.5 - 55.6	100	15.1	8.8 - 21.4	100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	78.4 *	60.5 - 96.3	100	76.5 *	60.8 - 92.2	300	51.7	42.1 - 61.3	500	16.2 *	3.4 - 29.1	<100
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	59.4	37.2 - 81.6	100	50.5	34.1 - 66.9	200	27.2	19.1 - 35.3	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	--			--			--			--		
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	23.5 *	4.9 - 42.2	<100	19.7 *	6.3 - 33.2	<100	16.7	8.6 - 24.9	200	--		
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	--			26.2	11.3 - 41.1	<100	12.8	6.8 - 18.9	100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	--			--			3.5 *	0.2 - 6.9	<100	--		
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	--			12.9 *	2.8 - 23.0	<100	7.6 *	2.9 - 12.2	<100	--		
Woman or partner lost job	16.3	10.4 - 22.1	300	29.7 *	7.2 - 52.3	<100	22.4 *	7.9 - 37.0	<100	14.5	8.4 - 20.5	100	--		
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	--			24.5	10.5 - 38.6	<100	19.2	12.0 - 26.4	200	6.6 *	0.1 - 13.2	<100
Became separated or divorced	6.4	3.0 - 9.8	100	--			--			6.5 *	2.1 - 10.9	<100	--		
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	61.9	40.6 - 83.3	100	33.9	18.0 - 49.7	100	24.0	15.2 - 32.9	200	7.8 *	0.9 - 14.7	<100
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	--			25.2 *	10.0 - 40.5	<100	10.8	4.7 - 17.0	100	--		
Any smoking, postpartum	18.0	12.1 - 23.8	400	50.7	27.9 - 73.5	<100	25.8	10.7 - 40.9	<100	15.4	7.1 - 23.7	100	--		
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	32.0 *	12.1 - 51.8	<100	28.0 *	11.2 - 44.8	<100	19.6	12.1 - 27.1	200	24.0 *	6.4 - 41.6	100
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	--			--			--			9.2 *	0.6 - 17.7	<100
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	33.0 *	10.4 - 55.6	<100	6.3 *	0.8 - 11.8	<100	11.7	5.9 - 17.4	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	40.6	17.0 - 64.1	<100	28.6	13.6 - 43.6	100	18.8	12.0 - 25.6	200	26.9 *	5.7 - 48.1	100
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	24.9 *	7.9 - 41.8	<100	32.6	16.6 - 48.5	100	20.0	11.6 - 28.5	200	--		
Postpartum birth control use	79.5	73.6 - 85.4	1,500	77.4 *	60.5 - 94.3	100	73.4 *	57.1 - 89.7	300	82.7	75.5 - 89.9	800	77.9 *	63.6 - 92.2	300
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	76.6 *	57.9 - 95.3	100	78.7 *	64.1 - 93.2	300	84.0	77.6 - 90.5	800	89.0 *	80.1 - 97.9	400
Infant always or often shared bed	34.7	27.9 - 41.5	700	56.2	34.1 - 78.4	100	37.6	21.7 - 53.5	100	32.7	24.0 - 41.4	300	26.8	11.7 - 41.9	100
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	--			--			--			--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	68.9 *	49.2 - 88.6	100	83.9 *	73.9 - 94.0	300	84.5	77.6 - 91.5	800	73.6 *	51.9 - 95.4	300
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	--			79.2 *	65.6 - 92.7	300	86.1	79.5 - 92.6	800	--		
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	72.7 *	53.4 - 92.0	100	67.6	52.1 - 83.2	200	63.9	54.8 - 73.0	600	61.9	40.4 - 83.4	200
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	63.8 *	41.4 - 86.2	<100	65.5	48.1 - 82.9	200	78.4	69.8 - 86.9	600	--		
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	32.8 *	10.4 - 55.1	<100	48.1	28.8 - 67.4	100	46.1	35.1 - 57.0	400	56.2	32.5 - 79.9	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	65.4	58.5 - 72.2	1,300	76.1 *	59.5 - 92.8	100	59.8	43.3 - 76.3	200	58.9	49.4 - 68.4	600	79.8 *	67.2 - 92.4	400
Initiated prenatal care in 1st trimester	88.3	84.0 - 92.6	1,700	76.8 *	58.2 - 95.4	100	--			84.6	77.7 - 91.6	800	--		
Received dental care during pregnancy	44.3	36.8 - 51.8	900	21.3 *	1.9 - 40.6	<100	33.7	18.6 - 48.9	100	39.7	30.5 - 48.9	400	74.2	59.8 - 88.7	300
Received a Tdap vaccine during pregnancy	23.5	17.7 - 29.3	500	21.2 *	4.1 - 38.4	<100	25.5	11.6 - 39.4	<100	21.9	14.3 - 29.4	200	27.1	12.0 - 42.1	100
Received a flu shot during pregnancy	38.5	30.9 - 46.1	700	42.6	19.9 - 65.3	<100	31.5	16.4 - 46.6	100	34.0	25.4 - 42.7	300	54.3	35.0 - 73.6	200
Had a postpartum medical visit	90.0	85.8 - 94.2	1,800	--			77.7 *	63.0 - 92.5	300	91.8 *	86.6 - 96.9	900	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	43.5	36.2 - 50.7	900	--			66.6	50.7 - 82.5	200	43.7	34.2 - 53.1	400	6.1 *	0.2 - 12.1	<100
Uninsured	11.3	6.9 - 15.7	200	--			8.0 *	1.4 - 14.5	<100	16.1	8.7 - 23.5	200	--		
Private	43.9	36.4 - 51.5	900	--			23.0 *	7.7 - 38.3	<100	38.6	29.5 - 47.8	400	87.8 *	78.4 - 97.2	400
Prenatal insurance															
Medi-Cal	61.0	53.4 - 68.6	1,200	--			78.6 *	64.0 - 93.2	300	69.0	60.6 - 77.5	700	16.2 *	5.9 - 26.4	<100
Uninsured	--			--			--			--			--		
Private	35.9	28.2 - 43.5	700	--			19.0 *	4.7 - 33.3	<100	25.6	17.6 - 33.6	300	83.8 *	73.6 - 94.1	400
Had any gaps in insurance during pregnancy	9.3	5.0 - 13.6	200	--			--			13.4	6.6 - 20.2	100	--		
Maternal postpartum insurance															
Medi-Cal	53.5	46.0 - 61.0	1,100	--			80.9 *	68.9 - 92.9	300	56.0	46.6 - 65.3	500	12.1 *	3.1 - 21.1	<100
Uninsured	7.5	4.0 - 11.0	100	--			--			10.2	4.3 - 16.1	100	--		
Private	38.5	30.9 - 46.1	800	--			9.5 *	0.5 - 18.6	<100	33.8	25.0 - 42.7	300	85.2 *	75.3 - 95.1	400
Infant health insurance															
Medi-Cal	64.1	56.4 - 71.7	1,200	--			84.4 *	72.3 - 96.5	300	70.7	62.1 - 79.3	700	23.2 *	9.0 - 37.4	100
Uninsured	2.1 *	0.3 - 3.8	<100	--			--			--			--		
Private	33.4	25.7 - 41.0	600	--			--			26.9	18.5 - 35.3	300	74.1	59.3 - 88.8	300
Maternal Demographics															
First live birth	36.0	28.9 - 43.1	700	33.7 *	11.0 - 56.5	<100	33.7	18.0 - 49.5	100	35.9	26.3 - 45.5	400	40.4	22.4 - 58.5	200
Unmarried	46.9	39.5 - 54.3	900	74.3 *	54.2 - 94.4	100	69.3	54.6 - 83.9	300	49.9	40.3 - 59.5	500	12.6 *	3.2 - 22.0	<100
Race/Ethnicity															
White	84.3	79.4 - 89.2	1,600	80.2 *	65.7 - 94.8	100	85.2 *	74.2 - 96.2	300	82.7	75.9 - 89.5	800	--		
Hispanic	10.5	6.7 - 14.3	200	15.0 *	2.1 - 28.0	<100	9.0 *	1.3 - 16.8	<100	12.3	6.2 - 18.4	100	6.1 *	0.5 - 11.7	<100
Asian/Pacific Islander	2.8 *	0.2 - 5.4	<100	--			--			--			--		
Black	--			--			--			--			--		
Born outside the U.S.	6.5	3.1 - 9.9	100	11.2 *	0.3 - 22.2	<100	--			5.6 *	1.5 - 9.8	<100	--		
Speaks non-English language at home	6.8	3.4 - 10.2	100	13.7 *	1.1 - 26.3	<100	--			4.5 *	0.7 - 8.3	<100	11.9 *	0.4 - 23.3	<100
Lives in a high poverty neighborhood†	3.6	1.5 - 5.8	<100	--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	37.6	30.7 - 44.6	700	--			68.2	50.6 - 85.7	200	32.3	23.7 - 40.9	300	--		
101-200%	26.9	20.4 - 33.4	500	--			13.7 *	3.3 - 24.1	<100	36.2	26.8 - 45.5	300	24.6 *	9.7 - 39.4	<100
> 200%	35.5	28.3 - 42.6	600	--			--			31.5	23.0 - 40.1	300	74.0	59.1 - 89.0	300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	55.1	47.3 - 63.0	1,000	44.9	37.0 - 52.7	800
Health Status before Pregnancy									
In good to excellent health	92.9	89.6 - 96.3	1,800	89.3	83.6 - 95.1	900	--		
Chronic conditions									
Diabetes	--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	--			--		
Asthma	8.8	5.4 - 12.2	200	10.5	5.3 - 15.8	100	7.0 *	2.5 - 11.4	<100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	34.1	25.2 - 42.9	400	38.1	26.4 - 49.7	300
Overweight before pregnancy†	26.0	20.1 - 32.0	500	23.1	15.7 - 30.5	200	26.9	17.2 - 36.6	200
Obese before pregnancy†	25.4	18.7 - 32.1	500	32.3	22.4 - 42.2	300	16.3	8.0 - 24.6	100
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	16.7	10.1 - 23.3	200	23.8	12.4 - 35.1	200
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	53.1	43.7 - 62.5	500	47.6	35.6 - 59.5	300
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	18.4	11.2 - 25.6	200	17.1	8.3 - 25.8	100
Nutrition Program Participation									
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	51.7	42.1 - 61.4	500	52.4	40.7 - 64.2	400
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	29.5	21.3 - 37.8	300	27.6	17.2 - 38.1	200
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	6.0 *	0.8 - 11.1	<100	8.4 *	0.4 - 16.3	<100
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	12.6	6.7 - 18.4	100	17.2	7.6 - 26.8	100
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	16.1	9.6 - 22.6	200	7.9 *	1.8 - 13.9	<100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	4.1 *	0.6 - 7.6	<100	8.6 *	0.5 - 16.6	<100
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	9.0	4.2 - 13.8	<100	5.4 *	0.7 - 10.1	<100
Woman or partner lost job	16.3	10.4 - 22.1	300	20.0	11.2 - 28.8	200	10.6 *	3.0 - 18.3	<100
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	17.3	10.3 - 24.3	200	15.6	7.5 - 23.6	100
Became separated or divorced	6.4	3.0 - 9.8	100	2.7 *	0.7 - 4.8	<100	11.0 *	3.4 - 18.6	<100
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			--		
Substance Use									
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	26.6	18.4 - 34.8	300	27.8	16.5 - 39.1	200
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	14.7	7.8 - 21.6	100	9.1 *	2.3 - 15.9	<100
Any smoking, postpartum	18.0	12.1 - 23.8	400	19.7	12.2 - 27.3	200	17.6	7.6 - 27.6	100
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	26.7	17.1 - 36.3	300	20.8	11.5 - 30.1	200
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	6.1 *	2.0 - 10.3	<100	--		
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	12.9	7.1 - 18.7	100	16.0 *	3.1 - 28.8	100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	22.8	15.4 - 30.1	200	28.9	15.6 - 42.3	200
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	19.1	12.3 - 25.9	200	16.9	7.0 - 26.8	100
Postpartum birth control use	79.5	73.6 - 85.4	1,500	84.7	77.6 - 91.8	900	72.6	61.8 - 83.3	600
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	80.9	73.8 - 88.1	800	85.9	78.4 - 93.4	700
Infant always or often shared bed	34.7	27.9 - 41.5	700	33.1	24.4 - 41.9	300	38.2	26.4 - 49.9	300
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	--			--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	82.5	75.9 - 89.1	800	79.1 *	65.8 - 92.3	600
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	88.6	82.2 - 95.0	900	83.2 *	70.3 - 96.0	700
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	62.6	53.7 - 71.5	600	68.6	55.5 - 81.8	500
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	74.9	65.6 - 84.2	600	73.5	58.6 - 88.5	500
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	45.1	34.9 - 55.3	400	51.4	36.4 - 66.3	300

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MIHA Data Snapshot, Shasta County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	65.4	58.5 - 72.2	1,300	64.7	56.0 - 73.3	700	64.0	52.0 - 76.0	500
Initiated prenatal care in 1st trimester	88.3	84.0 - 92.6	1,700	85.5	79.2 - 91.9	900	91.0 *	84.8 - 97.3	800
Received dental care during pregnancy	44.3	36.8 - 51.8	900	45.2	35.6 - 54.8	500	38.5	25.7 - 51.4	300
Received a Tdap vaccine during pregnancy	23.5	17.7 - 29.3	500	25.0	16.8 - 33.3	300	23.7	14.5 - 32.8	200
Received a flu shot during pregnancy	38.5	30.9 - 46.1	700	33.8	24.3 - 43.3	300	41.7	28.8 - 54.6	300
Had a postpartum medical visit	90.0	85.8 - 94.2	1,800	90.6	85.5 - 95.6	900	88.0 *	80.4 - 95.6	700
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	43.5	36.2 - 50.7	900	45.3	35.9 - 54.6	500	42.0	29.7 - 54.3	300
Uninsured	11.3	6.9 - 15.7	200	12.4	6.6 - 18.2	100	11.4 *	3.8 - 18.9	<100
Private	43.9	36.4 - 51.5	900	41.9	32.2 - 51.6	400	44.1	31.2 - 57.1	400
Prenatal insurance									
Medi-Cal	61.0	53.4 - 68.6	1,200	61.1	51.3 - 70.8	600	62.1	49.0 - 75.2	500
Uninsured	--			--			--		
Private	35.9	28.2 - 43.5	700	34.6	24.8 - 44.3	400	35.9	22.8 - 49.1	300
Had any gaps in insurance during pregnancy	9.3	5.0 - 13.6	200	6.8 *	2.3 - 11.3	<100	13.5 *	5.2 - 21.8	100
Maternal postpartum insurance									
Medi-Cal	53.5	46.0 - 61.0	1,100	52.6	43.0 - 62.2	500	56.7	43.8 - 69.7	500
Uninsured	7.5	4.0 - 11.0	100	9.4	3.9 - 14.9	<100	6.0 *	1.3 - 10.8	<100
Private	38.5	30.9 - 46.1	800	38.0	28.3 - 47.7	400	36.1	23.0 - 49.2	300
Infant health insurance									
Medi-Cal	64.1	56.4 - 71.7	1,200	64.4	54.8 - 74.1	600	66.2	52.8 - 79.6	500
Uninsured	2.1 *	0.3 - 3.8	<100	--			--		
Private	33.4	25.7 - 41.0	600	33.3	23.7 - 43.0	300	31.9	18.5 - 45.4	300
Maternal Demographics									
Age									
15-19	4.9 *	1.4 - 8.4	<100	--			--		
20-34	82.3	76.2 - 88.5	1,600	79.0	69.8 - 88.3	800	86.3 *	78.0 - 94.6	700
35+	12.8	7.3 - 18.2	300	18.5	9.5 - 27.5	200	6.8 *	1.7 - 11.9	<100
First live birth	36.0	28.9 - 43.1	700	31.6	22.8 - 40.4	300	40.1	27.9 - 52.4	300
Less than high school education (or GED)	9.1	5.1 - 13.1	200	7.1 *	2.6 - 11.6	<100	12.6 *	5.0 - 20.3	100
Unmarried	46.9	39.5 - 54.3	900	41.3	32.2 - 50.5	400	51.9	39.1 - 64.7	400
Race/Ethnicity									
White	84.3	79.4 - 89.2	1,600	82.6	75.8 - 89.5	800	88.3	81.8 - 94.7	700
Hispanic	10.5	6.7 - 14.3	200	11.5	6.2 - 16.8	100	7.9 *	2.9 - 12.9	<100
Asian/Pacific Islander	2.8 *	0.2 - 5.4	<100	--			--		
Black	--			--			--		
Born outside the U.S.	6.5	3.1 - 9.9	100	9.4 *	3.5 - 15.4	<100	3.6 *	0.6 - 6.6	<100
Speaks non-English language at home	6.8	3.4 - 10.2	100	8.8 *	3.1 - 14.6	<100	5.0 *	1.3 - 8.7	<100
Lives in a high poverty neighborhood†	3.6	1.5 - 5.8	<100	4.9 *	1.6 - 8.2	<100	--		
Income as a percent of the Federal Poverty Guideline									
0-100%	37.6	30.7 - 44.6	700	39.8	30.4 - 49.2	400	36.5	25.2 - 47.9	300
101-200%	26.9	20.4 - 33.4	500	24.9	16.3 - 33.4	200	29.8	19.2 - 40.4	200
> 200%	35.5	28.3 - 42.6	600	35.3	25.6 - 45.1	300	33.7	22.5 - 44.8	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			2,000	37.6	30.7	44.6	700	26.9	20.4	33.4	500	35.5	28.3	42.6	600
Health Status before Pregnancy																
In good to excellent health	92.9	89.6	96.3	1,800	86.7	78.8	94.5	600	--				--			
Chronic conditions																
Diabetes	--				--				--				--			
Hypertension	4.0 *	1.1	7.0	<100	--				--				--			
Asthma	8.8	5.4	12.2	200	12.2	5.7	18.6	<100	6.1 *	0.8	11.4	<100	7.1 *	1.4	12.8	<100
Nutrition and Weight																
Daily folic acid use, month before pregnancy	35.9	29.0	42.7	700	27.6	17.6	37.6	200	33.7	20.0	47.4	200	49.3	36.5	62.1	300
Overweight before pregnancy†	26.0	20.1	32.0	500	29.4	18.7	40.1	200	25.7	14.3	37.1	100	25.1	14.9	35.2	200
Obese before pregnancy†	25.4	18.7	32.1	500	24.8	14.7	35.0	100	32.2	18.4	46.0	200	26.1	13.3	38.9	200
Inadequate weight gain during pregnancy†	18.5	12.6	24.4	300	18.3	8.1	28.6	100	11.1 *	4.3	17.9	<100	16.6	7.8	25.4	<100
Excessive weight gain during pregnancy†	52.5	45.3	59.7	900	57.9	45.7	70.1	300	51.5	37.2	65.8	200	48.6	36.7	60.4	300
Food insecurity during pregnancy	17.5	12.2	22.9	300	37.6	26.2	49.1	300	17.9	8.2	27.7	<100	--			
Nutrition Program Participation																
Participated in WIC during pregnancy	51.8	44.6	59.0	1,000	82.5	74.1	90.9	600	58.4	44.2	72.6	300	10.6 *	3.6	17.7	<100
Received CalFresh (food stamps) during pregnancy	28.3	22.1	34.6	600	65.1	55.0	75.3	400	16.4	7.3	25.6	<100	--			
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6	11.2	100	14.2 *	4.1	24.2	100	--				--			
Prenatal depressive symptoms†	14.6	9.3	19.8	300	26.7	16.4	37.0	200	11.4 *	3.1	19.7	<100	3.7 *	0.4	7.0	<100
Postpartum depressive symptoms†	13.8	9.1	18.5	300	21.8	11.9	31.7	100	13.0 *	4.1	21.9	<100	10.5 *	3.7	17.4	<100
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	5.7 *	1.9	9.6	100	12.9 *	3.8	21.9	<100	--				--			
Moved due to problems paying rent or mortgage	7.4	4.2	10.7	100	17.8	9.4	26.2	100	--				--			
Woman or partner lost job	16.3	10.4	22.1	300	28.4	17.6	39.2	200	11.5 *	3.9	19.1	<100	--			
Woman or partner had pay or hours cut back	16.8	11.6	21.9	300	24.1	14.0	34.1	200	20.9	10.4	31.5	100	6.4 *	0.5	12.2	<100
Became separated or divorced	6.4	3.0	9.8	100	10.3 *	3.7	16.9	<100	--				--			
Had no practical or emotional support	1.0 *	0.1	1.9	<100	--				--				--			
Substance Use																
Any smoking, 3 months before pregnancy	26.0	19.6	32.5	500	49.0	37.7	60.4	300	20.8	10.4	31.1	<100	7.0 *	1.1	12.8	<100
Any smoking, 3rd trimester	11.5	6.9	16.1	200	25.2	14.5	36.0	200	12.1 *	3.7	20.6	<100	--			
Any smoking, postpartum	18.0	12.1	23.8	400	36.3	25.0	47.6	200	13.6 *	4.7	22.5	<100	--			
Any binge drinking, 3 months before pregnancy	23.2	16.7	29.7	400	32.7	21.6	43.8	200	14.2 *	3.9	24.5	<100	27.0	13.9	40.0	200
Any alcohol use, 3rd trimester	3.9 *	1.3	6.5	<100	--				--				--			
Any cannabis use during pregnancy	13.7	7.3	20.0	300	23.1	13.4	32.8	200	7.8 *	1.5	14.1	<100	--			
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	24.5	17.5	31.5	500	33.7	23.1	44.3	200	14.6 *	5.4	23.8	<100	18.6	8.9	28.4	100
Unsure of pregnancy intentions	18.5	12.8	24.2	400	30.7	19.9	41.4	200	15.3 *	5.7	24.9	<100	6.2 *	0.9	11.5	<100
Postpartum birth control use	79.5	73.6	85.4	1,500	74.6	64.5	84.7	500	77.4 *	63.9	90.8	400	82.9	73.5	92.2	500
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	83.5	78.5	88.4	1,600	75.5	65.3	85.7	500	85.3 *	76.4	94.3	400	87.7	80.5	94.9	500
Infant always or often shared bed	34.7	27.9	41.5	700	44.9	33.6	56.2	300	47.5	33.4	61.6	200	20.4	11.2	29.7	100
Intended to breastfeed, before birth	93.7 *	87.7	99.7	1,800	95.7 *	92.0	99.4	600	--				--			
Intended to breastfeed exclusively, before birth	80.7	73.9	87.5	1,500	80.5	72.3	88.7	500	83.1 *	72.0	94.2	400	84.9	76.1	93.7	500
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	85.9	79.3	92.5	1,600	82.0	72.8	91.3	500	94.7 *	90.4	99.0	400	91.1 *	84.0	98.2	500
Exclusive breastfeeding, 1 month after delivery	65.3	57.9	72.7	1,200	60.3	49.1	71.6	400	74.8	63.5	86.1	400	67.6	56.2	78.9	400
Any breastfeeding, 3 months after delivery	74.4	66.3	82.5	1,200	67.6	55.9	79.3	400	82.9 *	72.4	93.5	300	84.4 *	74.3	94.4	400
Exclusive breastfeeding, 3 months after delivery	47.6	39.2	56.0	700	43.0	30.3	55.6	200	50.9	35.2	66.5	200	49.1	35.2	63.0	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	65.4	58.5	72.2	1,300	70.3	60.5	80.1	500	60.7	47.3	74.2	300	64.1	51.8	76.4	400
Initiated prenatal care in 1st trimester	88.3	84.0	92.6	1,700	83.7	75.6	91.7	600	88.6 *	79.1	98.2	400	90.0 *	83.4	96.7	600
Received dental care during pregnancy	44.3	36.8	51.8	900	28.4	18.3	38.5	200	42.9	29.1	56.7	200	59.7	47.4	72.1	400
Received a Tdap vaccine during pregnancy	23.5	17.7	29.3	500	28.4	18.2	38.6	200	27.6	14.6	40.5	100	20.0	10.8	29.3	100
Received a flu shot during pregnancy	38.5	30.9	46.1	700	33.7	23.1	44.4	200	31.7	19.2	44.3	200	46.1	33.1	59.1	300
Had a postpartum medical visit	90.0	85.8	94.2	1,800	85.5	77.8	93.3	600	93.1 *	87.2	98.9	400	90.2 *	81.5	98.8	600
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	43.5	36.2	50.7	900	91.6 *	86.4	96.7	600	28.0	16.6	39.3	100	6.7 *	0.8	12.5	<100
Uninsured	11.3	6.9	15.7	200	3.4 *	0.4	6.4	<100	32.1	18.4	45.8	200	--			
Private	43.9	36.4	51.5	900	4.1 *	0.2	8.0	<100	39.9	26.0	53.9	200	88.3 *	81.2	95.3	600
Prenatal insurance																
Medi-Cal	61.0	53.4	68.6	1,200	--				75.9	63.0	88.8	400	14.8	6.3	23.3	<100
Uninsured	--				--				--				--			
Private	35.9	28.2	43.5	700	--				19.4 *	7.1	31.7	<100	80.4	71.1	89.6	500
Had any gaps in insurance during pregnancy	9.3	5.0	13.6	200	9.5 *	1.3	17.7	<100	18.6 *	7.2	30.0	<100	3.9 *	0.3	7.6	<100
Maternal postpartum insurance																
Medi-Cal	53.5	46.0	61.0	1,100	93.0 *	87.9	98.0	600	52.9	38.8	67.0	300	15.0 *	5.7	24.3	<100
Uninsured	7.5	4.0	11.0	100	--				11.4 *	2.2	20.7	<100	7.1 *	1.4	12.7	<100
Private	38.5	30.9	46.1	800	--				35.7	21.7	49.6	200	78.0	67.6	88.3	500
Infant health insurance																
Medi-Cal	64.1	56.4	71.7	1,200	--				84.8 *	74.3	95.3	400	18.3	9.3	27.2	100
Uninsured	2.1 *	0.3	3.8	<100	--				--				--			
Private	33.4	25.7	41.0	600	--				14.8 *	4.3	25.3	<100	77.6	67.8	87.4	500
Maternal Demographics																
First live birth	36.0	28.9	43.1	700	29.1	18.3	39.9	200	33.5	19.3	47.8	200	40.4	28.2	52.7	300
Less than high school education (or GED)	9.1	5.1	13.1	200	22.1	12.4	31.8	100	--				--			
Unmarried	46.9	39.5	54.3	900	75.6	66.2	85.0	500	36.7	23.5	49.9	200	25.4	14.5	36.3	200
Race/Ethnicity																
White	84.3	79.4	89.2	1,600	79.6	71.1	88.1	500	78.5	66.3	90.8	400	91.8 *	86.1	97.6	600
Hispanic	10.5	6.7	14.3	200	16.1	8.6	23.5	100	14.3 *	4.7	23.8	<100	--			
Asian/Pacific Islander	2.8 *	0.2	5.4	<100	--				--				--			
Black	--				--				--				--			
Born outside the U.S.	6.5	3.1	9.9	100	6.2 *	1.2	11.1	<100	--				6.3 *	1.5	11.1	<100
Speaks non-English language at home	6.8	3.4	10.2	100	8.9 *	3.2	14.6	<100	--				4.1 *	0.3	7.9	<100
Lives in a high poverty neighborhood†	3.6	1.5	5.8	<100	7.3 *	2.4	12.3	<100	--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Shasta County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Low: <10% of Residents Below Poverty†			Moderate-Low: 10-19% of Residents Below Poverty†			Moderate-High: 20-29% of Residents Below Poverty†			High: ≥30% of Residents Below Poverty†		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	12.9	8.2 - 17.7	200	56.3	48.9 - 63.7	1,000	27.2	20.9 - 33.4	500	3.6	1.5 - 5.8	<100
Health Status before Pregnancy															
In good to excellent health	92.9	89.6 - 96.3	1,800	--			92.7 *	88.0 - 97.3	1,000	91.7 *	84.3 - 99.2	500	--		
Chronic conditions															
Diabetes	--			--			--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	--			--			--			--		
Asthma	8.8	5.4 - 12.2	200	--			9.4	4.3 - 14.4	<100	5.0 *	0.9 - 9.1	<100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	50.3	31.0 - 69.6	100	38.9	28.4 - 49.4	400	20.1	11.2 - 29.1	100	54.3 *	25.4 - 83.3	<100
Overweight before pregnancy†	26.0	20.1 - 32.0	500	27.3 *	8.1 - 46.5	<100	24.1	16.4 - 31.8	200	24.0	13.0 - 35.0	100	--		
Obese before pregnancy†	25.4	18.7 - 32.1	500	21.3 *	5.3 - 37.4	<100	22.3	12.6 - 32.0	200	33.4	20.3 - 46.6	200	--		
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	16.8 *	2.8 - 30.8	<100	18.2	9.2 - 27.2	200	22.1	11.4 - 32.8	<100	37.0 *	6.7 - 67.3	<100
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	40.0	20.6 - 59.4	<100	51.8	41.5 - 62.2	500	53.1	39.4 - 66.8	200	52.2 *	20.7 - 83.8	<100
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	--			11.6	5.4 - 17.9	100	35.8	22.8 - 48.8	200	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	35.4	17.1 - 53.7	<100	47.3	36.7 - 57.9	500	65.8	53.7 - 77.9	300	72.1 *	46.6 - 97.7	<100
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	17.9 *	4.7 - 31.1	<100	18.0	10.3 - 25.6	200	50.4	37.5 - 63.2	300	70.1 *	45.3 - 94.8	<100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	--			--			11.2 *	1.9 - 20.5	<100	--		
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	--			15.5	7.5 - 23.6	200	16.5	6.8 - 26.3	<100	--		
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	11.8 *	1.4 - 22.2	<100	9.2 *	3.6 - 14.8	<100	18.2	8.2 - 28.2	<100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	--			--			12.2 *	2.5 - 21.9	<100	--		
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	--			6.2 *	2.0 - 10.3	<100	14.5 *	5.7 - 23.3	<100	--		
Woman or partner lost job	16.3	10.4 - 22.1	300	--			14.7 *	5.7 - 23.7	200	18.7	7.7 - 29.7	<100	59.0 *	29.8 - 88.3	<100
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	--			11.6	5.9 - 17.3	100	27.8	15.4 - 40.1	100	--		
Became separated or divorced	6.4	3.0 - 9.8	100	--			6.2 *	1.6 - 10.8	<100	5.4 *	1.1 - 9.8	<100	--		
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	20.5 *	6.1 - 34.9	<100	26.1	16.5 - 35.6	300	31.7	18.8 - 44.5	200	--		
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	--			11.0 *	4.5 - 17.5	100	18.9	7.9 - 30.0	<100	--		
Any smoking, postpartum	18.0	12.1 - 23.8	400	--			19.7	10.8 - 28.7	200	21.2	10.1 - 32.3	100	--		
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	23.6 *	7.0 - 40.3	<100	27.2	16.9 - 37.5	300	18.2	7.7 - 28.8	<100	--		
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	--			4.9 *	0.6 - 9.1	<100	--			--		
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	--			15.7 *	5.2 - 26.2	200	16.1 *	6.0 - 26.2	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	30.3 *	11.6 - 49.0	<100	25.2	14.2 - 36.1	300	24.7	13.7 - 35.7	100	--		
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	11.8 *	1.9 - 21.7	<100	13.3 *	5.4 - 21.2	100	26.9	15.5 - 38.4	100	48.0 *	18.6 - 77.4	<100
Postpartum birth control use	79.5	73.6 - 85.4	1,500	69.2 *	49.4 - 89.1	200	81.4	73.4 - 89.5	800	78.1	66.8 - 89.3	400	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	78.8 *	64.3 - 93.3	200	87.7	81.4 - 94.0	900	75.0	63.4 - 86.5	400	--		
Infant always or often shared bed	34.7	27.9 - 41.5	700	19.6 *	4.9 - 34.2	<100	34.9	25.0 - 44.8	400	43.3	30.1 - 56.5	200	38.6 *	9.4 - 67.7	<100
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	--			--			--			--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	71.7 *	54.1 - 89.3	200	83.7 *	73.2 - 94.2	900	79.4	68.5 - 90.2	400	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	--			86.5 *	76.1 - 96.9	900	83.3 *	72.5 - 94.1	400	--		
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	58.8	40.4 - 77.1	100	67.3	56.0 - 78.6	700	65.4	52.7 - 78.0	300	58.0 *	29.4 - 86.6	<100
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	68.3 *	48.5 - 88.2	100	76.9	64.0 - 89.8	600	71.1	57.8 - 84.4	300	--		
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	47.5	27.2 - 67.8	<100	55.3	42.0 - 68.5	400	34.9	21.9 - 47.9	100	--		

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MIHA Data Snapshot, Shasta County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	65.4	58.5	72.2	1,300	76.0 *	57.2	94.9	200	61.4	51.0	71.9	600	66.7	54.6	78.9	300	50.6 *	21.3	80.0	<100
Initiated prenatal care in 1st trimester	88.3	84.0	92.6	1,700	84.6 *	70.6	98.5	200	91.2 *	85.9	96.4	900	84.1 *	74.4	93.8	400	--			
Received dental care during pregnancy	44.3	36.8	51.8	900	35.9	18.1	53.7	<100	47.9	36.5	59.3	500	34.2	22.3	46.0	200	--			
Received a Tdap vaccine during pregnancy	23.5	17.7	29.3	500	17.4 *	5.0	29.7	<100	26.1	17.3	34.8	300	21.0	9.7	32.2	100	49.3 *	19.9	78.7	<100
Received a flu shot during pregnancy	38.5	30.9	46.1	700	34.5	17.2	51.7	<100	39.0	27.2	50.8	400	36.7	24.1	49.4	200	--			
Had a postpartum medical visit	90.0	85.8	94.2	1,800	--				93.5 *	88.9	98.2	1,000	84.4 *	75.0	93.7	400	--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	43.5	36.2	50.7	900	33.8	16.2	51.4	<100	35.7	25.4	46.0	400	59.6	47.0	72.2	300	--			
Uninsured	11.3	6.9	15.7	200	--				12.8	6.5	19.1	100	14.4 *	3.8	25.1	<100	--			
Private	43.9	36.4	51.5	900	54.5	35.6	73.5	100	51.5	40.3	62.7	500	23.8	14.0	33.7	100	--			
Prenatal insurance																				
Medi-Cal	61.0	53.4	68.6	1,200	47.3	28.0	66.5	100	52.9	41.4	64.4	600	82.4	73.9	91.0	400	--			
Uninsured	--				--				--				--				--			
Private	35.9	28.2	43.5	700	46.7	27.3	66.1	100	43.2	31.5	54.9	500	16.3	8.0	24.7	<100	--			
Had any gaps in insurance during pregnancy	9.3	5.0	13.6	200	--				9.8	4.1	15.5	100	15.6 *	4.3	26.9	<100	--			
Maternal postpartum insurance																				
Medi-Cal	53.5	46.0	61.0	1,100	46.1	26.6	65.6	100	46.1	35.1	57.2	500	71.0	59.6	82.4	400	--			
Uninsured	7.5	4.0	11.0	100	--				6.7 *	2.5	11.0	<100	11.9 *	2.7	21.0	<100	--			
Private	38.5	30.9	46.1	800	44.2	25.3	63.0	100	47.1	35.7	58.6	500	16.9	8.5	25.3	<100	--			
Infant health insurance																				
Medi-Cal	64.1	56.4	71.7	1,200	48.0	28.9	67.1	100	58.8	47.1	70.4	600	83.8	75.2	92.4	400	--			
Uninsured	2.1 *	0.3	3.8	<100	--				--				--				--			
Private	33.4	25.7	41.0	600	41.4	22.9	59.9	<100	40.2	28.5	51.9	400	15.5	7.0	24.0	<100	--			
Maternal Demographics																				
Age																				
15-19	4.9 *	1.4	8.4	<100	--				--				--				--			
20-34	82.3	76.2	88.5	1,600	84.3 *	70.4	98.1	200	83.1	73.9	92.3	900	78.1	66.1	90.1	400	--			
35+	12.8	7.3	18.2	300	15.7 *	1.9	29.6	<100	13.7 *	5.1	22.3	100	12.3 *	3.2	21.4	<100	--			
First live birth	36.0	28.9	43.1	700	18.5 *	4.4	32.6	<100	40.3	29.4	51.1	400	35.5	22.7	48.3	200	--			
Less than high school education (or GED)	9.1	5.1	13.1	200	--				7.7 *	2.4	12.9	<100	12.2 *	2.9	21.5	<100	--			
Unmarried	46.9	39.5	54.3	900	50.6	31.4	69.9	100	37.4	27.0	47.9	400	59.9	47.0	72.8	300	64.6 *	37.3	92.0	<100
Race/Ethnicity																				
White	84.3	79.4	89.2	1,600	--				88.8	82.4	95.1	900	75.3	65.0	85.7	400	--			
Hispanic	10.5	6.7	14.3	200	--				6.1	2.7	9.6	<100	18.0	8.4	27.6	<100	--			
Asian/Pacific Islander	2.8 *	0.2	5.4	<100	--				--				3.7 *	0.3	7.0	<100	--			
Black	--				--				--				--				--			
Born outside the U.S.	6.5	3.1	9.9	100	--				7.2 *	1.7	12.6	<100	7.1 *	1.3	12.9	<100	--			
Speaks non-English language at home	6.8	3.4	10.2	100	--				6.7 *	1.4	12.1	<100	10.4 *	3.5	17.2	<100	--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	37.6	30.7	44.6	700	18.5 *	4.6	32.3	<100	28.0	18.7	37.4	300	61.9	49.2	74.5	300	69.7 *	41.8	97.7	<100
101-200%	26.9	20.4	33.4	500	18.2 *	2.0	34.3	<100	29.4	19.8	39.1	300	27.2	15.2	39.2	100	--			
> 200%	35.5	28.3	42.6	600	63.4	44.2	82.5	100	42.6	31.7	53.4	400	10.9 *	4.3	17.6	<100	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	61.0	53.4 - 68.6	1,200	35.9	28.2 - 43.5	700
Health Status before Pregnancy									
In good to excellent health	92.9	89.6 - 96.3	1,800	91.0	86.2 - 95.8	1,100	--		
Chronic conditions									
Diabetes	--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	5.5 *	1.0 - 10.0	<100	--		
Asthma	8.8	5.4 - 12.2	200	9.9	5.4 - 14.5	100	7.6 *	2.1 - 13.2	<100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	28.5	20.8 - 36.2	300	49.3	35.1 - 63.5	300
Overweight before pregnancy†	26.0	20.1 - 32.0	500	26.3	18.8 - 33.8	300	24.0	13.9 - 34.0	200
Obese before pregnancy†	25.4	18.7 - 32.1	500	27.0	18.9 - 35.0	300	23.1	10.5 - 35.7	100
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	18.4	10.5 - 26.4	200	19.6	10.2 - 28.9	100
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	54.1	44.8 - 63.4	600	51.3	39.2 - 63.5	300
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	27.6	19.7 - 35.6	300	--		
Nutrition Program Participation									
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	73.8	66.0 - 81.6	900	12.0 *	3.0 - 21.1	<100
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	45.8	37.2 - 54.5	600	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	10.7 *	4.0 - 17.4	100	--		
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	21.1	13.2 - 29.0	300	3.7 *	0.4 - 7.0	<100
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	17.9	11.1 - 24.7	200	8.2 *	2.6 - 13.8	<100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	7.6 *	2.3 - 12.8	<100	--		
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	12.2	7.0 - 17.4	100	--		
Woman or partner lost job	16.3	10.4 - 22.1	300	22.3	15.1 - 29.6	300	--		
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	24.3	16.8 - 31.7	300	4.7 *	0.4 - 9.1	<100
Became separated or divorced	6.4	3.0 - 9.8	100	6.9	3.0 - 10.9	<100	--		
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			--		
Substance Use									
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	39.0	30.2 - 47.8	500	4.7 *	0.5 - 8.9	<100
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	18.2	11.1 - 25.3	200	--		
Any smoking, postpartum	18.0	12.1 - 23.8	400	27.6	19.1 - 36.0	300	--		
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	24.5	16.8 - 32.1	300	22.1	9.4 - 34.8	100
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	4.2 *	0.5 - 7.8	<100	--		
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	16.3	10.1 - 22.6	200	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	23.4	16.2 - 30.7	300	24.9 *	10.1 - 39.6	200
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	27.5	19.2 - 35.7	300	--		
Postpartum birth control use	79.5	73.6 - 85.4	1,500	78.0	70.6 - 85.5	900	82.1	71.8 - 92.5	600
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	79.6	72.6 - 86.6	900	89.6	83.5 - 95.7	600
Infant always or often shared bed	34.7	27.9 - 41.5	700	43.0	34.4 - 51.7	500	22.6	12.0 - 33.3	200
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	95.7 *	92.0 - 99.5	1,100	--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	83.6	77.3 - 89.9	1,000	75.9 *	61.0 - 90.8	500
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	84.7	78.4 - 91.0	1,000	--		
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	65.7	57.5 - 73.9	800	64.2	49.1 - 79.3	400
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	71.6	63.0 - 80.1	700	76.9 *	58.5 - 95.4	400
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	45.0	35.0 - 54.9	400	49.5	32.6 - 66.3	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	65.4	58.5	72.2	1,300	61.3	52.7	69.8	700	73.8	62.5	85.1	500
Initiated prenatal care in 1st trimester	88.3	84.0	92.6	1,700	87.2	81.3	93.0	1,000	95.0 *	90.8	99.2	700
Received dental care during pregnancy	44.3	36.8	51.8	900	34.0	26.0	42.1	400	64.5	51.8	77.2	500
Received a Tdap vaccine during pregnancy	23.5	17.7	29.3	500	24.7	17.4	32.0	300	19.1	9.3	28.8	100
Received a flu shot during pregnancy	38.5	30.9	46.1	700	33.8	25.8	41.9	400	47.1	32.4	61.8	300
Had a postpartum medical visit	90.0	85.8	94.2	1,800	90.3	85.6	95.0	1,100	89.1 *	80.6	97.5	600
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	43.5	36.2	50.7	900	70.4	62.4	78.4	800	--			
Uninsured	11.3	6.9	15.7	200	16.5	9.9	23.1	200	--			
Private	43.9	36.4	51.5	900	13.0	7.3	18.7	200	--			
Had any gaps in insurance during pregnancy	9.3	5.0	13.6	200	12.4	6.1	18.7	100	--			
Maternal postpartum insurance												
Medi-Cal	53.5	46.0	61.0	1,100	81.4	74.7	88.2	1,000	7.5 *	0.2	14.8	<100
Uninsured	7.5	4.0	11.0	100	8.0 *	3.2	12.7	<100	--			
Private	38.5	30.9	46.1	800	10.5	5.2	15.8	100	88.6 *	80.3	96.8	600
Infant health insurance												
Medi-Cal	64.1	56.4	71.7	1,200	94.5 *	90.2	98.9	1,100	11.4 *	2.9	20.0	<100
Uninsured	2.1 *	0.3	3.8	<100	--				--			
Private	33.4	25.7	41.0	600	--				86.9 *	78.1	95.8	600
Maternal Demographics												
Age												
15-19	4.9 *	1.4	8.4	<100	7.6 *	2.1	13.1	<100	--			
20-34	82.3	76.2	88.5	1,600	82.9	75.8	90.0	1,000	81.0 *	69.1	93.0	600
35+	12.8	7.3	18.2	300	9.5	4.4	14.6	100	18.2 *	6.3	30.1	100
First live birth	36.0	28.9	43.1	700	35.7	26.9	44.5	400	37.9	25.0	50.9	300
Less than high school education (or GED)	9.1	5.1	13.1	200	13.6	7.6	19.5	200	--			
Unmarried	46.9	39.5	54.3	900	64.8	56.5	73.1	800	18.3	8.8	27.9	100
Race/Ethnicity												
White	84.3	79.4	89.2	1,600	81.1	74.8	87.3	1,000	91.9 *	84.4	99.5	600
Hispanic	10.5	6.7	14.3	200	14.4	8.8	20.0	200	--			
Asian/Pacific Islander	2.8 *	0.2	5.4	<100	1.4 *	0.1	2.7	<100	--			
Black	--				--				--			
Born outside the U.S.	6.5	3.1	9.9	100	4.5 *	1.4	7.5	<100	--			
Speaks non-English language at home	6.8	3.4	10.2	100	6.3	2.8	9.8	<100	--			
Lives in a high poverty neighborhood†	3.6	1.5	5.8	<100	5.2 *	2.0	8.5	<100	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	37.6	30.7	44.6	700	58.7	49.9	67.5	600	--			
101-200%	26.9	20.4	33.4	500	32.9	24.5	41.3	400	15.1 *	5.1	25.1	<100
> 200%	35.5	28.3	42.6	600	8.5	3.5	13.4	<100	82.3	72.0	92.5	500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Shasta County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	10.5	6.7 - 14.3	200	--			84.3	79.4 - 89.2	1,600	2.8 *	0.2 - 5.4	<100
Health Status before Pregnancy															
In good to excellent health	92.9	89.6 - 96.3	1,800	--			--			91.7	87.6 - 95.7	1,500	--		
Chronic conditions															
Diabetes	--			--			--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	--			--			4.6 *	1.1 - 8.1	<100	--		
Asthma	8.8	5.4 - 12.2	200	8.9 *	0.7 - 17.2	<100	--			8.9	5.0 - 12.7	100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	29.5	13.1 - 45.9	<100	--			35.3	27.8 - 42.8	600	--		
Overweight before pregnancy†	26.0	20.1 - 32.0	500	38.5	19.1 - 58.0	<100	--			25.5	19.0 - 31.9	400	--		
Obese before pregnancy†	25.4	18.7 - 32.1	500	26.5	11.5 - 41.6	<100	--			26.4	18.8 - 34.0	400	--		
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	16.4 *	4.5 - 28.3	<100	--			15.8	10.1 - 21.5	200	--		
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	63.5	44.9 - 82.2	100	--			53.1	45.4 - 60.9	700	--		
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	31.7	14.4 - 49.0	<100	--			16.2	10.4 - 22.0	300	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	68.3	51.7 - 84.8	100	--			47.8	39.9 - 55.7	700	--		
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	34.1	16.8 - 51.4	<100	--			27.4	20.4 - 34.3	400	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	--			--			7.7 *	2.7 - 12.7	100	--		
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	--			--			13.1	8.2 - 18.1	200	--		
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	18.8 *	1.7 - 35.9	<100	--			13.8	8.7 - 18.9	200	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	--			--			6.7 *	2.0 - 11.3	100	--		
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	--			--			7.0	3.4 - 10.6	100	--		
Woman or partner lost job	16.3	10.4 - 22.1	300	15.3 *	3.7 - 26.8	<100	--			16.4	9.7 - 23.1	300	--		
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	--			--			18.1	12.3 - 24.0	300	--		
Became separated or divorced	6.4	3.0 - 9.8	100	--			--			6.6 *	2.6 - 10.6	100	--		
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			--			--			--		
Often experienced racism over her lifetime	5.6	2.7 - 8.5	100	20.4 *	6.1 - 34.7	<100	--			2.7 *	0.5 - 4.9	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	17.0 *	4.8 - 29.3	<100	--			27.0	20.0 - 34.1	400	--		
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	--			--			12.3	6.9 - 17.6	200	--		
Any smoking, postpartum	18.0	12.1 - 23.8	400	16.3 *	2.5 - 30.2	<100	--			17.3	11.3 - 23.3	300	--		
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	16.2 *	2.8 - 29.6	<100	--			24.4	16.9 - 31.9	400	--		
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	--			--			4.5 *	1.3 - 7.6	<100	--		
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	--			--			14.3	6.9 - 21.8	200	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	20.7 *	7.1 - 34.4	<100	--			26.4	18.3 - 34.6	400	--		
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	34.2	15.6 - 52.8	<100	--			15.1	9.6 - 20.5	200	--		
Postpartum birth control use	79.5	73.6 - 85.4	1,500	80.9 *	65.0 - 96.8	200	--			79.6	73.1 - 86.0	1,300	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	80.5 *	65.4 - 95.6	200	--			83.3	77.7 - 88.9	1,300	--		
Infant always or often shared bed	34.7	27.9 - 41.5	700	39.4	21.0 - 57.8	<100	--			34.5	27.0 - 42.0	500	--		
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	--			--			--			--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	54.8	36.2 - 73.4	100	--			83.4	75.7 - 91.2	1,300	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	79.1 *	62.9 - 95.3	200	--			86.1	78.4 - 93.8	1,300	--		
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	41.9	23.3 - 60.6	<100	--			66.4	58.1 - 74.8	1,000	--		
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	62.8	43.3 - 82.3	100	--			73.8	64.3 - 83.4	900	--		
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	23.6 *	7.7 - 39.5	<100	--			47.4	38.1 - 56.8	600	--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	65.4	58.5 - 72.2	1,300	72.0	55.7 - 88.3	100	--			64.7	57.2 - 72.2	1,100	--		
Initiated prenatal care in 1st trimester	88.3	84.0 - 92.6	1,700	84.6 *	71.6 - 97.5	200	--			88.7	84.0 - 93.5	1,400	--		
Received dental care during pregnancy	44.3	36.8 - 51.8	900	31.2	13.7 - 48.7	<100	--			47.3	39.0 - 55.6	800	--		
Received a Tdap vaccine during pregnancy	23.5	17.7 - 29.3	500	24.6 *	9.8 - 39.5	<100	--			23.5	17.2 - 29.9	400	--		
Received a flu shot during pregnancy	38.5	30.9 - 46.1	700	43.9	25.3 - 62.5	<100	--			40.0	31.5 - 48.5	600	--		
Had a postpartum medical visit	90.0	85.8 - 94.2	1,800	--			--			89.4	84.6 - 94.2	1,400	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	43.5	36.2 - 50.7	900	58.7	40.0 - 77.4	100	--			40.6	32.7 - 48.4	700	--		
Uninsured	11.3	6.9 - 15.7	200	--			--			11.5	6.5 - 16.5	200	--		
Private	43.9	36.4 - 51.5	900	26.8 *	9.7 - 43.9	<100	--			46.4	38.0 - 54.8	800	--		
Prenatal insurance															
Medi-Cal	61.0	53.4 - 68.6	1,200	84.4 *	70.8 - 98.0	200	--			58.5	50.0 - 66.9	1,000	--		
Uninsured	--			--			--			--			--		
Private	35.9	28.2 - 43.5	700	--			--			39.2	30.7 - 47.6	600	--		
Had any gaps in insurance during pregnancy	9.3	5.0 - 13.6	200	--			--			8.6	4.0 - 13.2	100	--		
Maternal postpartum insurance															
Medi-Cal	53.5	46.0 - 61.0	1,100	67.6	49.0 - 86.2	100	--			51.4	43.1 - 59.7	800	--		
Uninsured	7.5	4.0 - 11.0	100	--			--			7.1	3.3 - 10.9	100	--		
Private	38.5	30.9 - 46.1	800	19.8 *	3.7 - 35.9	<100	--			40.9	32.5 - 49.4	700	--		
Infant health insurance															
Medi-Cal	64.1	56.4 - 71.7	1,200	--			--			59.3	50.7 - 67.9	900	--		
Uninsured	2.1 *	0.3 - 3.8	<100	--			--			2.5 *	0.4 - 4.6	<100	--		
Private	33.4	25.7 - 41.0	600	--			--			37.6	29.0 - 46.3	600	--		
Maternal Demographics															
Age															
15-19	4.9 *	1.4 - 8.4	<100	--			--			4.9 *	1.0 - 8.9	<100	--		
20-34	82.3	76.2 - 88.5	1,600	72.8 *	55.9 - 89.6	100	--			82.1	75.0 - 89.2	1,300	--		
35+	12.8	7.3 - 18.2	300	18.8 *	4.5 - 33.1	<100	--			13.0	6.7 - 19.3	200	--		
First live birth	36.0	28.9 - 43.1	700	35.0	16.1 - 53.9	<100	--			33.8	26.3 - 41.3	600	--		
Less than high school education (or GED)	9.1	5.1 - 13.1	200	13.3 *	2.2 - 24.4	<100	--			8.9	4.3 - 13.5	100	--		
Unmarried	46.9	39.5 - 54.3	900	54.9	36.5 - 73.4	100	--			45.2	37.1 - 53.3	700	--		
Born outside the U.S.	6.5	3.1 - 9.9	100	30.7	13.8 - 47.6	<100	--			2.1 *	0.3 - 3.9	<100	--		
Speaks non-English language at home	6.8	3.4 - 10.2	100	35.1	17.6 - 52.7	<100	--			1.9 *	0.2 - 3.6	<100	--		
Lives in a high poverty neighborhood†	3.6	1.5 - 5.8	<100	--			--			3.6 *	1.2 - 6.1	<100	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	37.6	30.7 - 44.6	700	54.2	35.1 - 73.3	100	--			36.2	28.5 - 43.8	500	--		
101-200%	26.9	20.4 - 33.4	500	34.5	15.6 - 53.5	<100	--			25.5	18.6 - 32.4	400	--		
> 200%	35.5	28.3 - 42.6	600	11.3 *	0.4 - 22.1	<100	--			38.3	30.3 - 46.3	600	--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Shasta County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,000	36.0	28.9 - 43.1	700	64.0	56.9 - 71.1	1,300
Health Status before Pregnancy									
In good to excellent health	92.9	89.6 - 96.3	1,800	--			91.4	86.8 - 96.0	1,100
Chronic conditions									
Diabetes	--			--			--		
Hypertension	4.0 *	1.1 - 7.0	<100	--			4.8 *	1.2 - 8.3	<100
Asthma	8.8	5.4 - 12.2	200	7.2 *	2.2 - 12.3	<100	9.7	5.2 - 14.1	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	35.9	29.0 - 42.7	700	40.6	28.7 - 52.4	300	33.2	24.9 - 41.5	400
Overweight before pregnancy†	26.0	20.1 - 32.0	500	22.3	13.2 - 31.4	200	28.4	20.6 - 36.2	300
Obese before pregnancy†	25.4	18.7 - 32.1	500	21.1	11.6 - 30.5	100	28.1	19.2 - 37.1	300
Inadequate weight gain during pregnancy†	18.5	12.6 - 24.4	300	20.4	9.1 - 31.7	100	17.2	10.9 - 23.6	200
Excessive weight gain during pregnancy†	52.5	45.3 - 59.7	900	60.1	47.7 - 72.6	400	47.6	38.9 - 56.3	500
Food insecurity during pregnancy	17.5	12.2 - 22.9	300	19.8	10.1 - 29.6	100	16.2	10.0 - 22.4	200
Nutrition Program Participation									
Participated in WIC during pregnancy	51.8	44.6 - 59.0	1,000	55.7	43.5 - 67.9	400	49.5	40.8 - 58.3	600
Received CalFresh (food stamps) during pregnancy	28.3	22.1 - 34.6	600	23.4	13.1 - 33.6	200	31.2	23.2 - 39.2	400
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.9 *	2.6 - 11.2	100	9.8 *	0.7 - 19.0	<100	5.2 *	1.0 - 9.5	<100
Prenatal depressive symptoms†	14.6	9.3 - 19.8	300	17.4 *	6.7 - 28.2	100	13.0	7.5 - 18.4	200
Postpartum depressive symptoms†	13.8	9.1 - 18.5	300	18.6	9.7 - 27.6	100	11.0	5.8 - 16.2	100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	5.7 *	1.9 - 9.6	100	--			5.0 *	0.8 - 9.3	<100
Moved due to problems paying rent or mortgage	7.4	4.2 - 10.7	100	7.8 *	2.6 - 13.0	<100	7.2	3.0 - 11.5	<100
Woman or partner lost job	16.3	10.4 - 22.1	300	13.6 *	4.9 - 22.2	<100	17.7	10.0 - 25.5	200
Woman or partner had pay or hours cut back	16.8	11.6 - 21.9	300	15.9	7.3 - 24.4	100	17.2	10.9 - 23.6	200
Became separated or divorced	6.4	3.0 - 9.8	100	4.2 *	0.2 - 8.3	<100	7.6 *	2.8 - 12.4	<100
Had no practical or emotional support	1.0 *	0.1 - 1.9	<100	--			1.6 *	0.2 - 3.0	<100
Substance Use									
Any smoking, 3 months before pregnancy	26.0	19.6 - 32.5	500	29.7	17.8 - 41.5	200	24.0	16.5 - 31.4	300
Any smoking, 3rd trimester	11.5	6.9 - 16.1	200	12.9 *	4.7 - 21.1	<100	10.7	5.1 - 16.2	100
Any smoking, postpartum	18.0	12.1 - 23.8	400	21.2	10.1 - 32.4	200	16.1	9.6 - 22.5	200
Any binge drinking, 3 months before pregnancy	23.2	16.7 - 29.7	400	23.1	13.2 - 32.9	200	23.3	14.7 - 31.9	300
Any alcohol use, 3rd trimester	3.9 *	1.3 - 6.5	<100	--			4.2 *	0.6 - 7.9	<100
Any cannabis use during pregnancy	13.7	7.3 - 20.0	300	10.5 *	3.0 - 18.0	<100	15.5	6.6 - 24.3	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	24.5	17.5 - 31.5	500	24.3	14.1 - 34.6	200	24.6	15.3 - 33.8	300
Unsure of pregnancy intentions	18.5	12.8 - 24.2	400	15.7 *	5.0 - 26.3	100	20.0	13.3 - 26.7	300
Postpartum birth control use	79.5	73.6 - 85.4	1,500	75.5	64.7 - 86.3	500	81.8	75.1 - 88.6	1,000
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.5	78.5 - 88.4	1,600	90.9 *	84.6 - 97.3	600	79.2	72.3 - 86.1	1,000
Infant always or often shared bed	34.7	27.9 - 41.5	700	33.2	21.3 - 45.0	200	35.5	27.1 - 43.9	400
Intended to breastfeed, before birth	93.7 *	87.7 - 99.7	1,800	--			--		
Intended to breastfeed exclusively, before birth	80.7	73.9 - 87.5	1,500	84.8	76.0 - 93.7	600	78.3	69.1 - 87.6	1,000
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	85.9	79.3 - 92.5	1,600	86.4 *	78.3 - 94.4	600	85.7 *	76.5 - 94.9	1,000
Exclusive breastfeeding, 1 month after delivery	65.3	57.9 - 72.7	1,200	66.8	55.6 - 77.9	500	64.4	54.8 - 74.1	800
Any breastfeeding, 3 months after delivery	74.4	66.3 - 82.5	1,200	75.6	64.4 - 86.8	400	73.8	62.9 - 84.6	800
Exclusive breastfeeding, 3 months after delivery	47.6	39.2 - 56.0	700	41.4	27.0 - 55.9	200	51.2	40.6 - 61.8	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Shasta County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Shasta County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	65.4	58.5	72.2	1,300	56.2	44.1	68.3	400	70.5	62.6	78.5	900
Initiated prenatal care in 1st trimester	88.3	84.0	92.6	1,700	89.3 *	82.0	96.6	600	87.8	82.5	93.1	1,100
Received dental care during pregnancy	44.3	36.8	51.8	900	38.6	27.0	50.1	300	47.5	38.0	57.0	600
Received a Tdap vaccine during pregnancy	23.5	17.7	29.3	500	25.9	15.9	35.9	200	22.1	15.0	29.2	300
Received a flu shot during pregnancy	38.5	30.9	46.1	700	33.1	22.1	44.2	200	41.4	31.7	51.2	500
Had a postpartum medical visit	90.0	85.8	94.2	1,800	94.2 *	89.1	99.4	600	87.7	81.9	93.5	1,100
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	43.5	36.2	50.7	900	38.7	26.5	50.9	300	46.2	37.0	55.4	600
Uninsured	11.3	6.9	15.7	200	20.6	11.0	30.1	100	6.1 *	2.1	10.0	<100
Private	43.9	36.4	51.5	900	39.9	28.2	51.7	300	46.2	36.6	55.8	600
Prenatal insurance												
Medi-Cal	61.0	53.4	68.6	1,200	60.3	48.6	72.1	400	61.4	51.5	71.3	800
Uninsured	--				--				--			
Private	35.9	28.2	43.5	700	37.7	26.0	49.3	300	34.9	24.8	44.9	400
Had any gaps in insurance during pregnancy	9.3	5.0	13.6	200	12.3 *	3.7	21.0	<100	7.6	3.2	12.0	<100
Maternal postpartum insurance												
Medi-Cal	53.5	46.0	61.0	1,100	56.3	44.3	68.3	400	51.9	42.4	61.5	700
Uninsured	7.5	4.0	11.0	100	6.1 *	0.6	11.5	<100	8.3	3.8	12.9	100
Private	38.5	30.9	46.1	800	37.7	26.0	49.3	300	39.0	29.1	48.8	500
Infant health insurance												
Medi-Cal	64.1	56.4	71.7	1,200	62.9	51.4	74.4	400	64.7	54.6	74.9	800
Uninsured	2.1 *	0.3	3.8	<100	--				--			
Private	33.4	25.7	41.0	600	33.3	22.1	44.5	200	33.4	23.2	43.6	400
Maternal Demographics												
Age												
15-19	4.9 *	1.4	8.4	<100	13.6 *	4.5	22.7	<100	--			
20-34	82.3	76.2	88.5	1,600	79.6	69.5	89.7	600	83.8	76.0	91.6	1,100
35+	12.8	7.3	18.2	300	6.7 *	1.2	12.3	<100	16.2	8.4	24.0	200
Less than high school education (or GED)	9.1	5.1	13.1	200	8.4 *	1.4	15.4	<100	9.5	4.6	14.3	100
Unmarried	46.9	39.5	54.3	900	54.8	42.7	67.0	400	42.5	33.4	51.5	500
Race/Ethnicity												
White	84.3	79.4	89.2	1,600	82.9	73.3	92.5	600	85.1	79.7	90.5	1,100
Hispanic	10.5	6.7	14.3	200	10.6 *	3.5	17.8	<100	10.4	5.9	14.8	100
Asian/Pacific Islander	2.8 *	0.2	5.4	<100	--				2.1 *	0.3	3.9	<100
Black	--				--				--			
Born outside the U.S.	6.5	3.1	9.9	100	--				6.1	2.7	9.6	<100
Speaks non-English language at home	6.8	3.4	10.2	100	8.0 *	0.7	15.4	<100	6.1	2.7	9.5	<100
Lives in a high poverty neighborhood†	3.6	1.5	5.8	<100	--				4.5 *	1.5	7.5	<100
Income as a percent of the Federal Poverty Guideline												
0-100%	37.6	30.7	44.6	700	31.9	20.0	43.8	200	40.6	32.1	49.2	500
101-200%	26.9	20.4	33.4	500	26.3	14.3	38.4	200	27.2	19.6	34.9	300
> 200%	35.5	28.3	42.6	600	41.8	29.4	54.2	300	32.1	23.3	41.0	400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Shasta County, n=171).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Shasta County was 270. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Solano County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,100	3.8	1.9 - 5.6	200	76.0	72.0 - 80.0	3,800	20.3	16.5 - 24.0	1,000
Health Status before Pregnancy												
In good to excellent health	93.3	90.9 - 95.6	4,700	--			93.0	90.4 - 95.7	3,600	93.9 *	88.7 - 99.1	1,000
Chronic conditions												
Diabetes	3.0	1.4 - 4.7	200	--			2.9 *	1.2 - 4.6	100	--		
Hypertension	3.4	1.6 - 5.2	200	--			3.4 *	1.3 - 5.4	100	--		
Asthma	14.3	10.8 - 17.9	700	--			16.6	12.2 - 21.0	600	6.3 *	2.1 - 10.5	<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.2	32.7 - 41.7	1,900	18.5 *	2.6 - 34.4	<100	35.3	30.2 - 40.4	1,300	47.4	37.1 - 57.7	500
Overweight before pregnancy†	28.7	24.4 - 33.0	1,400	--			28.3	23.4 - 33.1	1,100	33.9	23.8 - 44.0	300
Obese before pregnancy†	30.5	26.2 - 34.9	1,500	23.3 *	3.1 - 43.5	<100	30.6	25.5 - 35.6	1,200	31.8	22.5 - 41.0	300
Inadequate weight gain during pregnancy†	22.3	18.5 - 26.1	1,000	44.6 *	17.8 - 71.5	<100	21.1	17.0 - 25.2	800	22.4	13.4 - 31.5	200
Excessive weight gain during pregnancy†	46.5	41.8 - 51.2	2,200	20.8 *	3.8 - 37.8	<100	47.5	42.2 - 52.8	1,700	47.7	36.7 - 58.6	400
Food insecurity during pregnancy	15.4	11.8 - 18.9	800	46.7	20.2 - 73.2	<100	15.6	11.5 - 19.6	600	8.8 *	3.4 - 14.1	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	39.6	35.0 - 44.2	1,900	67.4 *	44.5 - 90.3	100	41.3	36.0 - 46.6	1,500	27.4	18.5 - 36.3	300
Received CalFresh (food stamps) during pregnancy	20.2	16.5 - 23.8	1,000	34.5 *	11.6 - 57.4	<100	22.2	17.8 - 26.6	800	9.7 *	3.7 - 15.6	<100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9 - 6.4	200	--			4.9	2.1 - 7.7	200	--		
Prenatal depressive symptoms†	12.6	9.7 - 15.5	600	--			13.8	10.4 - 17.3	500	6.5 *	1.5 - 11.4	<100
Postpartum depressive symptoms†	9.4	6.9 - 11.8	500	--			10.1	7.3 - 12.9	400	6.6 *	1.3 - 11.8	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.9	2.4 - 7.4	200	--			4.4 *	1.7 - 7.1	200	--		
Moved due to problems paying rent or mortgage	7.6	4.8 - 10.3	400	--			7.9	4.8 - 10.9	300	--		
Woman or partner lost job	15.1	11.6 - 18.6	800	32.6 *	5.5 - 59.7	<100	15.1	11.1 - 19.1	600	12.0	5.8 - 18.2	100
Woman or partner had pay or hours cut back	12.7	9.5 - 15.8	600	--			13.9	10.1 - 17.8	500	8.6 *	2.9 - 14.2	<100
Became separated or divorced	5.1	3.1 - 7.0	300	--			5.6	3.2 - 7.9	200	--		
Had no practical or emotional support	3.6	1.9 - 5.3	200	--			3.2	1.5 - 5.0	100	5.4 *	0.1 - 10.7	<100
Substance Use												
Any smoking, 3 months before pregnancy	12.5	9.5 - 15.6	600	--			12.9	9.4 - 16.3	500	9.4 *	2.8 - 15.9	<100
Any smoking, 3rd trimester	1.9 *	0.7 - 3.1	<100	--			1.9 *	0.7 - 3.2	<100	--		
Any smoking, postpartum	6.5	4.2 - 8.8	300	--			6.1	3.7 - 8.4	200	6.8 *	0.7 - 12.9	<100
Any binge drinking, 3 months before pregnancy	14.0	10.9 - 17.2	700	--			15.7	11.9 - 19.4	600	9.8 *	3.4 - 16.2	<100
Any alcohol use, 3rd trimester	5.8	3.8 - 7.9	300	--			5.7	3.5 - 8.0	200	6.5 *	1.2 - 11.8	<100
Any cannabis use during pregnancy	7.8	5.1 - 10.4	400	--			7.0	4.3 - 9.7	300	7.2 *	1.7 - 12.7	<100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.2	21.1 - 29.3	1,300	48.4	22.8 - 74.0	<100	27.0	22.2 - 31.8	1,000	14.3	8.0 - 20.7	100
Unsure of pregnancy intentions	17.0	13.3 - 20.6	900	--			17.1	13.0 - 21.3	700	17.5	9.3 - 25.8	200
Postpartum birth control use	83.5	80.1 - 86.9	4,100	74.9 *	53.3 - 96.6	100	85.3	81.7 - 88.8	3,200	78.6	69.7 - 87.5	800
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.0	79.6 - 86.3	4,100	61.8 *	36.8 - 86.9	100	83.9	80.2 - 87.6	3,200	83.2	75.7 - 90.7	800
Infant always or often shared bed	36.3	31.8 - 40.9	1,800	60.4 *	35.1 - 85.7	100	34.9	29.8 - 39.9	1,300	37.8	27.4 - 48.2	400
Intended to breastfeed, before birth	94.4	92.2 - 96.7	4,700	--			94.3	91.7 - 96.9	3,600	94.0 *	88.7 - 99.4	900
Intended to breastfeed exclusively, before birth	75.9	71.8 - 80.0	3,800	--			76.7	72.1 - 81.3	2,900	70.9	61.2 - 80.6	700
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	87.4	84.2 - 90.6	4,300	--			88.5	85.1 - 92.0	3,300	85.9	78.9 - 93.0	800
Exclusive breastfeeding, 1 month after delivery	53.8	49.0 - 58.7	2,600	49.2	21.3 - 77.1	<100	54.6	49.2 - 60.1	2,000	51.6	40.9 - 62.4	500
Any breastfeeding, 3 months after delivery	72.8	68.1 - 77.5	2,900	46.4 *	17.8 - 75.1	<100	74.1	68.9 - 79.3	2,200	73.0	62.9 - 83.1	600
Exclusive breastfeeding, 3 months after delivery	38.6	33.5 - 43.8	1,500	23.5 *	1.2 - 45.9	<100	39.5	33.6 - 45.5	1,200	38.0	26.9 - 49.2	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	77.8	73.8	81.7	3,900	75.6 *	56.4	94.8	100	77.3	72.7	81.9	3,000	79.9	71.3	88.5	800
Initiated prenatal care in 1st trimester	92.8	90.1	95.6	4,600	--				92.7	89.4	96.1	3,500	94.6 *	90.6	98.5	900
Received dental care during pregnancy	46.5	41.9	51.1	2,400	37.2 *	10.6	63.7	<100	46.7	41.4	52.0	1,800	47.6	37.4	57.9	500
Received a Tdap vaccine during pregnancy	74.3	70.2	78.4	3,800	68.3 *	46.5	90.1	100	75.8	71.2	80.5	2,900	69.7	60.1	79.4	700
Received a flu shot during pregnancy	73.3	69.3	77.4	3,700	88.3 *	76.9	99.7	200	72.0	67.3	76.8	2,800	75.4	66.7	84.1	800
Had a postpartum medical visit	91.9	89.4	94.5	4,600	--				93.1	90.4	95.7	3,500	89.2 *	82.2	96.2	900
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	30.6	26.5	34.7	1,500	79.2 *	60.0	98.4	200	29.0	24.4	33.5	1,100	27.7	18.5	36.8	300
Uninsured	9.9	6.9	12.9	500	--				11.6	7.9	15.3	400	5.4 *	1.6	9.2	<100
Private	51.9	47.2	56.5	2,600	--				51.4	46.0	56.7	2,000	60.6	50.6	70.5	600
Prenatal insurance																
Medi-Cal	43.1	38.5	47.7	2,200	78.6 *	58.9	98.4	100	43.7	38.5	49.0	1,700	34.3	24.8	43.9	400
Uninsured	--				--				--				--			
Private	48.8	44.1	53.4	2,400	--				47.3	42.0	52.7	1,800	60.0	50.1	70.0	600
Had any gaps in insurance during pregnancy	10.6	7.5	13.6	500	--				10.9	7.4	14.3	400	7.7 *	2.2	13.3	<100
Maternal postpartum insurance																
Medi-Cal	40.6	36.1	45.2	2,000	71.2 *	48.5	94.0	100	42.6	37.3	47.8	1,600	28.3	19.1	37.6	300
Uninsured	4.8	2.9	6.6	200	--				4.2	2.1	6.3	200	6.6 *	2.0	11.2	<100
Private	46.3	41.6	50.9	2,300	--				44.3	38.9	49.6	1,700	60.0	49.9	70.0	600
Infant health insurance																
Medi-Cal	47.2	42.5	51.9	2,300	--				47.5	42.1	52.8	1,800	39.7	29.6	49.9	400
Uninsured	1.6 *	0.6	2.6	<100	--				1.1 *	0.3	1.9	<100	--			
Private	43.5	38.8	48.2	2,200	--				43.1	37.7	48.4	1,600	52.2	41.8	62.6	500
Maternal Demographics																
First live birth	38.4	33.9	42.9	1,900	--				41.9	36.7	47.1	1,600	16.2	9.2	23.1	200
Less than high school education (or GED)	10.7	7.9	13.5	500	45.2	19.9	70.5	<100	10.1	7.0	13.3	400	6.4 *	1.4	11.3	<100
Unmarried	40.2	35.5	44.8	2,000	--				41.1	35.8	46.4	1,600	28.7	18.9	38.5	300
Race/Ethnicity																
White	33.3	29.0	37.6	1,600	--				34.5	29.5	39.6	1,300	31.2	22.2	40.1	300
Hispanic	35.3	30.9	39.8	1,700	53.6	28.3	78.8	<100	37.2	32.0	42.3	1,400	25.2	15.8	34.7	300
Asian/Pacific Islander	16.7	13.1	20.4	800	--				13.1	9.5	16.8	500	33.1	22.6	43.7	300
Black	13.5	12.1	14.9	700	25.2 *	6.8	43.6	<100	13.9	11.8	16.0	500	10.0	5.7	14.3	100
Born outside the U.S.	26.9	22.9	31.0	1,400	--				24.9	20.6	29.3	1,000	37.6	27.3	47.9	400
Speaks non-English language at home	20.9	17.3	24.6	1,000	--				20.4	16.3	24.6	800	25.0	16.1	33.9	200
Lives in a high poverty neighborhood†	4.6	2.6	6.7	200	32.3 *	4.5	60.0	<100	3.9	1.9	5.9	100	2.3 *	0.1	4.6	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Solano County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,100	10.7	7.9 - 13.5	500	18.6	14.9 - 22.3	900	39.8	35.1 - 44.4	2,000	30.9	26.7 - 35.1	1,500
Health Status before Pregnancy															
In good to excellent health	93.3	90.9 - 95.6	4,700	89.3 *	80.4 - 98.2	500	91.1 *	84.7 - 97.5	800	91.2	87.1 - 95.4	1,800	--		
Chronic conditions															
Diabetes	3.0	1.4 - 4.7	200	--			--			4.3 *	1.2 - 7.5	<100	--		
Hypertension	3.4	1.6 - 5.2	200	--			--			3.5 *	0.5 - 6.6	<100	--		
Asthma	14.3	10.8 - 17.9	700	10.2 *	2.8 - 17.6	<100	7.2 *	1.4 - 13.1	<100	19.3	12.3 - 26.2	400	12.2	7.2 - 17.2	200
Nutrition and Weight															
Daily folic acid use, month before pregnancy	37.2	32.7 - 41.7	1,900	30.4	17.7 - 43.2	200	26.2	16.1 - 36.2	200	30.1	23.0 - 37.2	600	55.7	47.8 - 63.6	900
Overweight before pregnancy†	28.7	24.4 - 33.0	1,400	28.7	15.8 - 41.6	200	28.7	18.9 - 38.5	300	28.2	21.3 - 35.2	600	26.4	19.1 - 33.7	400
Obese before pregnancy†	30.5	26.2 - 34.9	1,500	33.6	20.7 - 46.5	200	24.6	15.7 - 33.5	200	38.5	30.6 - 46.4	800	23.7	17.4 - 30.0	400
Inadequate weight gain during pregnancy†	22.3	18.5 - 26.1	1,000	33.9	20.6 - 47.3	200	29.3	19.0 - 39.7	300	17.3	11.8 - 22.7	300	20.0	13.8 - 26.1	300
Excessive weight gain during pregnancy†	46.5	41.8 - 51.2	2,200	23.7	11.8 - 35.7	100	43.3	32.4 - 54.3	400	52.8	45.0 - 60.7	900	48.5	40.5 - 56.6	700
Food insecurity during pregnancy	15.4	11.8 - 18.9	800	23.5	12.3 - 34.7	100	19.8	10.1 - 29.4	200	16.0	9.9 - 22.0	300	8.9	4.5 - 13.4	100
Nutrition Program Participation															
Participated in WIC during pregnancy	39.6	35.0 - 44.2	1,900	75.5	63.7 - 87.3	400	55.6	44.4 - 66.7	500	39.3	31.8 - 46.8	800	16.3	10.7 - 22.0	200
Received CalFresh (food stamps) during pregnancy	20.2	16.5 - 23.8	1,000	50.4	36.7 - 64.1	300	25.9	17.0 - 34.8	200	20.6	14.4 - 26.9	400	4.3 *	1.6 - 6.9	<100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9 - 6.4	200	--			5.2 *	0.2 - 10.2	<100	4.9 *	0.6 - 9.2	100	--		
Prenatal depressive symptoms†	12.6	9.7 - 15.5	600	20.0	8.5 - 31.6	100	6.3 *	2.3 - 10.2	<100	15.1	9.9 - 20.2	300	9.9	5.4 - 14.3	200
Postpartum depressive symptoms†	9.4	6.9 - 11.8	500	--			7.0 *	2.0 - 11.9	<100	8.9	5.2 - 12.6	200	11.5	6.8 - 16.2	200
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.9	2.4 - 7.4	200	--			--			6.4 *	1.4 - 11.4	100	2.2 *	0.2 - 4.2	<100
Moved due to problems paying rent or mortgage	7.6	4.8 - 10.3	400	--			9.2 *	1.7 - 16.8	<100	9.6	4.2 - 15.0	200	4.1 *	1.4 - 6.8	<100
Woman or partner lost job	15.1	11.6 - 18.6	800	19.5	8.1 - 30.8	<100	13.8 *	5.4 - 22.1	100	19.6	13.2 - 26.0	400	9.4	4.8 - 14.0	100
Woman or partner had pay or hours cut back	12.7	9.5 - 15.8	600	12.0 *	1.9 - 22.1	<100	10.1	4.3 - 15.8	<100	20.6	14.1 - 27.2	400	4.8 *	1.8 - 7.7	<100
Became separated or divorced	5.1	3.1 - 7.0	300	8.3 *	1.0 - 15.7	<100	--			7.8	3.7 - 11.8	200	3.0 *	0.6 - 5.4	<100
Had no practical or emotional support	3.6	1.9 - 5.3	200	--			--			3.6 *	0.7 - 6.5	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	12.5	9.5 - 15.6	600	16.5 *	6.3 - 26.7	<100	17.6	9.1 - 26.1	200	16.7	11.1 - 22.4	300	2.7 *	0.5 - 5.0	<100
Any smoking, 3rd trimester	1.9 *	0.7 - 3.1	<100	--			--			2.4 *	0.1 - 4.7	<100	--		
Any smoking, postpartum	6.5	4.2 - 8.8	300	--			9.2 *	2.9 - 15.6	<100	8.9	4.6 - 13.2	200	--		
Any binge drinking, 3 months before pregnancy	14.0	10.9 - 17.2	700	9.6 *	2.4 - 16.7	<100	13.7	6.8 - 20.6	100	15.7	9.7 - 21.6	300	14.4	9.3 - 19.6	200
Any alcohol use, 3rd trimester	5.8	3.8 - 7.9	300	--			--			5.9	2.5 - 9.3	100	8.3	4.0 - 12.7	100
Any cannabis use during pregnancy	7.8	5.1 - 10.4	400	--			9.9 *	2.3 - 17.6	<100	11.4	6.6 - 16.3	200	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.2	21.1 - 29.3	1,300	31.6	18.8 - 44.5	200	32.5	21.7 - 43.4	300	28.6	21.6 - 35.6	600	15.7	10.2 - 21.1	200
Unsure of pregnancy intentions	17.0	13.3 - 20.6	900	25.3	13.5 - 37.1	100	13.5	7.0 - 20.0	100	18.9	12.3 - 25.4	400	12.7	7.1 - 18.4	200
Postpartum birth control use	83.5	80.1 - 86.9	4,100	82.5 *	71.5 - 93.5	400	85.4	77.0 - 93.8	800	82.9	77.7 - 88.1	1,600	84.7	79.2 - 90.2	1,300
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.0	79.6 - 86.3	4,100	73.8	61.2 - 86.4	400	83.3	76.3 - 90.2	800	84.6	79.4 - 89.8	1,700	83.1	76.9 - 89.2	1,300
Infant always or often shared bed	36.3	31.8 - 40.9	1,800	40.2	26.6 - 53.8	200	36.6	25.9 - 47.4	300	40.5	32.9 - 48.1	800	30.4	22.9 - 37.9	500
Intended to breastfeed, before birth	94.4	92.2 - 96.7	4,700	--			89.0 *	82.4 - 95.6	800	93.9 *	89.8 - 97.9	1,800	97.5 *	95.1 - 99.9	1,500
Intended to breastfeed exclusively, before birth	75.9	71.8 - 80.0	3,800	72.3	59.5 - 85.0	400	68.6	59.0 - 78.3	600	73.4	66.2 - 80.6	1,400	86.4	80.9 - 92.0	1,300
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	87.4	84.2 - 90.6	4,300	83.2 *	73.1 - 93.4	400	80.9	71.7 - 90.2	700	87.5	82.4 - 92.6	1,700	92.2	87.7 - 96.7	1,400
Exclusive breastfeeding, 1 month after delivery	53.8	49.0 - 58.7	2,600	46.7	32.3 - 61.1	200	53.1	41.7 - 64.5	500	57.5	49.6 - 65.4	1,100	52.7	44.5 - 61.0	800
Any breastfeeding, 3 months after delivery	72.8	68.1 - 77.5	2,900	66.3	52.8 - 79.7	300	60.8	48.5 - 73.1	500	71.9	64.4 - 79.4	1,100	83.6	76.6 - 90.7	1,000
Exclusive breastfeeding, 3 months after delivery	38.6	33.5 - 43.8	1,500	26.1	12.6 - 39.6	100	29.4	17.9 - 40.8	200	40.6	32.0 - 49.2	600	47.7	38.5 - 57.0	500

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MIHA Data Snapshot, Solano County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	73.8 - 81.7	3,900	72.8	60.5 - 85.1	400	67.8	57.3 - 78.3	600	79.9	73.6 - 86.3	1,600	83.2	77.1 - 89.3	1,300
Initiated prenatal care in 1st trimester	92.8	90.1 - 95.6	4,600	74.0	61.3 - 86.7	400	95.3 *	91.8 - 98.7	900	93.0 *	87.6 - 98.3	1,800	97.1 *	94.6 - 99.7	1,400
Received dental care during pregnancy	46.5	41.9 - 51.1	2,400	32.9	20.2 - 45.7	200	35.3	24.5 - 46.2	300	40.7	33.2 - 48.1	800	64.2	56.5 - 71.9	1,000
Received a Tdap vaccine during pregnancy	74.3	70.2 - 78.4	3,800	50.9	37.1 - 64.7	300	74.1	64.6 - 83.6	700	77.5	71.0 - 84.0	1,500	79.3	72.5 - 86.1	1,200
Received a flu shot during pregnancy	73.3	69.3 - 77.4	3,700	73.3	61.2 - 85.5	400	69.9	60.1 - 79.6	600	72.9	66.2 - 79.5	1,400	76.0	68.9 - 83.1	1,200
Had a postpartum medical visit	91.9	89.4 - 94.5	4,600	92.5 *	85.8 - 99.2	500	88.7 *	81.4 - 96.1	800	91.7	87.7 - 95.8	1,800	93.6 *	89.5 - 97.7	1,400
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	30.6	26.5 - 34.7	1,500	82.6 *	71.8 - 93.4	400	42.1	31.4 - 52.9	400	28.9	22.4 - 35.3	600	6.4	3.1 - 9.6	<100
Uninsured	9.9	6.9 - 12.9	500	10.1 *	1.0 - 19.2	<100	14.9	7.5 - 22.4	100	12.3	6.5 - 18.1	200	4.1 *	1.4 - 6.9	<100
Private	51.9	47.2 - 56.5	2,600	--			37.9	26.9 - 48.9	400	50.3	42.6 - 58.1	1,000	78.8	72.6 - 85.1	1,200
Prenatal insurance															
Medi-Cal	43.1	38.5 - 47.7	2,200	--			58.5	47.4 - 69.5	500	44.3	36.6 - 51.9	900	13.6	8.7 - 18.5	200
Uninsured	--			--			--			--			--		
Private	48.8	44.1 - 53.4	2,400	--			36.5	25.5 - 47.5	300	46.8	39.0 - 54.5	900	74.8	68.2 - 81.5	1,200
Had any gaps in insurance during pregnancy	10.6	7.5 - 13.6	500	14.8 *	4.7 - 24.9	<100	12.6 *	4.2 - 20.9	100	11.5	6.3 - 16.7	200	7.1 *	2.9 - 11.4	100
Maternal postpartum insurance															
Medi-Cal	40.6	36.1 - 45.2	2,000	83.3 *	73.0 - 93.5	400	49.3	38.3 - 60.2	500	45.2	37.5 - 52.8	900	14.1	8.8 - 19.4	200
Uninsured	4.8	2.9 - 6.6	200	10.6 *	2.3 - 18.9	<100	10.0 *	3.4 - 16.7	<100	3.1 *	0.8 - 5.4	<100	--		
Private	46.3	41.6 - 50.9	2,300	--			34.0	23.2 - 44.9	300	43.0	35.3 - 50.7	900	73.0	66.1 - 80.0	1,100
Infant health insurance															
Medi-Cal	47.2	42.5 - 51.9	2,300	--			57.3	46.3 - 68.4	500	52.0	44.2 - 59.8	1,000	16.9	11.2 - 22.6	300
Uninsured	1.6 *	0.6 - 2.6	<100	--			--			1.8 *	0.2 - 3.3	<100	--		
Private	43.5	38.8 - 48.2	2,200	--			32.4	21.6 - 43.3	300	38.9	31.2 - 46.6	800	71.0	63.8 - 78.1	1,100
Maternal Demographics															
First live birth	38.4	33.9 - 42.9	1,900	29.5	17.4 - 41.6	200	38.7	27.9 - 49.6	400	36.6	29.4 - 43.8	700	45.3	37.4 - 53.2	700
Unmarried	40.2	35.5 - 44.8	2,000	64.1	50.7 - 77.5	300	51.8	40.9 - 62.8	500	47.0	39.3 - 54.8	900	14.4	8.8 - 20.0	200
Race/Ethnicity															
White	33.3	29.0 - 37.6	1,600	17.2 *	6.7 - 27.7	<100	29.3	19.3 - 39.3	300	31.4	24.1 - 38.7	600	45.0	37.1 - 52.9	700
Hispanic	35.3	30.9 - 39.8	1,700	68.7	56.1 - 81.3	400	42.6	31.5 - 53.6	400	34.7	27.2 - 42.1	600	18.3	11.8 - 24.8	300
Asian/Pacific Islander	16.7	13.1 - 20.4	800	--			16.5	7.3 - 25.8	200	14.0	8.3 - 19.6	300	26.2	18.7 - 33.7	400
Black	13.5	12.1 - 14.9	700	10.5 *	2.6 - 18.4	<100	11.6	6.4 - 16.7	100	18.8	14.6 - 22.9	400	8.4	5.3 - 11.6	100
Born outside the U.S.	26.9	22.9 - 31.0	1,400	50.1	36.3 - 63.8	300	31.5	21.8 - 41.3	300	16.7	11.2 - 22.1	300	28.2	21.0 - 35.4	400
Speaks non-English language at home	20.9	17.3 - 24.6	1,000	47.8	34.0 - 61.5	300	31.1	21.3 - 41.0	300	10.6	6.3 - 14.9	200	17.8	11.9 - 23.8	300
Lives in a high poverty neighborhood†	4.6	2.6 - 6.7	200	11.4 *	3.9 - 18.9	<100	9.3 *	1.7 - 17.0	<100	3.8 *	0.9 - 6.6	<100	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	28.0	23.7 - 32.2	1,300	74.1	61.1 - 87.1	300	40.8	29.7 - 51.9	300	26.4	19.5 - 33.4	500	7.0	3.3 - 10.6	100
101-200%	25.2	20.9 - 29.4	1,200	21.0	9.0 - 33.1	<100	38.1	26.8 - 49.4	300	31.7	24.2 - 39.2	600	11.3	6.3 - 16.4	200
> 200%	46.9	42.1 - 51.7	2,200	--			21.1	11.2 - 31.0	200	41.9	34.0 - 49.8	800	81.7	75.7 - 87.7	1,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Solano County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			5,100	84.4	80.9	87.9	4,200	15.6	12.1	19.1	800
Health Status before Pregnancy												
In good to excellent health	93.3	90.9	95.6	4,700	92.7	90.1	95.3	3,800	--			
Chronic conditions												
Diabetes	3.0	1.4	4.7	200	3.6	1.6	5.5	100	--			
Hypertension	3.4	1.6	5.2	200	3.9	1.8	6.1	200	--			
Asthma	14.3	10.8	17.9	700	15.3	11.3	19.4	600	9.8 *	3.1	16.6	<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.2	32.7	41.7	1,900	35.6	30.6	40.5	1,500	48.8	36.6	61.0	400
Overweight before pregnancy†	28.7	24.4	33.0	1,400	28.3	23.7	32.8	1,200	32.2	19.9	44.5	200
Obese before pregnancy†	30.5	26.2	34.9	1,500	32.7	27.8	37.6	1,400	19.8	10.7	28.9	100
Inadequate weight gain during pregnancy†	22.3	18.5	26.1	1,000	21.2	17.0	25.3	800	29.5	18.5	40.6	200
Excessive weight gain during pregnancy†	46.5	41.8	51.2	2,200	46.9	41.7	52.1	1,800	44.5	32.3	56.8	300
Food insecurity during pregnancy	15.4	11.8	18.9	800	16.5	12.4	20.5	700	9.2 *	2.9	15.5	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	39.6	35.0	44.2	1,900	43.5	38.4	48.7	1,700	16.2	8.5	23.9	100
Received CalFresh (food stamps) during pregnancy	20.2	16.5	23.8	1,000	23.2	18.9	27.4	900	4.9 *	0.6	9.3	<100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9	6.4	200	3.9 *	1.6	6.3	200	--			
Prenatal depressive symptoms†	12.6	9.7	15.5	600	12.4	9.3	15.6	500	11.5 *	4.3	18.8	<100
Postpartum depressive symptoms†	9.4	6.9	11.8	500	10.0	7.2	12.7	400	6.3 *	0.7	11.9	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.9	2.4	7.4	200	5.1	2.2	8.0	200	--			
Moved due to problems paying rent or mortgage	7.6	4.8	10.3	400	7.8	4.6	10.9	300	--			
Woman or partner lost job	15.1	11.6	18.6	800	15.0	11.1	18.9	600	15.9	7.4	24.4	100
Woman or partner had pay or hours cut back	12.7	9.5	15.8	600	13.5	9.8	17.1	600	10.3 *	3.6	17.0	<100
Became separated or divorced	5.1	3.1	7.0	300	5.4	3.2	7.6	200	--			
Had no practical or emotional support	3.6	1.9	5.3	200	3.4	1.5	5.2	100	--			
Substance Use												
Any smoking, 3 months before pregnancy	12.5	9.5	15.6	600	12.3	8.9	15.7	500	12.5 *	4.9	20.1	<100
Any smoking, 3rd trimester	1.9 *	0.7	3.1	<100	1.6 *	0.4	2.8	<100	--			
Any smoking, postpartum	6.5	4.2	8.8	300	7.0	4.4	9.6	300	--			
Any binge drinking, 3 months before pregnancy	14.0	10.9	17.2	700	12.6	9.5	15.7	500	24.1	12.7	35.4	200
Any alcohol use, 3rd trimester	5.8	3.8	7.9	300	5.8	3.6	8.0	200	7.1 *	0.9	13.2	<100
Any cannabis use during pregnancy	7.8	5.1	10.4	400	8.3	5.3	11.3	300	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.2	21.1	29.3	1,300	26.1	21.5	30.7	1,100	20.7	11.8	29.6	200
Unsure of pregnancy intentions	17.0	13.3	20.6	900	17.2	13.1	21.2	700	15.9	6.9	24.9	100
Postpartum birth control use	83.5	80.1	86.9	4,100	82.7	79.0	86.5	3,400	87.2 *	79.3	95.1	600
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.0	79.6	86.3	4,100	83.3	79.7	86.9	3,400	80.0	70.3	89.7	600
Infant always or often shared bed	36.3	31.8	40.9	1,800	38.5	33.5	43.6	1,600	29.2	18.5	40.0	200
Intended to breastfeed, before birth	94.4	92.2	96.7	4,700	94.8	92.4	97.2	3,800	--			
Intended to breastfeed exclusively, before birth	75.9	71.8	80.0	3,800	75.0	70.4	79.6	3,000	84.3	76.0	92.6	700
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	87.4	84.2	90.6	4,300	86.3	82.6	89.9	3,500	92.7 *	86.3	99.1	700
Exclusive breastfeeding, 1 month after delivery	53.8	49.0	58.7	2,600	52.0	46.7	57.3	2,000	59.9	47.5	72.3	400
Any breastfeeding, 3 months after delivery	72.8	68.1	77.5	2,900	71.2	65.9	76.5	2,300	79.2	69.2	89.1	500
Exclusive breastfeeding, 3 months after delivery	38.6	33.5	43.8	1,500	37.2	31.5	42.9	1,200	46.2	33.2	59.2	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.8	81.7	3,900	78.2	73.9	82.5	3,300	77.8	67.5	88.2	600
Initiated prenatal care in 1st trimester	92.8	90.1	95.6	4,600	92.4	89.3	95.5	3,800	--			
Received dental care during pregnancy	46.5	41.9	51.1	2,400	45.4	40.3	50.5	1,900	52.9	40.7	65.2	400
Received a Tdap vaccine during pregnancy	74.3	70.2	78.4	3,800	75.0	70.7	79.4	3,100	67.2	54.7	79.7	500
Received a flu shot during pregnancy	73.3	69.3	77.4	3,700	73.5	69.2	77.9	3,100	70.3	58.2	82.5	500
Had a postpartum medical visit	91.9	89.4	94.5	4,600	91.7	88.8	94.6	3,800	93.3 *	87.6	99.0	700
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.6	26.5	34.7	1,500	33.3	28.7	38.0	1,400	17.4	9.0	25.8	100
Uninsured	9.9	6.9	12.9	500	10.8	7.4	14.2	400	--			
Private	51.9	47.2	56.5	2,600	48.6	43.5	53.8	2,000	71.3	60.9	81.8	600
Prenatal insurance												
Medi-Cal	43.1	38.5	47.7	2,200	46.1	41.0	51.2	1,900	27.5	16.0	39.1	200
Uninsured	--				--				--			
Private	48.8	44.1	53.4	2,400	46.0	40.9	51.2	1,900	68.1	56.3	79.9	500
Had any gaps in insurance during pregnancy	10.6	7.5	13.6	500	11.8	8.3	15.4	500	--			
Maternal postpartum insurance												
Medi-Cal	40.6	36.1	45.2	2,000	42.9	37.8	47.9	1,800	30.3	18.5	42.0	200
Uninsured	4.8	2.9	6.6	200	5.1	2.9	7.3	200	--			
Private	46.3	41.6	50.9	2,300	44.1	39.0	49.2	1,800	61.8	49.7	73.8	500
Infant health insurance												
Medi-Cal	47.2	42.5	51.9	2,300	49.9	44.8	55.1	2,000	34.1	22.2	46.0	300
Uninsured	1.6 *	0.6	2.6	<100	1.9 *	0.7	3.1	<100	--			
Private	43.5	38.8	48.2	2,200	41.1	35.9	46.2	1,700	59.8	47.6	71.9	500
Maternal Demographics												
Age												
15-19	3.8	1.9	5.6	200	4.3	2.1	6.5	200	--			
20-34	76.0	72.0	80.0	3,800	75.8	71.3	80.2	3,200	76.4	66.7	86.0	600
35+	20.3	16.5	24.0	1,000	19.9	15.8	24.1	800	23.6	14.0	33.3	200
First live birth	38.4	33.9	42.9	1,900	38.6	33.7	43.5	1,600	39.2	27.3	51.1	300
Less than high school education (or GED)	10.7	7.9	13.5	500	11.7	8.5	14.9	500	--			
Unmarried	40.2	35.5	44.8	2,000	43.7	38.6	48.8	1,800	25.1	13.5	36.6	200
Race/Ethnicity												
White	33.3	29.0	37.6	1,600	30.3	25.7	35.0	1,200	47.5	35.2	59.7	300
Hispanic	35.3	30.9	39.8	1,700	37.1	32.2	42.0	1,500	25.2	13.0	37.4	200
Asian/Pacific Islander	16.7	13.1	20.4	800	16.1	12.0	20.2	600	21.5	12.0	31.1	200
Black	13.5	12.1	14.9	700	15.2	13.4	17.1	600	5.2 *	1.0	9.3	<100
Born outside the U.S.	26.9	22.9	31.0	1,400	27.4	23.0	31.9	1,100	21.8	12.5	31.2	200
Speaks non-English language at home	20.9	17.3	24.6	1,000	21.2	17.2	25.3	900	19.1	10.1	28.1	100
Lives in a high poverty neighborhood†	4.6	2.6	6.7	200	5.5	3.1	7.9	200	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	28.0	23.7	32.2	1,300	30.6	25.8	35.4	1,200	12.9	5.4	20.5	<100
101-200%	25.2	20.9	29.4	1,200	24.9	20.3	29.5	1,000	24.5	12.7	36.3	200
> 200%	46.9	42.1	51.7	2,200	44.5	39.2	49.7	1,700	62.5	50.1	74.9	500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Solano County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			5,100	28.0	23.7	32.2	1,300	25.2	20.9	29.4	1,200	46.9	42.1	51.7	2,200
Health Status before Pregnancy																
In good to excellent health	93.3	90.9	95.6	4,700	88.9	83.5	94.3	1,100	91.8 *	86.9	96.7	1,100	97.3 *	95.0	99.6	2,100
Chronic conditions																
Diabetes	3.0	1.4	4.7	200	6.2 *	2.0	10.4	<100	--				--			
Hypertension	3.4	1.6	5.2	200	5.1 *	0.9	9.3	<100	--				2.2 *	0.3	4.2	<100
Asthma	14.3	10.8	17.9	700	16.9	9.4	24.4	200	16.0	8.8	23.3	200	12.7	7.5	17.9	300
Nutrition and Weight																
Daily folic acid use, month before pregnancy	37.2	32.7	41.7	1,900	25.9	17.2	34.6	300	30.5	22.0	38.9	400	47.7	40.6	54.7	1,000
Overweight before pregnancy†	28.7	24.4	33.0	1,400	29.4	21.2	37.5	400	35.5	25.9	45.2	400	23.9	18.0	29.8	500
Obese before pregnancy†	30.5	26.2	34.9	1,500	31.0	22.3	39.8	400	31.5	22.6	40.4	400	30.8	24.2	37.5	700
Inadequate weight gain during pregnancy†	22.3	18.5	26.1	1,000	28.3	20.2	36.3	400	25.2	16.6	33.8	300	16.7	11.7	21.8	300
Excessive weight gain during pregnancy†	46.5	41.8	51.2	2,200	41.5	32.4	50.6	500	43.3	33.6	53.0	500	50.5	43.3	57.6	1,000
Food insecurity during pregnancy	15.4	11.8	18.9	800	29.6	20.7	38.5	400	18.8	10.6	26.9	200	5.8	3.1	8.6	100
Nutrition Program Participation																
Participated in WIC during pregnancy	39.6	35.0	44.2	1,900	76.6	69.2	83.9	1,000	52.9	42.9	62.8	600	6.4	3.2	9.7	100
Received CalFresh (food stamps) during pregnancy	20.2	16.5	23.8	1,000	63.4	55.0	71.8	800	11.3	6.3	16.3	100	--			
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9	6.4	200	4.0 *	1.0	7.1	<100	--				3.2 *	0.4	6.0	<100
Prenatal depressive symptoms†	12.6	9.7	15.5	600	16.0	9.6	22.3	200	15.1	8.1	22.0	200	9.0	5.4	12.5	200
Postpartum depressive symptoms†	9.4	6.9	11.8	500	8.0	3.5	12.4	100	12.2	6.5	17.9	100	7.5	4.2	10.9	200
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	4.9	2.4	7.4	200	11.2 *	4.3	18.1	100	--				--			
Moved due to problems paying rent or mortgage	7.6	4.8	10.3	400	12.1 *	4.9	19.4	200	10.3 *	3.4	17.3	100	3.3 *	1.1	5.6	<100
Woman or partner lost job	15.1	11.6	18.6	800	29.5	20.7	38.3	400	19.6	11.2	28.0	200	5.4	2.6	8.3	100
Woman or partner had pay or hours cut back	12.7	9.5	15.8	600	21.8	13.4	30.2	300	13.4	6.6	20.3	200	7.1	4.1	10.1	200
Became separated or divorced	5.1	3.1	7.0	300	8.7	4.5	12.9	100	6.0 *	0.6	11.4	<100	2.5 *	0.5	4.4	<100
Had no practical or emotional support	3.6	1.9	5.3	200	5.7 *	1.8	9.6	<100	--				--			
Substance Use																
Any smoking, 3 months before pregnancy	12.5	9.5	15.6	600	19.8	12.9	26.8	300	15.0	8.1	21.9	200	7.9	3.9	11.8	200
Any smoking, 3rd trimester	1.9 *	0.7	3.1	<100	3.8 *	0.3	7.3	<100	4.0 *	0.6	7.5	<100	--			
Any smoking, postpartum	6.5	4.2	8.8	300	10.7	5.4	16.0	100	8.9 *	3.5	14.3	100	2.7 *	0.1	5.3	<100
Any binge drinking, 3 months before pregnancy	14.0	10.9	17.2	700	10.9	6.3	15.6	100	16.1	8.1	24.0	200	14.7	10.0	19.5	300
Any alcohol use, 3rd trimester	5.8	3.8	7.9	300	7.3 *	2.8	11.8	<100	2.6 *	0.2	5.1	<100	7.5	3.9	11.2	200
Any cannabis use during pregnancy	7.8	5.1	10.4	400	12.4	6.5	18.2	200	10.9 *	3.8	18.1	100	4.5 *	1.5	7.4	<100
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	25.2	21.1	29.3	1,300	38.3	29.3	47.2	500	34.0	24.3	43.7	400	13.8	9.4	18.1	300
Unsure of pregnancy intentions	17.0	13.3	20.6	900	23.1	15.9	30.3	300	17.1	10.0	24.2	200	13.9	8.2	19.6	300
Postpartum birth control use	83.5	80.1	86.9	4,100	78.1	70.6	85.6	1,000	85.8	79.6	92.0	1,000	86.3	81.9	90.7	1,800
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	83.0	79.6	86.3	4,100	73.5	65.6	81.4	900	85.3	79.2	91.4	1,000	87.1	82.5	91.7	1,900
Infant always or often shared bed	36.3	31.8	40.9	1,800	42.1	33.2	50.9	500	40.3	30.5	50.2	500	30.4	23.9	36.9	700
Intended to breastfeed, before birth	94.4	92.2	96.7	4,700	93.2 *	88.3	98.1	1,200	95.9 *	92.6	99.3	1,100	95.4 *	92.1	98.7	2,100
Intended to breastfeed exclusively, before birth	75.9	71.8	80.0	3,800	70.0	61.1	78.9	900	75.9	67.9	84.0	900	81.1	75.6	86.7	1,700
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	87.4	84.2	90.6	4,300	83.2	76.7	89.7	1,000	85.6	77.9	93.3	1,000	91.3	87.2	95.5	1,900
Exclusive breastfeeding, 1 month after delivery	53.8	49.0	58.7	2,600	53.5	44.2	62.9	600	52.8	42.8	62.9	600	55.9	48.6	63.1	1,200
Any breastfeeding, 3 months after delivery	72.8	68.1	77.5	2,900	65.6	56.7	74.5	700	67.9	57.6	78.3	600	78.9	71.9	85.9	1,300
Exclusive breastfeeding, 3 months after delivery	38.6	33.5	43.8	1,500	36.5	26.7	46.4	400	31.0	21.5	40.5	300	47.4	39.1	55.7	800

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.8 - 81.7	3,900	67.6	58.7 - 76.6	900	79.7	72.7 - 86.7	900	83.5	77.9 - 89.1	1,800
Initiated prenatal care in 1st trimester	92.8	90.1 - 95.6	4,600	84.0	75.8 - 92.2	1,100	91.3 *	85.6 - 97.0	1,100	98.7 *	97.4 - 99.9	2,100
Received dental care during pregnancy	46.5	41.9 - 51.1	2,400	34.1	25.4 - 42.9	400	41.1	31.5 - 50.7	500	57.7	50.6 - 64.7	1,300
Received a Tdap vaccine during pregnancy	74.3	70.2 - 78.4	3,800	64.6	56.1 - 73.1	800	75.2	66.1 - 84.3	900	81.6	76.2 - 86.9	1,800
Received a flu shot during pregnancy	73.3	69.3 - 77.4	3,700	71.3	63.5 - 79.1	900	73.3	64.1 - 82.6	900	76.7	71.0 - 82.4	1,700
Had a postpartum medical visit	91.9	89.4 - 94.5	4,600	88.4	82.7 - 94.2	1,100	91.9 *	87.0 - 96.9	1,100	94.5 *	91.2 - 97.9	2,100
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.6	26.5 - 34.7	1,500	68.3	59.4 - 77.2	900	41.1	31.5 - 50.6	500	3.7 *	1.3 - 6.0	<100
Uninsured	9.9	6.9 - 12.9	500	18.3	10.2 - 26.4	200	12.8	6.7 - 19.0	200	2.6 *	0.3 - 4.8	<100
Private	51.9	47.2 - 56.5	2,600	12.0	6.3 - 17.7	200	36.3	26.3 - 46.3	400	82.9	77.7 - 88.1	1,800
Prenatal insurance												
Medi-Cal	43.1	38.5 - 47.7	2,200	89.5	84.2 - 94.8	1,200	60.0	50.3 - 69.7	700	5.2	2.6 - 7.8	100
Uninsured	--			--			--			--		
Private	48.8	44.1 - 53.4	2,400	8.5	3.6 - 13.4	100	28.7	19.5 - 37.9	300	84.1	79.2 - 88.9	1,800
Had any gaps in insurance during pregnancy	10.6	7.5 - 13.6	500	12.9	7.3 - 18.6	200	15.8	7.1 - 24.5	200	4.9	2.1 - 7.8	100
Maternal postpartum insurance												
Medi-Cal	40.6	36.1 - 45.2	2,000	82.8	76.1 - 89.5	1,100	56.9	47.0 - 66.7	700	4.9	2.5 - 7.3	100
Uninsured	4.8	2.9 - 6.6	200	9.7	4.3 - 15.0	100	7.0 *	2.5 - 11.4	<100	--		
Private	46.3	41.6 - 50.9	2,300	5.5 *	1.5 - 9.6	<100	23.9	15.1 - 32.7	300	84.5	79.7 - 89.3	1,800
Infant health insurance												
Medi-Cal	47.2	42.5 - 51.9	2,300	91.1	86.2 - 96.0	1,200	62.8	53.2 - 72.3	700	10.1	5.8 - 14.4	200
Uninsured	1.6 *	0.6 - 2.6	<100	--			3.4 *	0.5 - 6.2	<100	--		
Private	43.5	38.8 - 48.2	2,200	5.6 *	1.5 - 9.7	<100	21.4	12.9 - 30.0	300	79.9	74.2 - 85.5	1,700
Maternal Demographics												
First live birth	38.4	33.9 - 42.9	1,900	31.9	24.1 - 39.7	400	39.4	29.6 - 49.3	500	40.0	33.1 - 46.8	900
Less than high school education (or GED)	10.7	7.9 - 13.5	500	26.5	18.6 - 34.4	300	8.2 *	3.1 - 13.3	<100	--		
Unmarried	40.2	35.5 - 44.8	2,000	70.5	62.3 - 78.7	900	47.9	37.9 - 57.9	600	18.1	12.5 - 23.7	400
Race/Ethnicity												
White	33.3	29.0 - 37.6	1,600	21.6	14.5 - 28.7	300	25.2	16.8 - 33.5	300	48.1	40.9 - 55.3	1,000
Hispanic	35.3	30.9 - 39.8	1,700	42.3	33.9 - 50.7	500	46.2	36.1 - 56.2	500	21.9	15.7 - 28.2	500
Asian/Pacific Islander	16.7	13.1 - 20.4	800	12.2	5.8 - 18.6	200	16.0	8.8 - 23.2	200	20.0	14.0 - 26.0	400
Black	13.5	12.1 - 14.9	700	22.1	16.4 - 27.9	300	11.1	6.9 - 15.2	100	9.3	6.5 - 12.2	200
Born outside the U.S.	26.9	22.9 - 31.0	1,400	29.6	21.7 - 37.5	400	29.1	20.9 - 37.2	300	21.6	15.6 - 27.7	500
Speaks non-English language at home	20.9	17.3 - 24.6	1,000	29.1	21.1 - 37.2	400	23.1	15.8 - 30.4	300	12.8	7.9 - 17.6	300
Lives in a high poverty neighborhood†	4.6	2.6 - 6.7	200	7.1 *	2.7 - 11.5	<100	9.7 *	3.1 - 16.4	100	--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Solano County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			Low: <10% of Residents Below Poverty†			Moderate-Low: 10-19% of Residents Below Poverty†			Moderate-High: 20-29% of Residents Below Poverty†			High: ≥30% of Residents Below Poverty†		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,100	45.5	40.9 - 50.2	2,300	37.9	33.3 - 42.5	1,900	11.9	9.1 - 14.7	600	4.6	2.6 - 6.7	200
Health Status before Pregnancy															
In good to excellent health	93.3	90.9 - 95.6	4,700	94.4 *	91.0 - 97.8	2,100	94.2	91.0 - 97.4	1,800	94.0 *	89.5 - 98.4	600	76.7 *	57.1 - 96.4	200
Chronic conditions															
Diabetes	3.0	1.4 - 4.7	200	3.7 *	0.7 - 6.6	<100	2.1 *	0.4 - 3.8	<100	--			--		
Hypertension	3.4	1.6 - 5.2	200	3.9 *	1.0 - 6.9	<100	--			--			--		
Asthma	14.3	10.8 - 17.9	700	9.8	5.8 - 13.8	200	18.4	11.3 - 25.6	300	22.7	12.2 - 33.2	100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	37.2	32.7 - 41.7	1,900	45.8	38.8 - 52.7	1,000	32.9	25.5 - 40.3	600	30.2	18.4 - 42.1	200	14.5 *	2.4 - 26.6	<100
Overweight before pregnancy†	28.7	24.4 - 33.0	1,400	29.8	23.3 - 36.2	700	26.2	19.2 - 33.2	500	34.5	22.2 - 46.8	200	27.5 *	8.7 - 46.2	<100
Obese before pregnancy†	30.5	26.2 - 34.9	1,500	29.1	22.7 - 35.5	600	28.0	20.6 - 35.4	500	44.3	31.7 - 56.8	300	34.9	14.4 - 55.4	<100
Inadequate weight gain during pregnancy†	22.3	18.5 - 26.1	1,000	20.1	14.8 - 25.4	400	23.1	16.7 - 29.4	400	26.8	14.9 - 38.7	100	29.5 *	5.4 - 53.6	<100
Excessive weight gain during pregnancy†	46.5	41.8 - 51.2	2,200	49.3	42.2 - 56.3	1,000	45.5	37.7 - 53.3	800	39.9	27.3 - 52.4	200	46.1	23.3 - 68.9	100
Food insecurity during pregnancy	15.4	11.8 - 18.9	800	9.0	5.2 - 12.7	200	19.0	12.5 - 25.6	400	15.0	6.2 - 23.8	<100	48.8	25.3 - 72.2	100
Nutrition Program Participation															
Participated in WIC during pregnancy	39.6	35.0 - 44.2	1,900	26.3	20.3 - 32.3	600	46.2	38.3 - 54.0	800	52.1	39.2 - 65.0	300	72.0 *	54.4 - 89.5	200
Received CalFresh (food stamps) during pregnancy	20.2	16.5 - 23.8	1,000	10.7	6.7 - 14.7	200	24.6	17.8 - 31.4	500	32.2	20.0 - 44.4	200	48.3	26.0 - 70.6	100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9 - 6.4	200	--			4.3 *	1.2 - 7.4	<100	--			--		
Prenatal depressive symptoms†	12.6	9.7 - 15.5	600	9.9	5.9 - 13.8	200	12.9	8.1 - 17.7	200	19.2	8.9 - 29.5	100	13.6 *	1.1 - 26.0	<100
Postpartum depressive symptoms†	9.4	6.9 - 11.8	500	8.5	5.0 - 12.0	200	11.0	6.7 - 15.3	200	9.4 *	2.1 - 16.7	<100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.9	2.4 - 7.4	200	3.3 *	0.6 - 5.9	<100	5.8 *	0.9 - 10.6	100	4.0 *	0.1 - 7.9	<100	--		
Moved due to problems paying rent or mortgage	7.6	4.8 - 10.3	400	4.5	2.1 - 6.8	100	9.4	4.0 - 14.8	200	--			--		
Woman or partner lost job	15.1	11.6 - 18.6	800	9.0	5.5 - 12.6	200	20.5	13.7 - 27.2	400	11.6 *	3.2 - 19.9	<100	43.1	19.3 - 66.9	<100
Woman or partner had pay or hours cut back	12.7	9.5 - 15.8	600	11.1	6.8 - 15.3	200	16.6	10.3 - 22.9	300	9.7 *	3.9 - 15.5	<100	--		
Became separated or divorced	5.1	3.1 - 7.0	300	3.2 *	0.6 - 5.8	<100	5.0	2.4 - 7.7	<100	--			--		
Had no practical or emotional support	3.6	1.9 - 5.3	200	2.7 *	0.3 - 5.2	<100	4.4 *	1.7 - 7.1	<100	--			--		
Substance Use															
Any smoking, 3 months before pregnancy	12.5	9.5 - 15.6	600	11.0	6.5 - 15.5	200	14.5	9.1 - 19.9	300	11.4 *	3.5 - 19.3	<100	--		
Any smoking, 3rd trimester	1.9 *	0.7 - 3.1	<100	--			3.7 *	0.7 - 6.7	<100	--			--		
Any smoking, postpartum	6.5	4.2 - 8.8	300	6.4	2.9 - 10.0	100	6.4	2.8 - 10.1	100	9.1 *	1.7 - 16.5	<100	--		
Any binge drinking, 3 months before pregnancy	14.0	10.9 - 17.2	700	13.5	9.0 - 18.0	300	14.2	8.5 - 19.9	300	22.6	12.6 - 32.6	100	--		
Any alcohol use, 3rd trimester	5.8	3.8 - 7.9	300	6.3	2.9 - 9.8	100	5.1	2.2 - 7.9	<100	6.9 *	1.3 - 12.6	<100	--		
Any cannabis use during pregnancy	7.8	5.1 - 10.4	400	6.5	2.9 - 10.1	100	9.3	5.0 - 13.6	200	--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.2	21.1 - 29.3	1,300	19.4	13.7 - 25.0	400	28.1	21.1 - 35.2	500	30.0	18.8 - 41.2	200	48.1	24.8 - 71.4	100
Unsure of pregnancy intentions	17.0	13.3 - 20.6	900	18.0	12.4 - 23.6	400	15.9	9.9 - 22.0	300	14.9 *	5.7 - 24.0	<100	20.5 *	3.4 - 37.6	<100
Postpartum birth control use	83.5	80.1 - 86.9	4,100	84.2	79.1 - 89.3	1,800	82.3	76.6 - 87.9	1,500	79.4	68.9 - 89.9	400	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.0	79.6 - 86.3	4,100	82.9	77.7 - 88.0	1,800	85.3	80.3 - 90.4	1,600	78.1	67.3 - 89.0	500	72.7 *	54.0 - 91.4	200
Infant always or often shared bed	36.3	31.8 - 40.9	1,800	38.2	31.3 - 45.2	800	35.3	28.0 - 42.6	600	34.5	22.8 - 46.1	200	46.2	23.0 - 69.5	100
Intended to breastfeed, before birth	94.4	92.2 - 96.7	4,700	92.5	88.4 - 96.7	2,000	95.6 *	93.1 - 98.2	1,700	--			--		
Intended to breastfeed exclusively, before birth	75.9	71.8 - 80.0	3,800	75.5	69.3 - 81.7	1,700	80.5	74.1 - 87.0	1,500	66.7	54.7 - 78.7	400	79.1 *	62.0 - 96.3	200
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	87.4	84.2 - 90.6	4,300	89.1	84.3 - 93.8	1,900	88.6	84.3 - 92.9	1,600	83.0 *	72.6 - 93.3	500	70.5 *	45.8 - 95.3	200
Exclusive breastfeeding, 1 month after delivery	53.8	49.0 - 58.7	2,600	52.0	44.8 - 59.2	1,100	56.9	49.0 - 64.9	1,000	52.4	39.6 - 65.2	300	38.3	17.4 - 59.1	<100
Any breastfeeding, 3 months after delivery	72.8	68.1 - 77.5	2,900	75.3	68.3 - 82.3	1,300	75.1	67.9 - 82.3	1,100	65.9	53.1 - 78.6	300	46.3	22.9 - 69.6	<100
Exclusive breastfeeding, 3 months after delivery	38.6	33.5 - 43.8	1,500	38.6	31.0 - 46.3	700	42.6	33.4 - 51.7	600	31.7	19.5 - 43.9	200	27.8 *	8.6 - 47.0	<100

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MIHA Data Snapshot, Solano County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	77.8	73.8	81.7	3,900	81.1	75.5	86.6	1,800	76.9	69.8	84.0	1,400	73.5	62.7	84.3	400	71.5 *	53.1	89.9	200
Initiated prenatal care in 1st trimester	92.8	90.1	95.6	4,600	95.3 *	92.3	98.3	2,100	91.8 *	86.3	97.2	1,700	93.9 *	87.9	99.8	500	79.5 *	60.9	98.1	200
Received dental care during pregnancy	46.5	41.9	51.1	2,400	55.6	48.6	62.5	1,300	40.5	32.8	48.1	800	34.1	22.0	46.3	200	40.9	17.4	64.4	<100
Received a Tdap vaccine during pregnancy	74.3	70.2	78.4	3,800	76.3	70.1	82.5	1,700	74.1	67.3	80.9	1,400	66.2	54.2	78.1	400	66.9 *	47.3	86.5	200
Received a flu shot during pregnancy	73.3	69.3	77.4	3,700	73.8	67.6	79.9	1,700	70.0	63.1	76.9	1,300	76.6	65.9	87.2	400	81.4 *	65.0	97.8	200
Had a postpartum medical visit	91.9	89.4	94.5	4,600	94.3 *	90.6	97.9	2,100	88.7	84.1	93.3	1,600	93.9 *	87.9	99.8	500	--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	30.6	26.5	34.7	1,500	17.3	12.2	22.4	400	38.6	31.3	45.9	700	44.8	32.4	57.3	300	65.0 *	44.3	85.7	100
Uninsured	9.9	6.9	12.9	500	7.9	4.4	11.5	200	13.1	7.0	19.3	200	--				--			
Private	51.9	47.2	56.5	2,600	65.5	59.1	72.0	1,500	42.3	34.5	50.2	800	44.8	32.3	57.3	300	20.4 *	2.6	38.3	<100
Prenatal insurance																				
Medi-Cal	43.1	38.5	47.7	2,200	26.5	20.6	32.5	600	54.1	46.3	61.9	1,000	58.1	45.5	70.8	300	79.6 *	61.7	97.4	200
Uninsured	--				--				--				--				--			
Private	48.8	44.1	53.4	2,400	63.7	57.1	70.2	1,400	39.9	32.2	47.6	700	37.1	24.8	49.4	200	20.4 *	2.6	38.3	<100
Had any gaps in insurance during pregnancy	10.6	7.5	13.6	500	7.9	3.6	12.3	200	12.4	7.4	17.4	200	11.8 *	3.9	19.7	<100	--			
Maternal postpartum insurance																				
Medi-Cal	40.6	36.1	45.2	2,000	24.1	18.3	29.9	500	53.1	45.2	60.9	1,000	56.1	43.5	68.7	300	66.6 *	45.9	87.4	200
Uninsured	4.8	2.9	6.6	200	4.2 *	1.3	7.1	<100	5.0 *	2.0	7.9	<100	--				--			
Private	46.3	41.6	50.9	2,300	61.3	54.6	68.1	1,400	36.5	28.9	44.2	700	35.2	23.2	47.1	200	20.4 *	2.6	38.3	<100
Infant health insurance																				
Medi-Cal	47.2	42.5	51.9	2,300	30.6	24.2	37.0	700	59.8	52.1	67.6	1,100	59.4	46.9	71.8	300	80.6 *	62.6	98.5	200
Uninsured	1.6 *	0.6	2.6	<100	--				2.4 *	0.5	4.2	<100	--				--			
Private	43.5	38.8	48.2	2,200	58.6	51.8	65.5	1,300	33.6	26.0	41.2	600	31.1	19.6	42.7	200	19.4 *	1.5	37.4	<100
Maternal Demographics																				
Age																				
15-19	3.8	1.9	5.6	200	--				3.9 *	1.3	6.4	<100	--				25.5 *	2.1	48.9	<100
20-34	76.0	72.0	80.0	3,800	72.9	66.5	79.3	1,600	78.5	72.6	84.5	1,500	83.0	73.5	92.5	500	64.2 *	41.2	87.2	100
35+	20.3	16.5	24.0	1,000	26.4	20.0	32.7	600	17.6	12.0	23.2	300	11.1 *	3.1	19.0	<100	10.4 *	0.4	20.3	<100
First live birth	38.4	33.9	42.9	1,900	40.3	33.4	47.1	900	36.8	29.6	44.0	700	38.3	26.0	50.6	200	39.3 *	15.6	63.0	<100
Less than high school education (or GED)	10.7	7.9	13.5	500	3.7 *	1.1	6.2	<100	14.3	9.0	19.6	300	17.0 *	6.9	27.1	<100	24.8 *	8.5	41.1	<100
Unmarried	40.2	35.5	44.8	2,000	30.1	23.5	36.7	700	48.4	40.5	56.3	900	45.6	33.0	58.3	300	71.4 *	53.5	89.4	200
Race/Ethnicity																				
White	33.3	29.0	37.6	1,600	41.1	34.3	48.0	900	28.5	21.3	35.6	500	27.2	15.4	38.9	200	--			
Hispanic	35.3	30.9	39.8	1,700	24.3	17.8	30.7	500	44.0	36.4	51.6	800	40.9	28.5	53.3	200	55.1	32.4	77.8	100
Asian/Pacific Islander	16.7	13.1	20.4	800	23.3	17.0	29.7	500	12.7	7.4	18.1	200	--				--			
Black	13.5	12.1	14.9	700	9.7	6.9	12.5	200	14.7	11.0	18.3	300	22.1	13.0	31.1	100	22.5 *	7.0	38.0	<100
Born outside the U.S.	26.9	22.9	31.0	1,400	24.2	18.2	30.1	500	27.6	20.9	34.3	500	27.0	15.7	38.3	200	40.5	19.4	61.6	<100
Speaks non-English language at home	20.9	17.3	24.6	1,000	15.8	10.9	20.7	300	24.3	17.9	30.7	500	25.9	14.5	37.3	200	29.4 *	9.9	48.8	<100
Income as a percent of the Federal Poverty Guideline																				
0-100%	28.0	23.7	32.2	1,300	15.7	10.8	20.6	300	38.0	30.0	46.0	600	36.3	23.9	48.8	200	40.2	18.6	61.8	<100
101-200%	25.2	20.9	29.4	1,200	20.9	14.9	26.9	400	26.3	19.0	33.6	400	25.6	14.4	36.7	100	48.9	26.0	71.8	100
> 200%	46.9	42.1	51.7	2,200	63.4	56.5	70.3	1,300	35.7	27.7	43.7	600	38.1	25.6	50.6	200	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Solano County, n=377).
Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA
Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Solano County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			5,100	43.1	38.5	47.7	2,200	48.8	44.1	53.4	2,400
Health Status before Pregnancy												
In good to excellent health	93.3	90.9	95.6	4,700	90.8	87.1	94.5	2,000	94.2 *	90.7	97.7	2,300
Chronic conditions												
Diabetes	3.0	1.4	4.7	200	4.6 *	1.8	7.4	<100	--			
Hypertension	3.4	1.6	5.2	200	3.4 *	0.8	5.9	<100	2.7 *	0.4	5.0	<100
Asthma	14.3	10.8	17.9	700	16.3	10.7	21.8	300	13.3	8.2	18.4	300
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.2	32.7	41.7	1,900	25.9	19.6	32.2	600	45.6	38.8	52.4	1,100
Overweight before pregnancy†	28.7	24.4	33.0	1,400	30.7	23.9	37.4	700	29.5	23.3	35.7	700
Obese before pregnancy†	30.5	26.2	34.9	1,500	30.1	23.7	36.5	600	30.4	23.9	36.9	700
Inadequate weight gain during pregnancy†	22.3	18.5	26.1	1,000	31.4	24.8	38.0	600	15.1	10.5	19.7	300
Excessive weight gain during pregnancy†	46.5	41.8	51.2	2,200	37.7	30.8	44.6	800	53.3	46.4	60.2	1,100
Food insecurity during pregnancy	15.4	11.8	18.9	800	22.5	16.1	28.9	500	10.8	6.7	14.9	300
Nutrition Program Participation												
Participated in WIC during pregnancy	39.6	35.0	44.2	1,900	72.5	66.1	79.0	1,600	10.0	5.9	14.1	200
Received CalFresh (food stamps) during pregnancy	20.2	16.5	23.8	1,000	46.4	39.4	53.4	1,000	--			
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9	6.4	200	7.2 *	2.7	11.7	200	--			
Prenatal depressive symptoms†	12.6	9.7	15.5	600	17.0	11.7	22.3	400	9.9	6.4	13.4	200
Postpartum depressive symptoms†	9.4	6.9	11.8	500	9.5	5.8	13.2	200	8.0	4.9	11.0	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.9	2.4	7.4	200	10.7	5.1	16.4	200	--			
Moved due to problems paying rent or mortgage	7.6	4.8	10.3	400	13.0	7.4	18.6	300	3.6 *	1.2	6.0	<100
Woman or partner lost job	15.1	11.6	18.6	800	26.9	20.2	33.6	600	5.9	2.9	8.9	100
Woman or partner had pay or hours cut back	12.7	9.5	15.8	600	19.9	13.7	26.0	400	8.6	5.2	11.9	200
Became separated or divorced	5.1	3.1	7.0	300	7.8	4.2	11.5	200	3.3 *	1.1	5.6	<100
Had no practical or emotional support	3.6	1.9	5.3	200	4.7 *	1.9	7.4	100	3.2 *	0.7	5.8	<100
Substance Use												
Any smoking, 3 months before pregnancy	12.5	9.5	15.6	600	14.5	9.9	19.2	300	10.7	6.3	15.1	300
Any smoking, 3rd trimester	1.9 *	0.7	3.1	<100	3.7 *	1.1	6.2	<100	--			
Any smoking, postpartum	6.5	4.2	8.8	300	9.6	5.8	13.3	200	4.6 *	1.4	7.8	100
Any binge drinking, 3 months before pregnancy	14.0	10.9	17.2	700	12.0	7.3	16.8	300	15.6	10.9	20.3	400
Any alcohol use, 3rd trimester	5.8	3.8	7.9	300	4.5 *	1.8	7.3	<100	6.9	3.6	10.1	200
Any cannabis use during pregnancy	7.8	5.1	10.4	400	13.2	8.0	18.4	300	4.4 *	1.7	7.1	100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.2	21.1	29.3	1,300	35.6	28.7	42.5	800	17.6	12.5	22.7	400
Unsure of pregnancy intentions	17.0	13.3	20.6	900	23.1	17.3	28.9	500	13.7	8.4	19.0	300
Postpartum birth control use	83.5	80.1	86.9	4,100	82.6	77.2	87.9	1,800	84.6	79.9	89.3	2,000
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.0	79.6	86.3	4,100	78.8	73.3	84.4	1,700	87.7	83.4	92.0	2,100
Infant always or often shared bed	36.3	31.8	40.9	1,800	41.9	35.0	48.9	900	32.9	26.4	39.4	800
Intended to breastfeed, before birth	94.4	92.2	96.7	4,700	94.8 *	91.6	98.0	2,000	93.8	90.2	97.3	2,300
Intended to breastfeed exclusively, before birth	75.9	71.8	80.0	3,800	70.5	63.7	77.2	1,500	81.0	75.8	86.1	2,000
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	87.4	84.2	90.6	4,300	84.9	79.7	90.0	1,800	89.7	85.3	94.1	2,200
Exclusive breastfeeding, 1 month after delivery	53.8	49.0	58.7	2,600	54.6	47.3	61.9	1,100	54.1	47.1	61.1	1,300
Any breastfeeding, 3 months after delivery	72.8	68.1	77.5	2,900	69.6	62.8	76.4	1,200	77.1	70.3	83.8	1,500
Exclusive breastfeeding, 3 months after delivery	38.6	33.5	43.8	1,500	33.4	26.2	40.7	600	43.4	35.7	51.2	800

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.8	81.7	3,900	66.3	59.6	73.0	1,400	85.8	80.8	90.9	2,100
Initiated prenatal care in 1st trimester	92.8	90.1	95.6	4,600	86.4	80.6	92.2	1,800	98.1 *	96.6	99.6	2,300
Received dental care during pregnancy	46.5	41.9	51.1	2,400	36.2	29.3	43.1	800	53.4	46.5	60.2	1,300
Received a Tdap vaccine during pregnancy	74.3	70.2	78.4	3,800	65.5	58.7	72.3	1,400	79.7	74.2	85.1	1,900
Received a flu shot during pregnancy	73.3	69.3	77.4	3,700	70.1	63.7	76.6	1,500	76.2	70.5	81.8	1,900
Had a postpartum medical visit	91.9	89.4	94.5	4,600	89.1	84.8	93.3	1,900	93.7	90.1	97.2	2,300
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.6	26.5	34.7	1,500	70.8	63.9	77.6	1,500	--			
Uninsured	9.9	6.9	12.9	500	19.8	13.8	25.9	400	--			
Private	51.9	47.2	56.5	2,600	8.8	4.2	13.4	200	97.2 *	94.8	99.6	2,400
Had any gaps in insurance during pregnancy	10.6	7.5	13.6	500	16.0	10.7	21.4	300	6.1 *	2.3	10.0	200
Maternal postpartum insurance												
Medi-Cal	40.6	36.1	45.2	2,000	86.6	82.0	91.1	1,800	6.7	3.3	10.1	200
Uninsured	4.8	2.9	6.6	200	10.9	6.7	15.2	200	--			
Private	46.3	41.6	50.9	2,300	1.7 *	0.2	3.3	<100	92.2	88.6	95.8	2,300
Infant health insurance												
Medi-Cal	47.2	42.5	51.9	2,300	94.8	92.2	97.5	2,000	11.8	7.3	16.3	300
Uninsured	1.6 *	0.6	2.6	<100	2.6 *	0.7	4.5	<100	--			
Private	43.5	38.8	48.2	2,200	2.1 *	0.3	3.8	<100	86.0	81.2	90.8	2,100
Maternal Demographics												
Age												
15-19	3.8	1.9	5.6	200	6.7	2.9	10.6	100	--			
20-34	76.0	72.0	80.0	3,800	77.0	71.1	82.9	1,700	73.6	67.6	79.6	1,800
35+	20.3	16.5	24.0	1,000	16.3	11.3	21.3	400	25.2	19.2	31.1	600
First live birth	38.4	33.9	42.9	1,900	30.3	24.1	36.4	700	44.0	37.2	50.7	1,100
Less than high school education (or GED)	10.7	7.9	13.5	500	23.2	17.4	29.1	500	--			
Unmarried	40.2	35.5	44.8	2,000	63.9	57.4	70.4	1,400	24.3	18.2	30.4	600
Race/Ethnicity												
White	33.3	29.0	37.6	1,600	18.3	13.3	23.3	400	43.1	36.2	50.0	1,000
Hispanic	35.3	30.9	39.8	1,700	47.3	40.7	54.0	1,000	26.9	20.5	33.4	600
Asian/Pacific Islander	16.7	13.1	20.4	800	13.6	8.6	18.6	300	19.7	13.9	25.5	500
Black	13.5	12.1	14.9	700	18.9	15.3	22.5	400	9.7	7.0	12.4	200
Born outside the U.S.	26.9	22.9	31.0	1,400	33.6	27.2	39.9	700	20.6	15.2	26.1	500
Speaks non-English language at home	20.9	17.3	24.6	1,000	31.0	24.8	37.2	700	12.8	8.4	17.3	300
Lives in a high poverty neighborhood†	4.6	2.6	6.7	200	8.6	4.5	12.8	200	1.9 *	0.1	3.8	<100
Income as a percent of the Federal Poverty Guideline												
0-100%	28.0	23.7	32.2	1,300	58.8	51.6	66.0	1,200	4.8 *	2.0	7.7	100
101-200%	25.2	20.9	29.4	1,200	35.5	28.4	42.6	700	14.8	9.6	20.0	300
> 200%	46.9	42.1	51.7	2,200	5.7	2.9	8.5	100	80.4	74.7	86.1	1,800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Solano County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,100	35.3	30.9 - 39.8	1,700	13.5	12.1 - 14.9	700	33.3	29.0 - 37.6	1,600	16.7	13.1 - 20.4	800
Health Status before Pregnancy															
In good to excellent health	93.3	90.9 - 95.6	4,700	90.5	85.9 - 95.1	1,600	92.1 *	87.1 - 97.1	600	97.5 *	95.1 - 99.8	1,600	89.7 *	81.5 - 98.0	700
Chronic conditions															
Diabetes	3.0	1.4 - 4.7	200	2.4 *	0.2 - 4.5	<100	--			--			8.9 *	1.1 - 16.8	<100
Hypertension	3.4	1.6 - 5.2	200	3.8 *	0.5 - 7.1	<100	7.3 *	1.8 - 12.7	<100	--			--		
Asthma	14.3	10.8 - 17.9	700	7.0	3.4 - 10.7	100	19.2	11.6 - 26.9	100	17.6	10.4 - 24.7	300	13.4	5.6 - 21.2	100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	37.2	32.7 - 41.7	1,900	30.4	22.9 - 37.9	500	36.5	26.9 - 46.0	200	38.4	30.8 - 46.0	600	44.5	32.3 - 56.7	400
Overweight before pregnancy†	28.7	24.4 - 33.0	1,400	30.5	22.7 - 38.3	500	29.3	20.1 - 38.6	200	21.1	14.9 - 27.4	300	36.1	24.0 - 48.2	300
Obese before pregnancy†	30.5	26.2 - 34.9	1,500	29.1	22.0 - 36.2	500	32.6	23.4 - 41.8	200	31.9	24.0 - 39.8	500	28.1	16.9 - 39.3	200
Inadequate weight gain during pregnancy†	22.3	18.5 - 26.1	1,000	28.0	20.5 - 35.4	500	18.7	11.0 - 26.5	100	19.3	13.2 - 25.5	300	22.5	12.5 - 32.6	200
Excessive weight gain during pregnancy†	46.5	41.8 - 51.2	2,200	37.1	29.2 - 45.0	600	47.2	36.8 - 57.6	300	54.5	46.6 - 62.4	800	48.3	35.8 - 60.9	400
Food insecurity during pregnancy	15.4	11.8 - 18.9	800	14.8	8.6 - 21.0	200	21.0	12.9 - 29.1	100	10.4	6.1 - 14.7	200	18.7	9.1 - 28.2	200
Nutrition Program Participation															
Participated in WIC during pregnancy	39.6	35.0 - 44.2	1,900	57.8	49.4 - 66.2	1,000	50.3	40.2 - 60.4	300	17.7	12.0 - 23.5	300	37.5	25.4 - 49.7	300
Received CalFresh (food stamps) during pregnancy	20.2	16.5 - 23.8	1,000	23.1	16.4 - 29.8	400	45.4	35.4 - 55.3	300	11.1	6.2 - 15.9	200	12.9 *	4.3 - 21.4	100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9 - 6.4	200	2.8 *	0.5 - 5.1	<100	--			--			--		
Prenatal depressive symptoms†	12.6	9.7 - 15.5	600	12.1	7.1 - 17.1	200	21.6	13.6 - 29.7	100	7.0	3.1 - 10.8	100	17.4	8.7 - 26.0	100
Postpartum depressive symptoms†	9.4	6.9 - 11.8	500	9.3	5.0 - 13.7	200	15.2	8.6 - 21.8	<100	7.8	3.8 - 11.8	100	10.8 *	3.6 - 18.1	<100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.9	2.4 - 7.4	200	--			9.2 *	3.6 - 14.9	<100	2.8 *	0.5 - 5.0	<100	--		
Moved due to problems paying rent or mortgage	7.6	4.8 - 10.3	400	7.1 *	2.4 - 11.9	100	9.4 *	3.5 - 15.3	<100	6.5	3.1 - 9.9	100	6.2 *	0.3 - 12.1	<100
Woman or partner lost job	15.1	11.6 - 18.6	800	14.7	8.9 - 20.6	200	23.6	14.6 - 32.5	200	10.2	5.7 - 14.6	200	13.7 *	5.2 - 22.3	100
Woman or partner had pay or hours cut back	12.7	9.5 - 15.8	600	11.0	6.6 - 15.5	200	19.7	11.7 - 27.6	100	10.3	5.7 - 15.0	200	7.9 *	1.4 - 14.4	<100
Became separated or divorced	5.1	3.1 - 7.0	300	5.0 *	2.0 - 8.1	<100	7.8 *	2.7 - 12.8	<100	2.8 *	0.5 - 5.0	<100	--		
Had no practical or emotional support	3.6	1.9 - 5.3	200	4.3 *	1.2 - 7.3	<100	--			3.6 *	0.9 - 6.3	<100	--		
Often experienced racism over her lifetime	14.6	11.3 - 18.0	700	12.6	7.1 - 18.2	200	37.3	27.6 - 46.9	200	5.9 *	2.4 - 9.4	<100	13.1 *	4.5 - 21.7	100
Substance Use															
Any smoking, 3 months before pregnancy	12.5	9.5 - 15.6	600	6.7	2.8 - 10.6	100	16.4	8.5 - 24.3	100	22.9	16.0 - 29.9	400	--		
Any smoking, 3rd trimester	1.9 *	0.7 - 3.1	<100	--			4.5 *	0.6 - 8.5	<100	2.7 *	0.2 - 5.3	<100	--		
Any smoking, postpartum	6.5	4.2 - 8.8	300	3.3 *	0.4 - 6.3	<100	13.7	6.4 - 21.0	<100	8.9	4.2 - 13.5	100	--		
Any binge drinking, 3 months before pregnancy	14.0	10.9 - 17.2	700	17.2	10.7 - 23.7	300	11.2	5.6 - 16.8	<100	17.0	11.2 - 22.9	300	7.6 *	2.1 - 13.1	<100
Any alcohol use, 3rd trimester	5.8	3.8 - 7.9	300	3.3 *	0.9 - 5.8	<100	7.4 *	2.8 - 12.0	<100	6.2 *	2.4 - 10.0	<100	10.6 *	2.7 - 18.4	<100
Any cannabis use during pregnancy	7.8	5.1 - 10.4	400	6.0 *	1.4 - 10.6	100	20.1	11.7 - 28.4	100	4.9 *	1.3 - 8.5	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.2	21.1 - 29.3	1,300	28.3	20.9 - 35.8	500	42.0	32.2 - 51.9	300	17.9	11.8 - 24.1	300	16.0	7.2 - 24.8	100
Unsure of pregnancy intentions	17.0	13.3 - 20.6	900	14.0	8.4 - 19.6	200	15.6	8.4 - 22.8	100	20.2	13.0 - 27.3	300	18.1	8.5 - 27.7	100
Postpartum birth control use	83.5	80.1 - 86.9	4,100	86.9	81.4 - 92.3	1,500	78.5	70.2 - 86.8	500	84.7	79.0 - 90.4	1,300	75.1	64.4 - 85.9	600
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.0	79.6 - 86.3	4,100	87.0	81.6 - 92.4	1,500	68.5	58.9 - 78.1	400	84.1	78.5 - 89.8	1,300	84.5	75.9 - 93.1	700
Infant always or often shared bed	36.3	31.8 - 40.9	1,800	38.7	30.6 - 46.7	600	43.9	33.8 - 54.0	300	23.0	16.3 - 29.6	400	51.4	39.1 - 63.7	400
Intended to breastfeed, before birth	94.4	92.2 - 96.7	4,700	--			93.2 *	88.7 - 97.7	600	93.0 *	88.4 - 97.6	1,500	88.4 *	79.8 - 97.1	700
Intended to breastfeed exclusively, before birth	75.9	71.8 - 80.0	3,800	78.7	72.5 - 85.0	1,300	73.8	65.5 - 82.2	500	81.6	75.3 - 87.9	1,300	63.9	51.8 - 76.0	500
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	87.4	84.2 - 90.6	4,300	89.0	83.6 - 94.5	1,500	87.8	81.4 - 94.2	500	86.0	80.2 - 91.8	1,400	84.2 *	74.5 - 94.0	700
Exclusive breastfeeding, 1 month after delivery	53.8	49.0 - 58.7	2,600	54.3	45.8 - 62.9	900	57.0	46.9 - 67.0	300	58.3	50.1 - 66.4	900	43.1	30.7 - 55.5	300
Any breastfeeding, 3 months after delivery	72.8	68.1 - 77.5	2,900	72.4	63.8 - 81.0	900	62.5	51.9 - 73.1	300	74.7	66.6 - 82.8	900	73.1	60.9 - 85.3	500
Exclusive breastfeeding, 3 months after delivery	38.6	33.5 - 43.8	1,500	32.0	23.4 - 40.6	400	30.9	20.4 - 41.4	200	50.8	41.3 - 60.3	600	33.0	20.5 - 45.5	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	73.8 - 81.7	3,900	75.1	68.0 - 82.3	1,300	81.7	73.5 - 90.0	500	80.1	74.0 - 86.3	1,300	79.9	70.3 - 89.5	700
Initiated prenatal care in 1st trimester	92.8	90.1 - 95.6	4,600	92.8	88.7 - 97.0	1,600	94.9 *	90.2 - 99.6	600	96.2 *	93.6 - 98.9	1,600	90.6 *	83.8 - 97.4	700
Received dental care during pregnancy	46.5	41.9 - 51.1	2,400	39.2	31.1 - 47.3	700	48.9	39.0 - 58.8	300	53.2	45.1 - 61.2	900	39.4	27.7 - 51.1	300
Received a Tdap vaccine during pregnancy	74.3	70.2 - 78.4	3,800	73.4	66.0 - 80.8	1,300	68.3	58.9 - 77.7	400	79.8	73.5 - 86.1	1,300	70.8	59.3 - 82.2	600
Received a flu shot during pregnancy	73.3	69.3 - 77.4	3,700	73.7	66.3 - 81.1	1,300	59.8	50.1 - 69.4	400	77.1	70.5 - 83.7	1,200	73.5	62.5 - 84.4	600
Had a postpartum medical visit	91.9	89.4 - 94.5	4,600	92.1	88.4 - 95.8	1,600	94.2 *	89.3 - 99.1	600	94.9 *	91.6 - 98.2	1,500	82.2 *	71.7 - 92.8	700
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	30.6	26.5 - 34.7	1,500	41.4	33.5 - 49.4	700	47.3	37.4 - 57.1	300	17.6	11.8 - 23.3	300	26.5	15.7 - 37.2	200
Uninsured	9.9	6.9 - 12.9	500	13.1	8.1 - 18.1	200	5.7 *	0.9 - 10.4	<100	7.3	3.2 - 11.5	100	6.4 *	0.8 - 12.0	<100
Private	51.9	47.2 - 56.5	2,600	41.5	33.2 - 49.8	700	41.5	31.8 - 51.2	300	64.1	56.5 - 71.7	1,000	57.0	44.9 - 69.2	500
Prenatal insurance															
Medi-Cal	43.1	38.5 - 47.7	2,200	57.9	49.7 - 66.1	1,000	60.5	51.0 - 69.9	400	23.9	17.5 - 30.4	400	34.9	23.3 - 46.5	300
Uninsured	--			--			--			--			--		
Private	48.8	44.1 - 53.4	2,400	36.9	28.8 - 45.1	600	35.0	25.8 - 44.2	200	63.4	55.8 - 71.0	1,000	56.7	44.5 - 68.8	500
Had any gaps in insurance during pregnancy	10.6	7.5 - 13.6	500	13.4	7.2 - 19.6	200	7.6 *	2.4 - 12.8	<100	7.6	3.5 - 11.8	100	12.9 *	4.3 - 21.5	100
Maternal postpartum insurance															
Medi-Cal	40.6	36.1 - 45.2	2,000	51.9	43.6 - 60.2	900	59.0	49.4 - 68.6	400	24.4	17.8 - 31.0	400	33.0	21.7 - 44.4	300
Uninsured	4.8	2.9 - 6.6	200	8.7	4.5 - 12.8	100	--			--			--		
Private	46.3	41.6 - 50.9	2,300	34.0	25.8 - 42.1	600	34.4	25.3 - 43.6	200	60.9	53.1 - 68.6	1,000	52.3	40.0 - 64.6	400
Infant health insurance															
Medi-Cal	47.2	42.5 - 51.9	2,300	63.1	54.9 - 71.2	1,100	58.2	48.4 - 68.0	400	29.1	21.8 - 36.3	500	41.3	29.3 - 53.4	300
Uninsured	1.6 *	0.6 - 2.6	<100	2.2 *	0.2 - 4.2	<100	--			--			--		
Private	43.5	38.8 - 48.2	2,200	31.0	23.0 - 39.0	500	35.0	25.5 - 44.4	200	55.8	47.8 - 63.8	900	51.2	38.9 - 63.4	400
Maternal Demographics															
Age															
15-19	3.8	1.9 - 5.6	200	5.8 *	1.5 - 10.2	<100	7.2 *	1.9 - 12.4	<100	--			--		
20-34	76.0	72.0 - 80.0	3,800	79.4	72.5 - 86.4	1,400	77.6	69.6 - 85.6	500	78.2	72.0 - 84.5	1,300	59.1	46.8 - 71.5	500
35+	20.3	16.5 - 24.0	1,000	14.7	8.7 - 20.7	300	15.3	8.7 - 21.8	100	19.3	13.5 - 25.1	300	40.9	28.5 - 53.2	300
First live birth	38.4	33.9 - 42.9	1,900	39.6	31.6 - 47.5	700	38.0	28.4 - 47.7	200	42.8	34.8 - 50.7	700	26.4	16.4 - 36.4	200
Less than high school education (or GED)	10.7	7.9 - 13.5	500	21.9	15.3 - 28.4	400	8.8 *	2.1 - 15.4	<100	5.7 *	2.0 - 9.4	<100	--		
Unmarried	40.2	35.5 - 44.8	2,000	50.1	41.9 - 58.4	900	62.4	52.7 - 72.0	400	24.7	17.9 - 31.6	400	31.6	20.1 - 43.1	300
Born outside the U.S.	26.9	22.9 - 31.0	1,400	42.5	34.6 - 50.4	700	--			5.9	2.7 - 9.2	<100	58.2	46.1 - 70.3	500
Speaks non-English language at home	20.9	17.3 - 24.6	1,000	38.4	30.7 - 46.1	600	--			4.3 *	1.0 - 7.6	<100	37.2	25.4 - 49.0	300
Lives in a high poverty neighborhood†	4.6	2.6 - 6.7	200	7.3 *	2.7 - 11.8	100	7.6 *	2.4 - 12.9	<100	--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	28.0	23.7 - 32.2	1,300	35.2	27.1 - 43.2	500	46.5	36.1 - 56.9	300	17.4	11.4 - 23.3	300	20.4	10.1 - 30.7	200
101-200%	25.2	20.9 - 29.4	1,200	34.5	25.9 - 43.2	500	20.9	13.1 - 28.7	100	18.2	12.0 - 24.4	300	24.1	13.7 - 34.5	200
> 200%	46.9	42.1 - 51.7	2,200	30.3	22.2 - 38.5	500	32.6	23.0 - 42.2	200	64.4	56.7 - 72.0	1,000	55.5	43.0 - 68.0	400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Solano County, n=377).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Solano County was 577. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Solano County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		5,100	38.4	33.9 - 42.9	1,900	61.6	57.1 - 66.1	3,100
Health Status before Pregnancy									
In good to excellent health	93.3	90.9 - 95.6	4,700	95.1 *	91.7 - 98.5	1,800	92.1	89.0 - 95.2	2,900
Chronic conditions									
Diabetes	3.0	1.4 - 4.7	200	1.9 *	0.2 - 3.7	<100	3.7 *	1.3 - 6.1	100
Hypertension	3.4	1.6 - 5.2	200	3.4 *	0.3 - 6.5	<100	3.4 *	1.2 - 5.5	100
Asthma	14.3	10.8 - 17.9	700	13.1	8.2 - 18.0	300	15.1	10.3 - 20.0	500
Nutrition and Weight									
Daily folic acid use, month before pregnancy	37.2	32.7 - 41.7	1,900	42.0	34.9 - 49.0	800	34.1	28.3 - 40.0	1,100
Overweight before pregnancy†	28.7	24.4 - 33.0	1,400	25.7	19.4 - 32.0	500	30.5	24.8 - 36.2	900
Obese before pregnancy†	30.5	26.2 - 34.9	1,500	22.6	16.4 - 28.8	400	35.4	29.6 - 41.3	1,100
Inadequate weight gain during pregnancy†	22.3	18.5 - 26.1	1,000	21.3	15.2 - 27.5	400	22.9	18.0 - 27.8	700
Excessive weight gain during pregnancy†	46.5	41.8 - 51.2	2,200	54.1	46.7 - 61.4	1,000	41.9	35.8 - 48.0	1,200
Food insecurity during pregnancy	15.4	11.8 - 18.9	800	18.0	12.3 - 23.7	300	13.7	9.2 - 18.1	400
Nutrition Program Participation									
Participated in WIC during pregnancy	39.6	35.0 - 44.2	1,900	37.1	30.1 - 44.2	700	41.1	35.1 - 47.1	1,200
Received CalFresh (food stamps) during pregnancy	20.2	16.5 - 23.8	1,000	14.7	10.1 - 19.3	300	23.6	18.4 - 28.9	700
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	4.2	1.9 - 6.4	200	3.4 *	0.8 - 6.1	<100	4.6 *	1.4 - 7.8	100
Prenatal depressive symptoms†	12.6	9.7 - 15.5	600	12.0	7.8 - 16.2	200	13.0	9.1 - 16.9	400
Postpartum depressive symptoms†	9.4	6.9 - 11.8	500	11.3	7.2 - 15.4	200	8.2	5.1 - 11.2	300
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.9	2.4 - 7.4	200	5.4 *	1.6 - 9.1	100	4.6 *	1.2 - 7.9	100
Moved due to problems paying rent or mortgage	7.6	4.8 - 10.3	400	9.1	4.5 - 13.6	200	6.6	3.1 - 10.1	200
Woman or partner lost job	15.1	11.6 - 18.6	800	17.7	12.0 - 23.4	300	13.5	9.1 - 17.9	400
Woman or partner had pay or hours cut back	12.7	9.5 - 15.8	600	11.3	7.3 - 15.3	200	13.5	9.0 - 18.0	400
Became separated or divorced	5.1	3.1 - 7.0	300	5.5	2.4 - 8.5	100	4.8	2.4 - 7.3	100
Had no practical or emotional support	3.6	1.9 - 5.3	200	3.2 *	0.9 - 5.5	<100	3.8 *	1.4 - 6.1	100
Substance Use									
Any smoking, 3 months before pregnancy	12.5	9.5 - 15.6	600	15.4	9.8 - 20.9	300	10.7	7.2 - 14.3	300
Any smoking, 3rd trimester	1.9 *	0.7 - 3.1	<100	--			2.4 *	0.6 - 4.2	<100
Any smoking, postpartum	6.5	4.2 - 8.8	300	7.2	3.3 - 11.1	100	6.1	3.3 - 8.9	200
Any binge drinking, 3 months before pregnancy	14.0	10.9 - 17.2	700	17.4	12.3 - 22.5	300	12.0	7.9 - 16.0	400
Any alcohol use, 3rd trimester	5.8	3.8 - 7.9	300	5.2 *	2.1 - 8.3	100	6.2	3.5 - 9.0	200
Any cannabis use during pregnancy	7.8	5.1 - 10.4	400	9.9	5.2 - 14.7	200	6.4	3.4 - 9.5	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	25.2	21.1 - 29.3	1,300	25.2	18.6 - 31.8	500	25.2	20.0 - 30.4	800
Unsure of pregnancy intentions	17.0	13.3 - 20.6	900	13.5	8.6 - 18.4	300	19.2	14.1 - 24.2	600
Postpartum birth control use	83.5	80.1 - 86.9	4,100	80.1	74.6 - 85.6	1,500	85.6	81.4 - 89.9	2,600
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.0	79.6 - 86.3	4,100	82.1	76.7 - 87.4	1,600	83.5	79.3 - 87.8	2,500
Infant always or often shared bed	36.3	31.8 - 40.9	1,800	42.0	34.8 - 49.2	800	32.8	27.1 - 38.5	1,000
Intended to breastfeed, before birth	94.4	92.2 - 96.7	4,700	96.9 *	94.8 - 99.0	1,800	92.9	89.5 - 96.2	2,800
Intended to breastfeed exclusively, before birth	75.9	71.8 - 80.0	3,800	84.4	79.5 - 89.4	1,600	70.6	64.9 - 76.3	2,100
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	87.4	84.2 - 90.6	4,300	86.7	81.3 - 92.2	1,600	87.8	83.9 - 91.7	2,600
Exclusive breastfeeding, 1 month after delivery	53.8	49.0 - 58.7	2,600	49.4	42.0 - 56.9	900	56.6	50.4 - 62.9	1,700
Any breastfeeding, 3 months after delivery	72.8	68.1 - 77.5	2,900	71.3	63.5 - 79.1	1,100	73.7	67.9 - 79.5	1,800
Exclusive breastfeeding, 3 months after delivery	38.6	33.5 - 43.8	1,500	35.6	27.7 - 43.5	500	40.5	33.8 - 47.1	1,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Solano County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Solano County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	73.8	81.7	3,900	77.3	71.3	83.2	1,500	78.1	72.8	83.4	2,400
Initiated prenatal care in 1st trimester	92.8	90.1	95.6	4,600	96.9 *	94.6	99.2	1,800	90.3	86.1	94.4	2,800
Received dental care during pregnancy	46.5	41.9	51.1	2,400	44.5	37.3	51.7	900	47.7	41.7	53.8	1,500
Received a Tdap vaccine during pregnancy	74.3	70.2	78.4	3,800	81.3	75.6	87.0	1,600	70.0	64.4	75.6	2,200
Received a flu shot during pregnancy	73.3	69.3	77.4	3,700	75.5	69.3	81.6	1,500	72.0	66.6	77.4	2,200
Had a postpartum medical visit	91.9	89.4	94.5	4,600	94.8	92.0	97.7	1,800	90.1	86.4	93.8	2,800
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	30.6	26.5	34.7	1,500	19.9	14.3	25.4	400	37.3	31.6	43.0	1,200
Uninsured	9.9	6.9	12.9	500	11.4	6.9	15.9	200	9.0	5.0	12.9	300
Private	51.9	47.2	56.5	2,600	59.3	52.3	66.3	1,100	47.3	41.2	53.4	1,500
Prenatal insurance												
Medi-Cal	43.1	38.5	47.7	2,200	33.9	27.3	40.6	700	48.8	42.7	54.9	1,500
Uninsured	--				--				--			
Private	48.8	44.1	53.4	2,400	55.8	48.7	62.9	1,100	44.4	38.3	50.4	1,400
Had any gaps in insurance during pregnancy	10.6	7.5	13.6	500	12.3	6.6	17.9	200	9.5	6.0	13.0	300
Maternal postpartum insurance												
Medi-Cal	40.6	36.1	45.2	2,000	36.4	29.6	43.2	700	43.3	37.2	49.3	1,300
Uninsured	4.8	2.9	6.6	200	2.7 *	0.7	4.7	<100	6.0	3.3	8.8	200
Private	46.3	41.6	50.9	2,300	50.7	43.5	58.0	1,000	43.5	37.4	49.5	1,300
Infant health insurance												
Medi-Cal	47.2	42.5	51.9	2,300	42.6	35.4	49.8	800	50.1	44.0	56.2	1,500
Uninsured	1.6 *	0.6	2.6	<100	--				1.7 *	0.4	3.0	<100
Private	43.5	38.8	48.2	2,200	45.8	38.5	53.1	900	42.0	36.0	48.1	1,300
Maternal Demographics												
Age												
15-19	3.8	1.9	5.6	200	8.6	4.1	13.1	200	--			
20-34	76.0	72.0	80.0	3,800	82.8	77.3	88.4	1,600	71.7	66.2	77.1	2,200
35+	20.3	16.5	24.0	1,000	8.5	4.8	12.3	200	27.6	22.2	33.0	900
Less than high school education (or GED)	10.7	7.9	13.5	500	8.1	4.4	11.8	200	12.3	8.4	16.2	400
Unmarried	40.2	35.5	44.8	2,000	42.8	35.6	50.0	800	38.5	32.5	44.6	1,200
Race/Ethnicity												
White	33.3	29.0	37.6	1,600	37.2	30.1	44.2	700	30.9	25.4	36.5	900
Hispanic	35.3	30.9	39.8	1,700	36.5	29.3	43.7	700	34.6	28.8	40.4	1,000
Asian/Pacific Islander	16.7	13.1	20.4	800	11.5	7.0	16.1	200	20.0	14.8	25.2	600
Black	13.5	12.1	14.9	700	13.4	9.7	17.1	200	13.6	11.1	16.0	400
Born outside the U.S.	26.9	22.9	31.0	1,400	20.1	14.7	25.4	400	31.2	25.6	36.7	1,000
Speaks non-English language at home	20.9	17.3	24.6	1,000	15.0	10.2	19.8	300	24.6	19.5	29.7	800
Lives in a high poverty neighborhood†	4.6	2.6	6.7	200	4.7 *	0.8	8.7	<100	4.6	2.4	6.8	100
Income as a percent of the Federal Poverty Guideline												
0-100%	28.0	23.7	32.2	1,300	23.7	17.7	29.7	400	30.5	24.8	36.2	900
101-200%	25.2	20.9	29.4	1,200	26.4	19.1	33.8	500	24.4	19.3	29.6	700
> 200%	46.9	42.1	51.7	2,200	49.8	42.2	57.5	900	45.1	38.9	51.3	1,300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

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MIHA Data Snapshot, Sonoma County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	2.9	1.4 - 4.4	100	72.1	67.9 - 76.3	3,300	25.0	21.0 - 29.0	1,200
Health Status before Pregnancy												
In good to excellent health	95.8	94.1 - 97.6	4,400	--			95.3	93.1 - 97.6	3,200	--		
Chronic conditions												
Diabetes	3.8	1.8 - 5.8	200	--			2.9	1.2 - 4.5	<100	7.0 *	0.6 - 13.4	<100
Hypertension	2.3	1.1 - 3.6	100	--			2.0 *	0.5 - 3.4	<100	3.7 *	0.7 - 6.7	<100
Asthma	10.9	7.9 - 13.9	500	--			10.0	6.6 - 13.4	300	13.0	6.6 - 19.5	100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	--			38.1	32.7 - 43.5	1,300	54.5	45.4 - 63.6	600
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	--			28.3	23.2 - 33.4	900	33.7	24.7 - 42.7	400
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	--			26.4	20.9 - 31.9	900	23.2	15.3 - 31.0	300
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	--			16.7	12.8 - 20.6	500	16.3	9.9 - 22.7	200
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	48.3	21.6 - 75.0	<100	46.9	41.3 - 52.5	1,400	44.1	35.4 - 52.8	500
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	--			14.2	9.8 - 18.6	500	8.2 *	2.5 - 13.9	<100
Nutrition Program Participation												
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	57.9 *	31.3 - 84.5	<100	32.5	27.2 - 37.9	1,100	30.6	21.3 - 39.9	300
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	--			14.8	10.3 - 19.4	500	13.5	7.4 - 19.5	200
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	--			6.6	2.8 - 10.3	200	--		
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	--			14.5	9.5 - 19.5	500	6.6 *	2.3 - 10.9	<100
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	--			9.7	6.4 - 13.0	300	4.3 *	0.9 - 7.7	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	--			3.3 *	1.0 - 5.5	100	--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	--			7.9	4.2 - 11.6	300	--		
Woman or partner lost job	11.5	8.3 - 14.7	500	--			12.5	8.6 - 16.4	400	8.2 *	3.0 - 13.5	<100
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	--			8.5	5.5 - 11.6	300	9.1	3.9 - 14.3	100
Became separated or divorced	4.8	2.6 - 6.9	200	--			5.1	2.4 - 7.8	200	3.3 *	0.4 - 6.1	<100
Had no practical or emotional support	3.1	1.3 - 4.9	100	--			3.5 *	1.1 - 5.9	100	2.2 *	0.3 - 4.1	<100
Substance Use												
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	--			10.0	6.3 - 13.7	300	7.2	3.2 - 11.2	<100
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			1.0 *	0.1 - 2.0	<100	--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	--			2.8 *	0.7 - 4.9	<100	--		
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	--			22.2	17.5 - 26.9	700	13.6	7.4 - 19.8	200
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	--			8.2	5.4 - 11.0	300	11.9	6.6 - 17.1	100
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	--			7.3	4.0 - 10.6	200	4.1 *	0.8 - 7.3	<100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	49.6	23.5 - 75.7	<100	29.2	23.5 - 34.8	1,000	10.1	5.3 - 14.9	100
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	27.9 *	5.5 - 50.3	<100	10.9	7.3 - 14.5	400	11.8	6.4 - 17.2	100
Postpartum birth control use	85.0	81.5 - 88.5	3,800	--			87.9	84.1 - 91.7	2,800	75.6	67.4 - 83.8	800
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	71.2 *	48.3 - 94.1	<100	89.6	86.3 - 93.0	3,000	89.0	84.0 - 94.0	1,000
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	59.8 *	34.6 - 85.1	<100	36.6	31.2 - 42.0	1,200	35.6	27.0 - 44.2	400
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	--			98.0 *	96.6 - 99.4	3,200	96.5 *	93.5 - 99.6	1,000
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	62.0 *	37.0 - 86.9	<100	84.1	80.2 - 88.1	2,800	79.9	72.9 - 86.9	900
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	--			96.1	94.3 - 98.0	3,200	93.6 *	89.6 - 97.5	1,000
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	69.0 *	47.0 - 91.1	<100	67.3	61.5 - 73.2	2,100	59.6	50.4 - 68.7	600
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	54.4	27.6 - 81.2	<100	85.0	79.5 - 90.5	2,200	88.6	82.2 - 95.0	700
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	--			54.0	47.1 - 60.8	1,300	55.5	45.1 - 66.0	400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	83.9	80.4	87.3	3,900	73.2 *	48.6	97.9	<100	82.4	78.1	86.7	2,700	89.4	84.3	94.4	1,000
Initiated prenatal care in 1st trimester	95.1	93.0	97.2	4,300	--				94.6	92.0	97.2	3,100	--			
Received dental care during pregnancy	66.6	62.2	71.1	3,100	54.2	28.2	80.2	<100	65.0	59.6	70.4	2,200	72.9	64.9	80.8	800
Received a Tdap vaccine during pregnancy	72.1	67.6	76.5	3,300	47.2	21.1	73.2	<100	72.4	67.1	77.7	2,400	73.9	65.6	82.3	800
Received a flu shot during pregnancy	71.2	67.0	75.4	3,300	71.7 *	46.8	96.6	<100	71.1	66.1	76.1	2,400	71.5	63.8	79.3	800
Had a postpartum medical visit	94.4	92.0	96.8	4,300	--				93.6	90.5	96.7	3,100	97.2 *	94.5	99.8	1,100
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	27.1	22.7	31.5	1,200	65.1 *	39.0	91.2	<100	27.3	22.0	32.6	900	22.0	14.4	29.7	200
Uninsured	12.9	9.6	16.1	600	--				13.1	9.1	17.0	400	12.2	6.3	18.0	100
Private	58.2	53.5	63.0	2,700	--				57.4	51.7	63.1	1,900	65.0	56.4	73.7	700
Prenatal insurance																
Medi-Cal	43.6	38.8	48.4	2,000	--				44.0	38.3	49.7	1,500	36.1	27.3	44.9	400
Uninsured	--				--				--				--			
Private	53.5	48.7	58.3	2,400	--				52.7	47.0	58.5	1,700	61.9	53.1	70.8	700
Had any gaps in insurance during pregnancy	8.4	5.7	11.0	400	--				8.3	5.3	11.3	300	7.9 *	2.2	13.5	<100
Maternal postpartum insurance																
Medi-Cal	34.3	29.6	38.9	1,500	--				34.4	28.9	39.9	1,100	26.6	18.0	35.2	300
Uninsured	8.9	6.0	11.9	400	--				9.0	5.4	12.5	300	9.5	4.0	15.1	100
Private	55.0	50.2	59.8	2,500	--				54.5	48.8	60.3	1,800	62.6	53.4	71.8	700
Infant health insurance																
Medi-Cal	49.5	44.7	54.3	2,200	--				50.1	44.4	55.9	1,700	41.8	32.5	51.1	500
Uninsured	1.3 *	0.3	2.4	<100	--				--				--			
Private	47.5	42.7	52.2	2,200	--				47.4	41.7	53.1	1,600	53.8	44.6	63.0	600
Maternal Demographics																
First live birth	40.7	36.0	45.4	1,900	--				44.7	39.0	50.4	1,500	22.4	14.4	30.4	300
Less than high school education (or GED)	12.6	9.2	16.1	600	29.9 *	5.6	54.2	<100	11.1	7.1	15.2	400	15.1	8.2	22.0	200
Unmarried	32.3	27.9	36.7	1,500	--				30.9	25.7	36.2	1,000	28.1	20.0	36.2	300
Race/Ethnicity																
White	50.0	44.9	55.2	2,000	--				50.9	44.7	57.0	1,500	52.3	42.1	62.5	500
Hispanic	42.4	37.3	47.6	1,700	--				42.0	35.9	48.1	1,200	38.1	27.9	48.2	400
Asian/Pacific Islander	5.3	3.4	7.2	200	--				4.5	2.4	6.6	100	8.3	3.7	12.9	<100
Black	1.7 *	0.3	3.1	<100	--				2.1 *	0.2	4.0	<100	--			
Born outside the U.S.	31.0	26.6	35.3	1,400	--				28.4	23.4	33.4	900	39.3	30.2	48.4	500
Speaks non-English language at home	24.4	20.4	28.4	1,100	23.3 *	2.9	43.6	<100	23.7	18.9	28.4	800	26.7	18.8	34.6	300
Lives in a high poverty neighborhood†	--				--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Sonoma County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	12.6	9.2 - 16.1	600	16.7	13.2 - 20.1	800	35.1	30.3 - 39.8	1,600	35.7	31.2 - 40.1	1,600
Health Status before Pregnancy															
In good to excellent health	95.8	94.1 - 97.6	4,400	92.0 *	84.6 - 99.5	500	92.0 *	86.3 - 97.6	700	97.4 *	95.0 - 99.7	1,600	97.9 *	96.0 - 99.8	1,600
Chronic conditions															
Diabetes	3.8	1.8 - 5.8	200	7.7 *	0.7 - 14.7	<100	--			2.8 *	0.5 - 5.1	<100	--		
Hypertension	2.3	1.1 - 3.6	100	--			--			2.9 *	0.4 - 5.3	<100	--		
Asthma	10.9	7.9 - 13.9	500	19.6 *	7.3 - 31.9	100	5.4 *	0.4 - 10.5	<100	10.7	5.5 - 16.0	200	10.6	6.2 - 15.1	200
Nutrition and Weight															
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	32.4	18.8 - 45.9	200	31.1	21.0 - 41.2	200	37.9	29.6 - 46.2	600	52.1	44.7 - 59.4	800
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	25.5	13.6 - 37.4	100	40.6	29.0 - 52.2	300	27.9	20.3 - 35.4	400	27.5	20.7 - 34.3	400
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	32.5	17.5 - 47.5	200	24.2	15.1 - 33.2	200	31.2	22.5 - 39.8	500	15.3	9.5 - 21.1	200
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	17.8 *	6.5 - 29.2	<100	15.1	7.7 - 22.4	100	18.7	12.5 - 24.9	300	15.3	10.3 - 20.2	200
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	46.6	32.1 - 61.1	200	56.2	44.8 - 67.5	400	46.6	38.2 - 55.0	700	40.4	33.5 - 47.3	600
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	38.5	22.9 - 54.1	200	17.2	9.1 - 25.3	100	14.3	8.0 - 20.5	200	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	71.2	57.7 - 84.8	400	65.8	55.3 - 76.4	500	28.2	20.7 - 35.6	400	7.7 *	2.8 - 12.7	100
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	40.8	25.7 - 56.0	200	20.3	11.6 - 29.0	200	13.6	7.5 - 19.7	200	2.9 *	0.7 - 5.1	<100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	15.5 *	2.5 - 28.5	<100	9.9 *	1.5 - 18.4	<100	9.2 *	2.4 - 16.0	100	--		
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	20.0 *	5.6 - 34.4	100	12.8	5.6 - 20.0	<100	16.1	8.0 - 24.3	300	6.2	2.8 - 9.7	100
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	8.2 *	1.8 - 14.5	<100	6.1 *	1.5 - 10.8	<100	10.6	5.2 - 15.9	200	7.8	3.6 - 11.9	100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	--			5.8 *	0.7 - 10.8	<100	--			--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	--			11.3 *	3.6 - 18.9	<100	7.7 *	2.6 - 12.8	100	2.9 *	0.5 - 5.2	<100
Woman or partner lost job	11.5	8.3 - 14.7	500	8.7 *	2.2 - 15.2	<100	13.8	6.4 - 21.2	<100	16.7	9.8 - 23.6	300	6.7 *	2.8 - 10.7	100
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	10.0 *	2.4 - 17.7	<100	8.0 *	1.9 - 14.1	<100	11.2	5.9 - 16.5	200	8.6	4.4 - 12.9	100
Became separated or divorced	4.8	2.6 - 6.9	200	--			10.4	4.6 - 16.2	<100	6.1 *	1.2 - 11.1	<100	--		
Had no practical or emotional support	3.1	1.3 - 4.9	100	6.6 *	0.8 - 12.4	<100	4.1 *	0.6 - 7.7	<100	4.6 *	0.1 - 9.0	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	15.7 *	3.9 - 27.4	<100	9.4 *	3.4 - 15.4	<100	10.9	5.1 - 16.6	200	5.4	2.5 - 8.3	<100
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			--			--			--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	--			6.7 *	0.8 - 12.6	<100	--			--		
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	18.0 *	5.6 - 30.4	<100	7.7 *	2.3 - 13.1	<100	26.0	18.6 - 33.5	400	19.5	13.8 - 25.1	300
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	--			9.3 *	2.5 - 16.1	<100	7.3	3.6 - 10.9	100	13.3	8.6 - 17.9	200
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	--			11.1 *	4.3 - 17.9	<100	4.4 *	1.4 - 7.4	<100	4.2 *	1.2 - 7.2	<100
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	28.1	15.3 - 41.0	200	34.0	22.8 - 45.2	300	33.7	24.7 - 42.6	500	11.6	7.2 - 16.0	200
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	18.6 *	6.8 - 30.3	100	19.1	10.2 - 28.0	100	10.5	5.4 - 15.7	200	7.1	3.8 - 10.4	100
Postpartum birth control use	85.0	81.5 - 88.5	3,800	93.1 *	86.8 - 99.4	500	89.8 *	83.2 - 96.3	700	83.5	77.0 - 90.0	1,300	81.7	75.5 - 87.9	1,300
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	86.3 *	77.3 - 95.4	500	84.4	76.5 - 92.4	600	89.7	84.7 - 94.6	1,400	92.5	88.8 - 96.2	1,500
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	36.9	22.9 - 51.0	200	50.4	39.2 - 61.7	400	40.9	32.5 - 49.2	700	27.2	20.8 - 33.5	400
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	--			--			97.8 *	95.8 - 99.7	1,600	97.0 *	94.5 - 99.5	1,500
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	65.0	51.8 - 78.2	400	81.3	73.2 - 89.3	600	83.0	77.1 - 89.0	1,300	89.4	84.8 - 94.0	1,400
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	93.8 *	88.3 - 99.2	500	94.2 *	90.0 - 98.4	700	97.2 *	95.1 - 99.3	1,500	94.6 *	91.3 - 97.9	1,500
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	49.7	34.4 - 64.9	300	73.2	63.2 - 83.1	500	64.9	56.1 - 73.7	1,000	69.0	61.8 - 76.2	1,000
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	80.6	69.5 - 91.7	400	81.6	72.5 - 90.7	500	81.9	72.7 - 91.2	1,100	92.6 *	88.1 - 97.0	1,000
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	34.3	20.0 - 48.6	200	58.0	45.8 - 70.2	300	50.5	40.7 - 60.3	600	66.0	57.3 - 74.7	600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	83.9	80.4 - 87.3	3,900	82.9	73.0 - 92.8	500	78.9	69.8 - 88.0	600	82.1	75.4 - 88.7	1,300	87.9	83.3 - 92.5	1,400
Initiated prenatal care in 1st trimester	95.1	93.0 - 97.2	4,300	91.1 *	82.3 - 99.8	500	91.4 *	85.3 - 97.5	700	94.4 *	90.4 - 98.4	1,500	--		
Received dental care during pregnancy	66.6	62.2 - 71.1	3,100	73.2	59.9 - 86.6	400	70.2	60.2 - 80.1	500	54.4	45.8 - 63.0	900	75.0	69.0 - 81.0	1,200
Received a Tdap vaccine during pregnancy	72.1	67.6 - 76.5	3,300	63.7	48.4 - 79.1	400	77.9	68.8 - 86.9	600	68.6	60.5 - 76.7	1,100	75.7	69.2 - 82.2	1,200
Received a flu shot during pregnancy	71.2	67.0 - 75.4	3,300	75.1	63.2 - 86.9	400	77.6	68.4 - 86.8	600	65.0	56.9 - 73.2	1,000	72.9	66.8 - 79.1	1,200
Had a postpartum medical visit	94.4	92.0 - 96.8	4,300	--			86.3 *	76.7 - 95.8	700	93.8 *	89.6 - 98.0	1,500	98.0 *	96.0 - 99.9	1,600
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	27.1	22.7 - 31.5	1,200	55.8	41.2 - 70.3	300	43.8	32.7 - 54.9	300	26.1	18.4 - 33.8	400	9.7	5.5 - 14.0	200
Uninsured	12.9	9.6 - 16.1	600	27.6	14.4 - 40.8	200	23.3	13.3 - 33.4	200	9.7	4.9 - 14.4	200	5.6 *	2.3 - 8.8	<100
Private	58.2	53.5 - 63.0	2,700	16.7	6.9 - 26.4	<100	29.7	19.8 - 39.5	200	61.6	53.3 - 69.9	1,000	83.8	78.5 - 89.1	1,300
Prenatal insurance															
Medi-Cal	43.6	38.8 - 48.4	2,000	88.3 *	79.9 - 96.7	500	74.4	65.5 - 83.4	600	39.0	30.5 - 47.5	600	17.6	12.2 - 23.0	300
Uninsured	--			--			--			--			--		
Private	53.5	48.7 - 58.3	2,400	11.7 *	3.3 - 20.1	<100	21.4	13.1 - 29.7	200	55.7	47.1 - 64.3	900	81.5	76.0 - 87.0	1,300
Had any gaps in insurance during pregnancy	8.4	5.7 - 11.0	400	11.2 *	0.6 - 21.9	<100	13.9	6.1 - 21.7	100	8.1	4.0 - 12.3	100	5.1 *	1.8 - 8.3	<100
Maternal postpartum insurance															
Medi-Cal	34.3	29.6 - 38.9	1,500	63.0	48.3 - 77.7	300	59.3	48.1 - 70.6	400	32.6	24.5 - 40.7	500	15.3	9.4 - 21.3	200
Uninsured	8.9	6.0 - 11.9	400	24.0	10.4 - 37.7	100	18.2	8.6 - 27.8	100	5.4 *	1.6 - 9.2	<100	2.7 *	0.6 - 4.8	<100
Private	55.0	50.2 - 59.8	2,500	13.0 *	4.1 - 21.8	<100	20.6	11.7 - 29.5	200	58.4	49.8 - 66.9	900	81.3	75.1 - 87.5	1,300
Infant health insurance															
Medi-Cal	49.5	44.7 - 54.3	2,200	90.5 *	83.1 - 97.8	500	82.1	74.0 - 90.1	600	46.8	38.1 - 55.4	700	21.5	15.0 - 28.0	300
Uninsured	1.3 *	0.3 - 2.4	<100	--			--			--			--		
Private	47.5	42.7 - 52.2	2,200	7.5 *	1.1 - 13.8	<100	12.2	5.5 - 18.8	<100	49.5	40.8 - 58.2	800	77.1	70.6 - 83.7	1,200
Maternal Demographics															
First live birth	40.7	36.0 - 45.4	1,900	15.2 *	5.8 - 24.7	<100	38.9	27.8 - 50.0	300	41.4	32.7 - 50.2	700	50.6	43.3 - 57.9	800
Unmarried	32.3	27.9 - 36.7	1,500	39.8	25.9 - 53.8	200	57.8	46.7 - 69.0	400	38.5	30.1 - 46.9	600	11.5	7.3 - 15.7	200
Race/Ethnicity															
White	50.0	44.9 - 55.2	2,000	--			23.1	13.7 - 32.5	200	56.4	47.0 - 65.8	700	76.0	68.8 - 83.3	1,000
Hispanic	42.4	37.3 - 47.6	1,700	84.9 *	74.4 - 95.4	500	69.2	58.8 - 79.5	500	35.0	26.1 - 43.9	500	17.2	10.4 - 24.0	200
Asian/Pacific Islander	5.3	3.4 - 7.2	200	--			4.5 *	0.2 - 8.7	<100	4.0 *	1.6 - 6.4	<100	6.8	3.2 - 10.3	<100
Black	1.7 *	0.3 - 3.1	<100	--			--			4.3 *	0.2 - 8.4	<100	--		
Born outside the U.S.	31.0	26.6 - 35.3	1,400	65.4	50.3 - 80.5	400	43.3	32.2 - 54.3	300	24.1	17.2 - 31.1	400	19.3	13.2 - 25.5	300
Speaks non-English language at home	24.4	20.4 - 28.4	1,100	62.5	47.3 - 77.8	400	44.1	33.0 - 55.3	300	14.9	9.4 - 20.5	200	10.2	5.8 - 14.5	200
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	21.7	17.4 - 25.9	900	53.5	37.5 - 69.4	300	42.9	30.9 - 54.9	300	19.0	12.0 - 26.1	300	5.7 *	2.3 - 9.0	<100
101-200%	22.1	18.0 - 26.2	900	36.7	21.5 - 52.0	200	38.9	27.1 - 50.6	300	22.6	15.7 - 29.4	300	9.5	4.0 - 15.0	100
> 200%	56.3	51.3 - 61.2	2,400	9.8 *	1.3 - 18.3	<100	18.2 *	7.3 - 29.2	100	58.4	49.7 - 67.1	900	84.8	78.7 - 91.0	1,300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Sonoma County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			4,600	87.7	84.4 - 91.1		3,900	12.3	8.9 - 15.6		500
Health Status before Pregnancy												
In good to excellent health	95.8	94.1 - 97.6		4,400	95.5	93.5 - 97.5		3,700	--			
Chronic conditions												
Diabetes	3.8	1.8 - 5.8		200	3.6 *	1.3 - 5.9		100	--			
Hypertension	2.3	1.1 - 3.6		100	2.4	1.1 - 3.7		<100	--			
Asthma	10.9	7.9 - 13.9		500	10.9	7.6 - 14.2		400	10.8 *	2.9 - 18.6		<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8		1,900	43.4	38.2 - 48.5		1,700	30.3	17.9 - 42.6		200
Overweight before pregnancy†	29.3	24.9 - 33.6		1,300	30.7	25.8 - 35.5		1,200	22.7	11.8 - 33.5		100
Obese before pregnancy†	24.9	20.4 - 29.3		1,100	23.7	19.0 - 28.5		900	32.9	17.9 - 47.9		200
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2		700	15.8	12.4 - 19.2		600	21.7	9.0 - 34.3		100
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9		1,900	45.3	40.2 - 50.4		1,600	54.2	40.3 - 68.1		300
Food insecurity during pregnancy	13.0	9.4 - 16.6		600	12.7	9.1 - 16.4		500	16.8 *	1.9 - 31.6		<100
Nutrition Program Participation												
Participated in WIC during pregnancy	32.8	28.2 - 37.4		1,500	32.7	27.7 - 37.6		1,200	35.2	19.8 - 50.6		200
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1		700	13.0	9.5 - 16.6		500	21.1 *	5.4 - 36.7		100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2		300	6.6	3.1 - 10.1		200	--			
Prenatal depressive symptoms†	12.7	8.8 - 16.5		600	12.1	8.1 - 16.2		500	18.1 *	3.1 - 33.0		<100
Postpartum depressive symptoms†	8.5	5.8 - 11.1		400	9.2	6.1 - 12.2		400	--			
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5		100	2.9 *	0.9 - 4.9		100	--			
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6		300	5.9	3.2 - 8.6		200	--			
Woman or partner lost job	11.5	8.3 - 14.7		500	11.1	7.6 - 14.6		400	14.4 *	4.8 - 24.0		<100
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3		400	9.5	6.5 - 12.5		400	8.3 *	1.3 - 15.3		<100
Became separated or divorced	4.8	2.6 - 6.9		200	4.9	2.5 - 7.3		200	--			
Had no practical or emotional support	3.1	1.3 - 4.9		100	3.3 *	1.2 - 5.4		100	--			
Substance Use												
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0		400	9.2	6.1 - 12.3		400	--			
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1		<100	0.9 *	0.1 - 1.7		<100	--			
Any smoking, postpartum	2.9 *	1.2 - 4.7		100	2.7 *	0.8 - 4.6		100	--			
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3		900	19.4	15.3 - 23.6		700	16.4	6.8 - 26.0		<100
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5		400	9.2	6.5 - 11.9		400	9.6 *	2.9 - 16.3		<100
Any cannabis use during pregnancy	6.3	3.8 - 8.8		300	4.7	2.7 - 6.7		200	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5		1,200	25.8	20.8 - 30.8		1,000	18.1	7.6 - 28.5		<100
Unsure of pregnancy intentions	11.6	8.6 - 14.6		500	10.8	7.8 - 13.9		400	15.8 *	4.0 - 27.5		<100
Postpartum birth control use	85.0	81.5 - 88.5		3,800	85.3	81.5 - 89.1		3,200	84.2 *	74.4 - 94.0		500
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	88.9	86.1 - 91.8		4,100	89.6	86.6 - 92.5		3,400	83.8 *	73.7 - 93.9		500
Infant always or often shared bed	37.1	32.5 - 41.6		1,700	37.4	32.4 - 42.3		1,400	27.5	15.2 - 39.9		100
Intended to breastfeed, before birth	97.5	96.2 - 98.8		4,400	97.6 *	96.1 - 99.0		3,700	--			
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9		3,700	81.5	77.6 - 85.3		3,100	85.2 *	76.2 - 94.3		500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9		4,300	95.0	93.0 - 96.9		3,600	--			
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4		2,800	63.7	58.4 - 69.1		2,300	73.4	60.7 - 86.1		400
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2		3,000	83.5	78.5 - 88.6		2,400	87.1 *	76.9 - 97.3		300
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4		1,800	52.3	46.2 - 58.4		1,500	53.5	35.4 - 71.6		200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	83.9	80.4 - 87.3	3,900	85.9	82.4 - 89.5	3,300	78.4	66.6 - 90.2	400
Initiated prenatal care in 1st trimester	95.1	93.0 - 97.2	4,300	94.6	92.2 - 97.0	3,500	--		
Received dental care during pregnancy	66.6	62.2 - 71.1	3,100	67.5	62.8 - 72.3	2,600	61.5	47.3 - 75.7	300
Received a Tdap vaccine during pregnancy	72.1	67.6 - 76.5	3,300	72.9	68.2 - 77.6	2,800	68.5	53.2 - 83.8	400
Received a flu shot during pregnancy	71.2	67.0 - 75.4	3,300	72.5	68.0 - 76.9	2,800	63.0	49.2 - 76.8	300
Had a postpartum medical visit	94.4	92.0 - 96.8	4,300	94.7	92.2 - 97.3	3,700	--		
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	27.1	22.7 - 31.5	1,200	25.9	21.2 - 30.5	1,000	33.5	18.8 - 48.2	200
Uninsured	12.9	9.6 - 16.1	600	12.6	9.2 - 16.1	500	11.5 *	1.5 - 21.5	<100
Private	58.2	53.5 - 63.0	2,700	59.6	54.5 - 64.7	2,300	55.0	40.2 - 69.8	300
Prenatal insurance									
Medi-Cal	43.6	38.8 - 48.4	2,000	42.3	37.1 - 47.4	1,600	48.0	33.1 - 62.9	300
Uninsured	--			--			--		
Private	53.5	48.7 - 58.3	2,400	55.0	49.8 - 60.2	2,100	48.7	34.1 - 63.4	300
Had any gaps in insurance during pregnancy	8.4	5.7 - 11.0	400	8.4	5.5 - 11.3	300	--		
Maternal postpartum insurance									
Medi-Cal	34.3	29.6 - 38.9	1,500	32.2	27.3 - 37.1	1,200	41.7	26.6 - 56.8	200
Uninsured	8.9	6.0 - 11.9	400	8.8	5.7 - 12.0	300	10.8 *	0.4 - 21.3	<100
Private	55.0	50.2 - 59.8	2,500	57.0	51.8 - 62.2	2,200	47.5	32.9 - 62.0	300
Infant health insurance									
Medi-Cal	49.5	44.7 - 54.3	2,200	48.0	42.8 - 53.2	1,800	60.1	46.7 - 73.5	300
Uninsured	1.3 *	0.3 - 2.4	<100	1.2 *	0.2 - 2.2	<100	--		
Private	47.5	42.7 - 52.2	2,200	49.0	43.8 - 54.2	1,900	39.9	26.5 - 53.3	200
Maternal Demographics									
Age									
15-19	2.9	1.4 - 4.4	100	3.0	1.3 - 4.7	100	--		
20-34	72.1	67.9 - 76.3	3,300	70.9	66.2 - 75.5	2,800	77.5	67.1 - 87.8	400
35+	25.0	21.0 - 29.0	1,200	26.1	21.6 - 30.6	1,000	21.5	11.3 - 31.7	100
First live birth	40.7	36.0 - 45.4	1,900	39.2	34.0 - 44.4	1,500	43.3	29.5 - 57.1	200
Less than high school education (or GED)	12.6	9.2 - 16.1	600	12.0	8.6 - 15.5	500	16.6 *	1.6 - 31.6	<100
Unmarried	32.3	27.9 - 36.7	1,500	31.3	26.5 - 36.0	1,200	31.4	18.1 - 44.8	200
Race/Ethnicity									
White	50.0	44.9 - 55.2	2,000	49.9	44.3 - 55.5	1,700	54.9	39.1 - 70.8	300
Hispanic	42.4	37.3 - 47.6	1,700	42.3	36.7 - 47.9	1,400	41.4	25.3 - 57.4	200
Asian/Pacific Islander	5.3	3.4 - 7.2	200	5.7	3.5 - 7.9	200	--		
Black	1.7 *	0.3 - 3.1	<100	--			--		
Born outside the U.S.	31.0	26.6 - 35.3	1,400	32.6	27.8 - 37.5	1,300	17.1 *	6.1 - 28.1	<100
Speaks non-English language at home	24.4	20.4 - 28.4	1,100	24.9	20.6 - 29.3	1,000	16.8 *	5.5 - 28.0	<100
Lives in a high poverty neighborhood†	--			--			--		
Income as a percent of the Federal Poverty Guideline									
0-100%	21.7	17.4 - 25.9	900	19.1	14.9 - 23.2	700	36.0	19.8 - 52.2	200
101-200%	22.1	18.0 - 26.2	900	22.0	17.5 - 26.6	800	21.2	9.8 - 32.6	100
> 200%	56.3	51.3 - 61.2	2,400	58.9	53.5 - 64.2	2,100	42.8	28.4 - 57.2	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Sonoma County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	21.7	17.4 - 25.9	900	22.1	18.0 - 26.2	900	56.3	51.3 - 61.2	2,400
Health Status before Pregnancy												
In good to excellent health	95.8	94.1 - 97.6	4,400	92.9 *	87.7 - 98.2	800	94.8 *	90.5 - 99.2	900	97.8 *	96.0 - 99.5	2,300
Chronic conditions												
Diabetes	3.8	1.8 - 5.8	200	5.9 *	1.2 - 10.7	<100	--			2.1 *	0.4 - 3.7	<100
Hypertension	2.3	1.1 - 3.6	100	5.5 *	1.1 - 9.8	<100	--			1.5 *	0.1 - 3.0	<100
Asthma	10.9	7.9 - 13.9	500	10.7 *	4.3 - 17.1	<100	10.3 *	3.7 - 16.9	<100	11.1	7.0 - 15.3	300
Nutrition and Weight												
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	26.5	17.3 - 35.6	200	37.0	26.3 - 47.6	300	50.4	43.8 - 57.0	1,200
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	28.0	18.2 - 37.9	200	41.0	30.4 - 51.7	400	26.7	20.9 - 32.4	600
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	28.2	17.2 - 39.1	200	28.0	19.2 - 36.9	300	21.2	14.9 - 27.5	500
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	21.6	12.3 - 30.9	200	17.0	9.5 - 24.4	100	15.4	11.1 - 19.6	300
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	44.1	32.9 - 55.3	400	51.9	41.5 - 62.2	400	45.3	39.0 - 51.5	1,000
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	37.4	25.8 - 49.0	300	22.3	13.2 - 31.5	200	--		
Nutrition Program Participation												
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	66.9	56.0 - 77.8	600	56.0	45.6 - 66.4	500	6.2 *	2.5 - 9.9	100
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	55.3	44.5 - 66.1	500	9.9	4.3 - 15.5	<100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	20.5 *	8.1 - 32.9	200	8.0 *	0.5 - 15.5	<100	--		
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	21.7	10.7 - 32.6	200	10.6	4.5 - 16.7	<100	9.5	4.2 - 14.8	200
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	11.5 *	4.1 - 18.9	100	9.6 *	3.4 - 15.8	<100	7.6	4.3 - 10.9	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	9.0 *	1.4 - 16.6	<100	--			--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	19.0	8.0 - 30.1	200	6.9 *	1.5 - 12.2	<100	2.8 *	0.5 - 5.1	<100
Woman or partner lost job	11.5	8.3 - 14.7	500	15.7	7.3 - 24.0	100	22.4	13.8 - 31.1	200	5.5 *	2.0 - 8.9	100
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	10.2 *	3.9 - 16.5	<100	14.4	7.5 - 21.3	100	6.9	3.3 - 10.5	200
Became separated or divorced	4.8	2.6 - 6.9	200	13.0 *	4.8 - 21.3	100	--			--		
Had no practical or emotional support	3.1	1.3 - 4.9	100	13.6 *	5.3 - 22.0	100	--			--		
Substance Use												
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	16.8	7.4 - 26.2	100	9.1 *	3.5 - 14.8	<100	5.1	2.6 - 7.5	100
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			--			--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	6.5 *	0.5 - 12.5	<100	--			1.4 *	0.2 - 2.6	<100
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	15.9	6.8 - 25.0	100	12.8	5.6 - 20.0	100	24.4	19.0 - 29.9	600
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	6.4 *	1.3 - 11.5	<100	7.0 *	2.3 - 11.7	<100	12.3	8.4 - 16.2	300
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	11.9 *	2.8 - 20.9	100	7.5 *	2.7 - 12.3	<100	3.8 *	1.4 - 6.1	<100
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	38.6	27.9 - 49.4	400	22.6	13.7 - 31.5	200	20.0	13.7 - 26.2	500
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	17.1	8.5 - 25.8	200	14.6	7.4 - 21.8	100	6.8	3.7 - 10.0	200
Postpartum birth control use	85.0	81.5 - 88.5	3,800	89.1	83.3 - 94.9	800	85.0	77.8 - 92.3	800	82.2	76.7 - 87.6	1,900
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	87.7	81.0 - 94.4	800	88.4	81.7 - 95.1	800	91.1	87.6 - 94.6	2,100
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	42.2	31.2 - 53.2	400	48.4	37.9 - 59.0	400	29.5	23.7 - 35.3	700
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	--			--			97.4 *	95.6 - 99.3	2,300
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	69.0	59.2 - 78.8	600	87.0	81.0 - 93.1	800	87.7	83.5 - 91.9	2,000
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	94.7 *	90.7 - 98.6	900	95.7 *	91.7 - 99.7	900	97.0 *	95.1 - 98.9	2,200
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	56.1	44.6 - 67.7	500	70.5	61.1 - 80.0	600	68.0	61.2 - 74.8	1,500
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	82.7	74.4 - 91.1	700	87.8 *	80.1 - 95.6	600	88.2 *	81.3 - 95.2	1,400
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	41.2	29.2 - 53.2	300	60.2	48.4 - 72.0	400	58.4	50.3 - 66.4	900

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	83.9	80.4	87.3	3,900	81.7	73.6	89.8	700	76.5	67.7	85.3	700	87.7	83.4	91.9	2,100
Initiated prenatal care in 1st trimester	95.1	93.0	97.2	4,300	91.9 *	86.0	97.9	800	95.7 *	92.0	99.4	900	97.0 *	94.6	99.4	2,200
Received dental care during pregnancy	66.6	62.2	71.1	3,100	69.2	59.0	79.3	600	59.5	49.3	69.8	600	66.9	60.8	73.0	1,600
Received a Tdap vaccine during pregnancy	72.1	67.6	76.5	3,300	64.5	53.1	76.0	600	75.6	67.0	84.3	700	75.5	69.8	81.2	1,800
Received a flu shot during pregnancy	71.2	67.0	75.4	3,300	78.7	70.3	87.2	700	69.7	60.2	79.1	600	70.1	64.4	75.8	1,700
Had a postpartum medical visit	94.4	92.0	96.8	4,300	89.8 *	83.0	96.6	800	--				96.1 *	93.0	99.2	2,300
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	27.1	22.7	31.5	1,200	59.6	48.7	70.5	500	33.6	23.8	43.5	300	7.6	4.0	11.2	200
Uninsured	12.9	9.6	16.1	600	26.1	16.4	35.9	200	21.7	13.4	30.0	200	3.7 *	0.6	6.9	<100
Private	58.2	53.5	63.0	2,700	14.3	6.7	21.8	100	41.8	31.7	51.9	400	86.7	82.0	91.5	2,000
Prenatal insurance																
Medi-Cal	43.6	38.8	48.4	2,000	92.7 *	87.8	97.6	800	61.5	51.6	71.4	600	12.8	8.0	17.5	300
Uninsured	--				--				--				--			
Private	53.5	48.7	58.3	2,400	6.3 *	1.8	10.8	<100	33.0	23.4	42.6	300	84.5	79.5	89.5	2,000
Had any gaps in insurance during pregnancy	8.4	5.7	11.0	400	9.1 *	3.0	15.1	<100	16.7	8.3	25.2	100	4.1 *	1.7	6.5	<100
Maternal postpartum insurance																
Medi-Cal	34.3	29.6	38.9	1,500	80.1	71.3	88.9	700	48.4	37.9	59.0	400	7.0	3.9	10.2	200
Uninsured	8.9	6.0	11.9	400	12.3 *	4.5	20.1	100	15.7	8.2	23.3	100	3.9 *	0.8	7.0	<100
Private	55.0	50.2	59.8	2,500	7.6 *	2.8	12.5	<100	33.0	23.1	42.8	300	86.7	82.1	91.3	2,000
Infant health insurance																
Medi-Cal	49.5	44.7	54.3	2,200	94.2 *	89.4	99.0	800	75.8	67.3	84.3	700	17.2	11.9	22.4	400
Uninsured	1.3 *	0.3	2.4	<100	--				--				--			
Private	47.5	42.7	52.2	2,200	--				20.8	12.7	28.9	200	79.5	74.0	85.1	1,800
Maternal Demographics																
First live birth	40.7	36.0	45.4	1,900	26.5	17.3	35.6	200	33.0	23.4	42.6	300	49.8	43.2	56.4	1,200
Less than high school education (or GED)	12.6	9.2	16.1	600	28.4	17.6	39.2	300	19.4	10.7	28.1	200	2.0 *	0.2	3.8	<100
Unmarried	32.3	27.9	36.7	1,500	61.7	50.5	72.8	600	40.3	30.0	50.6	400	13.5	9.3	17.6	300
Race/Ethnicity																
White	50.0	44.9	55.2	2,000	32.4	21.2	43.7	300	26.0	16.8	35.2	200	73.6	67.1	80.2	1,400
Hispanic	42.4	37.3	47.6	1,700	61.5	50.0	72.9	500	66.5	56.5	76.5	600	17.6	11.7	23.5	300
Asian/Pacific Islander	5.3	3.4	7.2	200	4.7 *	0.7	8.7	<100	--				6.8	3.8	9.9	100
Black	1.7 *	0.3	3.1	<100	--				--				--			
Born outside the U.S.	31.0	26.6	35.3	1,400	40.5	30.0	51.0	400	49.2	38.7	59.7	500	15.5	10.8	20.1	400
Speaks non-English language at home	24.4	20.4	28.4	1,100	39.5	28.9	50.2	400	37.5	27.7	47.3	300	8.6	4.7	12.4	200
Lives in a high poverty neighborhood†	--				--				--				--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Sonoma County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			Low: <10% of Residents Below Poverty†			Moderate-Low: 10-19% of Residents Below Poverty†			Moderate-High: 20-29% of Residents Below Poverty†			High: ≥30% of Residents Below Poverty†		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	46.8	41.9 - 51.7	2,100	47.3	42.4 - 52.2	2,100	5.9	3.7 - 8.1	300	--		
Health Status before Pregnancy															
In good to excellent health	95.8	94.1 - 97.6	4,400	94.2	90.8 - 97.6	2,000	97.0	95.3 - 98.7	2,000	--			--		
Chronic conditions															
Diabetes	3.8	1.8 - 5.8	200	2.4 *	0.4 - 4.5	<100	5.6 *	1.7 - 9.5	100	--			--		
Hypertension	2.3	1.1 - 3.6	100	--			3.2 *	1.1 - 5.2	<100	--			--		
Asthma	10.9	7.9 - 13.9	500	14.7	9.5 - 20.0	300	7.5	4.0 - 11.1	100	--			--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	44.6	37.7 - 51.5	900	38.6	31.5 - 45.7	800	45.0	25.8 - 64.2	100	--		
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	29.6	23.2 - 36.1	600	28.7	22.1 - 35.2	600	38.3	19.1 - 57.5	<100	--		
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	21.3	15.7 - 27.0	400	29.0	21.5 - 36.5	600	19.8 *	2.5 - 37.1	<100	--		
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	11.9	7.8 - 15.9	200	22.3	16.4 - 28.1	400	13.4 *	1.9 - 24.9	<100	--		
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	48.6	41.7 - 55.5	1,000	41.3	34.5 - 48.1	700	64.9	47.1 - 82.7	200	--		
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	8.3	3.7 - 12.9	200	18.3	12.1 - 24.5	400	--			--		
Nutrition Program Participation															
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	18.3	12.6 - 24.0	400	45.2	37.8 - 52.7	900	49.2	29.7 - 68.7	100	--		
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	10.0	5.2 - 14.8	200	18.8	12.7 - 24.9	400	--			--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	6.3 *	1.5 - 11.2	100	7.0 *	2.5 - 11.4	100	--			--		
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	11.2	6.3 - 16.1	200	15.2	8.4 - 22.1	300	--			--		
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	8.1	4.1 - 12.0	200	9.1	5.2 - 13.0	200	--			--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	--			2.3 *	0.5 - 4.2	<100	--			--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	5.7 *	1.9 - 9.6	100	7.2 *	2.5 - 11.8	100	--			--		
Woman or partner lost job	11.5	8.3 - 14.7	500	9.3	4.8 - 13.7	200	13.0	8.1 - 18.0	300	18.1 *	2.5 - 33.7	<100	--		
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	6.9	3.3 - 10.6	100	12.3	7.7 - 16.9	200	--			--		
Became separated or divorced	4.8	2.6 - 6.9	200	5.3 *	1.7 - 8.9	100	5.1	2.1 - 8.1	100	--			--		
Had no practical or emotional support	3.1	1.3 - 4.9	100	--			3.6 *	1.0 - 6.2	<100	--			--		
Substance Use															
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	8.9	4.4 - 13.4	200	9.8	5.6 - 13.9	200	--			--		
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			--			--			--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	3.4 *	0.4 - 6.5	<100	2.3 *	0.2 - 4.4	<100	--			--		
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	22.2	16.2 - 28.1	400	15.0	10.0 - 19.9	300	27.6 *	9.8 - 45.5	<100	--		
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	11.4	7.4 - 15.4	200	6.2	3.2 - 9.2	100	16.5 *	2.5 - 30.5	<100	--		
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	5.0	2.1 - 8.0	100	6.3 *	2.1 - 10.4	100	--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	23.8	17.4 - 30.3	500	24.8	17.9 - 31.7	500	33.5	14.6 - 52.3	<100	--		
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	9.7	5.6 - 13.8	200	13.6	8.7 - 18.5	300	--			--		
Postpartum birth control use	85.0	81.5 - 88.5	3,800	86.3	81.2 - 91.3	1,700	83.8	78.2 - 89.3	1,700	--			--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	86.9	82.4 - 91.4	1,800	91.3	87.6 - 94.9	1,900	85.3 *	72.0 - 98.7	200	--		
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	33.7	27.0 - 40.4	700	37.0	30.2 - 43.9	800	48.2	29.0 - 67.4	100	--		
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	98.1 *	96.3 - 99.8	2,000	97.2 *	95.3 - 99.1	2,000	--			--		
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	85.6	80.8 - 90.5	1,700	79.9	74.6 - 85.3	1,600	68.8	51.5 - 86.1	200	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	97.0 *	95.0 - 99.0	2,000	92.7	89.5 - 95.9	1,900	--			--		
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	67.7	60.8 - 74.6	1,300	62.1	54.6 - 69.7	1,200	66.3	48.3 - 84.4	200	--		
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	88.4	83.3 - 93.4	1,300	81.0	73.4 - 88.6	1,300	74.3 *	53.8 - 94.8	100	--		
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	57.7	49.6 - 65.9	800	49.1	40.4 - 57.7	800	41.0	18.4 - 63.7	<100	--		

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MIHA Data Snapshot, Sonoma County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†		
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	N
Healthcare Utilization																			
Had a usual source of pre-pregnancy care	83.9	80.4	87.3	3,900	86.2	81.3	91.2	1,800	86.0	81.3	90.7	1,800	67.4	48.5	86.2	200	--		
Initiated prenatal care in 1st trimester	95.1	93.0	97.2	4,300	96.5 *	93.5	99.5	1,900	94.4	91.2	97.5	1,900	--				--		
Received dental care during pregnancy	66.6	62.2	71.1	3,100	70.1	63.7	76.5	1,500	61.9	54.9	69.0	1,300	79.3 *	64.4	94.3	200	--		
Received a Tdap vaccine during pregnancy	72.1	67.6	76.5	3,300	73.3	66.9	79.8	1,500	70.6	63.7	77.5	1,500	78.2 *	62.4	94.1	200	--		
Received a flu shot during pregnancy	71.2	67.0	75.4	3,300	71.6	65.5	77.6	1,500	70.8	64.4	77.2	1,500	73.1 *	55.1	91.1	200	--		
Had a postpartum medical visit	94.4	92.0	96.8	4,300	93.9 *	90.0	97.8	1,900	94.9 *	91.6	98.2	2,000	--				--		
Health Insurance Coverage																			
Pre-pregnancy insurance																			
Medi-Cal	27.1	22.7	31.5	1,200	24.2	17.8	30.7	500	28.8	22.1	35.4	600	31.4	13.5	49.3	<100	--		
Uninsured	12.9	9.6	16.1	600	7.8	3.4	12.2	200	16.8	11.7	22.0	300	14.6 *	1.7	27.5	<100	--		
Private	58.2	53.5	63.0	2,700	66.2	59.2	73.2	1,400	52.6	45.3	59.9	1,100	54.0	34.9	73.1	100	--		
Prenatal insurance																			
Medi-Cal	43.6	38.8	48.4	2,000	33.7	26.7	40.7	700	50.7	43.3	58.1	1,000	54.9	35.8	74.0	100	--		
Uninsured	--				--				--				--				--		
Private	53.5	48.7	58.3	2,400	62.5	55.5	69.6	1,300	47.5	40.1	54.9	1,000	41.8	22.9	60.6	100	--		
Had any gaps in insurance during pregnancy	8.4	5.7	11.0	400	5.3 *	1.9	8.6	100	11.4	7.0	15.9	200	--				--		
Maternal postpartum insurance																			
Medi-Cal	34.3	29.6	38.9	1,500	26.2	19.8	32.6	500	40.6	33.3	48.0	800	33.2	15.4	51.0	<100	--		
Uninsured	8.9	6.0	11.9	400	6.9 *	2.5	11.3	100	10.6	6.1	15.1	200	14.3 *	1.5	27.1	<100	--		
Private	55.0	50.2	59.8	2,500	64.4	57.4	71.4	1,300	47.6	40.1	55.1	1,000	52.5	33.4	71.7	100	--		
Infant health insurance																			
Medi-Cal	49.5	44.7	54.3	2,200	40.9	33.8	48.0	800	55.1	47.7	62.4	1,100	72.8	57.1	88.5	200	--		
Uninsured	1.3 *	0.3	2.4	<100	--				--				--				--		
Private	47.5	42.7	52.2	2,200	55.9	48.9	63.0	1,100	42.5	35.2	49.9	900	27.2	11.5	42.9	<100	--		
Maternal Demographics																			
Age																			
15-19	2.9	1.4	4.4	100	--				4.4 *	1.6	7.2	<100	--				--		
20-34	72.1	67.9	76.3	3,300	72.5	66.8	78.3	1,500	69.3	62.5	76.2	1,500	83.7 *	72.0	95.3	200	--		
35+	25.0	21.0	29.0	1,200	26.6	20.9	32.3	600	26.3	19.7	32.9	600	11.7 *	1.2	22.1	<100	--		
First live birth	40.7	36.0	45.4	1,900	39.3	32.5	46.1	800	39.4	32.1	46.7	800	45.6	26.3	64.9	100	--		
Less than high school education (or GED)	12.6	9.2	16.1	600	9.7	5.0	14.3	200	14.9	9.3	20.5	300	17.0 *	2.4	31.7	<100	--		
Unmarried	32.3	27.9	36.7	1,500	22.0	16.0	27.9	500	39.6	32.6	46.6	800	38.1	19.3	56.9	<100	--		
Race/Ethnicity																			
White	50.0	44.9	55.2	2,000	58.4	50.8	66.0	1,000	44.7	36.7	52.7	800	40.2	20.7	59.8	<100	--		
Hispanic	42.4	37.3	47.6	1,700	33.5	26.0	41.0	600	48.9	40.9	56.8	900	52.4	32.1	72.6	100	--		
Asian/Pacific Islander	5.3	3.4	7.2	200	5.9	2.8	9.0	100	4.2	1.9	6.5	<100	--				--		
Black	1.7 *	0.3	3.1	<100	--				--				--				--		
Born outside the U.S.	31.0	26.6	35.3	1,400	21.4	15.4	27.3	400	40.0	33.0	47.1	800	30.3	14.0	46.7	<100	--		
Speaks non-English language at home	24.4	20.4	28.4	1,100	19.2	13.3	25.1	400	28.1	22.0	34.1	600	28.2	12.1	44.3	<100	--		
Income as a percent of the Federal Poverty Guideline																			
0-100%	21.7	17.4	25.9	900	13.7	8.4	19.0	300	28.9	21.7	36.0	500	20.6 *	5.5	35.6	<100	--		
101-200%	22.1	18.0	26.2	900	14.4	9.4	19.4	300	27.2	20.4	34.1	500	38.9	19.2	58.7	100	--		
> 200%	56.3	51.3	61.2	2,400	71.9	65.3	78.5	1,400	43.9	36.0	51.8	800	40.5	21.7	59.3	100	--		

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).
Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA
Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Sonoma County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	43.6	38.8 - 48.4	2,000	53.5	48.7 - 58.3	2,400
Health Status before Pregnancy									
In good to excellent health	95.8	94.1 - 97.6	4,400	93.9	90.8 - 97.1	1,900	97.4 *	95.5 - 99.3	2,400
Chronic conditions									
Diabetes	3.8	1.8 - 5.8	200	3.7 *	1.3 - 6.1	<100	2.4 *	0.6 - 4.1	<100
Hypertension	2.3	1.1 - 3.6	100	2.7 *	0.7 - 4.7	<100	2.2 *	0.5 - 3.9	<100
Asthma	10.9	7.9 - 13.9	500	9.7	5.2 - 14.3	200	11.5	7.5 - 15.6	300
Nutrition and Weight									
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	29.2	22.4 - 35.9	600	48.6	42.2 - 54.9	1,200
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	33.9	26.6 - 41.2	600	24.0	19.0 - 29.1	600
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	23.3	16.8 - 29.8	400	26.3	19.9 - 32.6	600
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	17.7	12.2 - 23.2	300	16.2	11.9 - 20.5	400
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	46.0	38.4 - 53.7	800	45.3	39.3 - 51.3	1,000
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	23.7	16.7 - 30.7	500	4.5 *	1.7 - 7.4	100
Nutrition Program Participation									
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	61.4	54.0 - 68.9	1,200	8.0	4.6 - 11.4	200
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	32.0	24.7 - 39.3	600	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	14.4	7.4 - 21.4	300	1.7 *	0.1 - 3.2	<100
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	15.3	9.0 - 21.6	300	10.0	4.9 - 15.1	200
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	8.2	4.0 - 12.3	200	9.4	5.8 - 13.0	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	6.1 *	2.2 - 10.1	100	--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	11.0	5.1 - 16.9	200	3.6 *	1.1 - 6.1	<100
Woman or partner lost job	11.5	8.3 - 14.7	500	15.1	9.7 - 20.5	300	9.2	5.2 - 13.3	200
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	10.1	5.9 - 14.2	200	9.6	5.7 - 13.5	200
Became separated or divorced	4.8	2.6 - 6.9	200	9.2	4.7 - 13.7	200	1.7 *	0.1 - 3.2	<100
Had no practical or emotional support	3.1	1.3 - 4.9	100	5.9 *	1.9 - 9.8	100	1.1 *	0.1 - 2.1	<100
Substance Use									
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	14.0	8.2 - 19.7	300	5.5	3.1 - 8.0	100
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			1.2 *	0.1 - 2.4	<100
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	4.3 *	0.7 - 7.9	<100	2.1 *	0.6 - 3.6	<100
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	18.7	12.4 - 24.9	400	20.2	15.4 - 25.0	500
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	4.6 *	1.8 - 7.4	<100	13.1	9.2 - 17.0	300
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	9.1	4.1 - 14.0	200	4.0	1.8 - 6.3	<100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	34.8	27.4 - 42.2	700	18.2	12.3 - 24.1	400
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	16.7	11.1 - 22.3	300	7.0	4.2 - 9.9	200
Postpartum birth control use	85.0	81.5 - 88.5	3,800	89.5	85.3 - 93.7	1,700	80.7	75.3 - 86.1	1,900
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	86.8	82.0 - 91.6	1,700	90.6	87.1 - 94.1	2,200
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	47.9	40.4 - 55.5	900	27.8	22.3 - 33.3	700
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	97.0 *	94.7 - 99.4	1,900	98.0 *	96.5 - 99.5	2,300
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	76.9	71.0 - 82.8	1,500	86.6	82.4 - 90.9	2,000
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	95.2	92.7 - 97.8	1,900	95.2	92.7 - 97.6	2,300
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	62.6	55.1 - 70.1	1,200	65.7	59.1 - 72.4	1,500
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	83.4	77.4 - 89.5	1,300	85.9	78.9 - 92.8	1,500
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	49.6	40.9 - 58.3	700	55.5	47.8 - 63.3	900

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	83.9	80.4	87.3	3,900	79.7	73.9	85.5	1,600	87.3	83.1	91.6	2,100
Initiated prenatal care in 1st trimester	95.1	93.0	97.2	4,300	92.3	88.3	96.3	1,700	98.0 *	96.4	99.6	2,300
Received dental care during pregnancy	66.6	62.2	71.1	3,100	67.9	60.9	74.9	1,300	66.2	60.3	72.1	1,600
Received a Tdap vaccine during pregnancy	72.1	67.6	76.5	3,300	64.9	57.4	72.4	1,300	77.1	71.7	82.4	1,900
Received a flu shot during pregnancy	71.2	67.0	75.4	3,300	70.2	63.4	77.0	1,400	71.4	65.9	76.9	1,700
Had a postpartum medical visit	94.4	92.0	96.8	4,300	90.6	85.7	95.5	1,800	97.0 *	95.0	99.0	2,300
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	27.1	22.7	31.5	1,200	61.7	54.4	69.0	1,200	--			
Uninsured	12.9	9.6	16.1	600	27.3	20.6	34.0	500	--			
Private	58.2	53.5	63.0	2,700	10.1	5.8	14.3	200	98.3 *	96.9	99.6	2,400
Had any gaps in insurance during pregnancy	8.4	5.7	11.0	400	13.7	8.5	18.9	300	3.0 *	0.9	5.1	<100
Maternal postpartum insurance												
Medi-Cal	34.3	29.6	38.9	1,500	72.0	65.0	79.0	1,400	4.3	2.1	6.5	100
Uninsured	8.9	6.0	11.9	400	18.9	12.6	25.1	400	--			
Private	55.0	50.2	59.8	2,500	9.1	4.9	13.4	200	94.6	92.1	97.1	2,300
Infant health insurance												
Medi-Cal	49.5	44.7	54.3	2,200	92.9	89.1	96.7	1,800	13.2	8.9	17.5	300
Uninsured	1.3 *	0.3	2.4	<100	--				--			
Private	47.5	42.7	52.2	2,200	5.1 *	1.8	8.4	100	86.1	81.7	90.5	2,000
Maternal Demographics												
Age												
15-19	2.9	1.4	4.4	100	6.5	3.1	10.0	100	--			
20-34	72.1	67.9	76.3	3,300	73.5	67.2	79.8	1,500	71.8	66.3	77.4	1,700
35+	25.0	21.0	29.0	1,200	20.0	14.3	25.6	400	28.0	22.4	33.5	700
First live birth	40.7	36.0	45.4	1,900	30.4	23.5	37.2	600	50.3	43.9	56.6	1,200
Less than high school education (or GED)	12.6	9.2	16.1	600	25.6	18.6	32.6	500	2.8 *	0.7	4.8	<100
Unmarried	32.3	27.9	36.7	1,500	55.6	48.1	63.1	1,100	14.4	10.2	18.5	300
Race/Ethnicity												
White	50.0	44.9	55.2	2,000	27.6	20.6	34.5	500	71.8	65.6	78.0	1,400
Hispanic	42.4	37.3	47.6	1,700	67.2	59.9	74.5	1,200	18.3	12.9	23.7	400
Asian/Pacific Islander	5.3	3.4	7.2	200	3.1 *	0.8	5.5	<100	7.3	4.2	10.4	100
Black	1.7 *	0.3	3.1	<100	--				--			
Born outside the U.S.	31.0	26.6	35.3	1,400	47.1	39.6	54.6	900	17.6	13.1	22.1	400
Speaks non-English language at home	24.4	20.4	28.4	1,100	43.0	35.6	50.3	900	10.3	6.8	13.7	200
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	21.7	17.4	25.9	900	49.4	41.3	57.6	800	2.4 *	0.7	4.2	<100
101-200%	22.1	18.0	26.2	900	32.7	25.3	40.1	600	12.6	8.4	16.8	300
> 200%	56.3	51.3	61.2	2,400	17.9	11.4	24.3	300	84.9	80.5	89.4	2,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Sonoma County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	42.4	37.3 - 47.6	1,700	1.7 *	0.3 - 3.1	<100	50.0	44.9 - 55.2	2,000	5.3	3.4 - 7.2	200
Health Status before Pregnancy															
In good to excellent health	95.8	94.1 - 97.6	4,400	93.7	90.6 - 96.8	1,600	--			97.2 *	94.7 - 99.8	1,900	--		
Chronic conditions															
Diabetes	3.8	1.8 - 5.8	200	5.3 *	0.7 - 9.8	<100	--			--			--		
Hypertension	2.3	1.1 - 3.6	100	--			--			--			--		
Asthma	10.9	7.9 - 13.9	500	10.5	5.4 - 15.7	200	--			11.0	6.6 - 15.4	200	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	31.0	23.3 - 38.6	500	--			46.0	38.9 - 53.1	900	43.5	25.1 - 62.0	<100
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	37.2	29.1 - 45.4	600	--			24.9	19.1 - 30.7	500	22.9 *	6.2 - 39.5	<100
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	26.8	19.4 - 34.3	400	--			23.4	16.2 - 30.5	500	16.2 *	3.8 - 28.6	<100
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	15.9	10.3 - 21.6	200	--			16.1	11.3 - 20.9	300	16.7 *	3.9 - 29.5	<100
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	48.3	40.2 - 56.4	700	--			47.9	41.1 - 54.8	900	41.7	23.2 - 60.1	<100
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	18.2	11.3 - 25.0	300	--			7.6	3.2 - 12.0	200	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	65.5	57.7 - 73.2	1,100	--			10.6	6.1 - 15.1	200	20.2 *	5.9 - 34.5	<100
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	23.5	16.2 - 30.8	400	--			9.2	4.4 - 13.9	200	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	10.1	4.5 - 15.8	200	--			--			--		
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	13.9	7.4 - 20.4	200	--			10.6 *	4.3 - 17.0	200	14.8 *	2.4 - 27.3	<100
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	8.3	4.7 - 11.9	100	--			7.6	3.3 - 12.0	200	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	3.1 *	0.6 - 5.5	<100	--			--			--		
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	8.7 *	3.0 - 14.4	100	--			4.5 *	1.0 - 8.0	<100	--		
Woman or partner lost job	11.5	8.3 - 14.7	500	13.9	8.3 - 19.5	200	--			11.2	6.2 - 16.3	200	--		
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	11.3	6.6 - 16.0	200	--			9.0	5.0 - 13.0	200	--		
Became separated or divorced	4.8	2.6 - 6.9	200	8.5	4.3 - 12.6	100	--			--			--		
Had no practical or emotional support	3.1	1.3 - 4.9	100	5.7 *	2.2 - 9.3	<100	--			--			--		
Often experienced racism over her lifetime	9.0	6.4 - 11.7	400	18.3	11.9 - 24.6	300	--			--			15.0 *	3.4 - 26.7	<100
Substance Use															
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	7.0	2.9 - 11.1	100	--			12.9	7.6 - 18.2	300	--		
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	--			--			2.5 *	0.6 - 4.4	<100	--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	--			--			3.8 *	1.0 - 6.6	<100	--		
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	14.0	8.4 - 19.6	200	--			26.0	19.7 - 32.3	500	10.1 *	1.0 - 19.2	<100
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	7.6	3.5 - 11.6	100	--			11.3	7.4 - 15.2	200	--		
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	6.5 *	1.4 - 11.6	100	--			6.9	3.5 - 10.3	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	33.2	25.3 - 41.1	600	--			19.9	13.0 - 26.8	400	22.6 *	7.8 - 37.3	<100
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	14.7	8.9 - 20.5	200	--			11.8	7.5 - 16.2	200	--		
Postpartum birth control use	85.0	81.5 - 88.5	3,800	88.5	83.6 - 93.5	1,400	--			85.3	80.0 - 90.6	1,700	83.5 *	70.9 - 96.1	200
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	86.0	81.0 - 90.9	1,400	--			91.8	88.0 - 95.6	1,800	79.5 *	64.1 - 94.8	200
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	47.1	38.9 - 55.3	800	--			28.7	22.3 - 35.2	600	42.9	25.1 - 60.7	<100
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	97.9 *	95.9 - 99.9	1,600	--			97.2 *	95.2 - 99.1	1,900	--		
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	72.0	64.9 - 79.0	1,200	--			90.8	87.2 - 94.4	1,700	63.8	44.6 - 82.9	100
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	94.0	91.0 - 97.1	1,600	--			96.0 *	93.5 - 98.4	1,800	--		
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	65.4	57.5 - 73.4	1,000	--			67.1	59.6 - 74.7	1,200	51.5	31.5 - 71.6	<100
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	84.3	78.3 - 90.3	1,200	--			82.9	74.5 - 91.3	1,200	--		
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	52.1	42.8 - 61.3	700	--			55.4	46.4 - 64.3	800	42.5	20.1 - 64.8	<100

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MIHA Data Snapshot, Sonoma County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	83.9	80.4 - 87.3	3,900	86.2	80.9 - 91.6	1,500	--			85.4	80.7 - 90.1	1,700	69.9 *	52.0 - 87.9	100
Initiated prenatal care in 1st trimester	95.1	93.0 - 97.2	4,300	92.4	88.2 - 96.5	1,500	--			98.0 *	96.0 - 99.9	1,900	--		
Received dental care during pregnancy	66.6	62.2 - 71.1	3,100	74.9	68.0 - 81.7	1,300	--			67.9	61.4 - 74.4	1,300	44.8	26.8 - 62.8	<100
Received a Tdap vaccine during pregnancy	72.1	67.6 - 76.5	3,300	71.1	63.4 - 78.7	1,200	--			74.5	67.8 - 81.2	1,500	69.0	51.9 - 86.2	100
Received a flu shot during pregnancy	71.2	67.0 - 75.4	3,300	75.2	68.3 - 82.1	1,300	--			69.8	63.4 - 76.1	1,400	75.1 *	59.1 - 91.0	200
Had a postpartum medical visit	94.4	92.0 - 96.8	4,300	94.1 *	89.7 - 98.6	1,600	--			93.6	90.0 - 97.3	1,900	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	27.1	22.7 - 31.5	1,200	45.7	37.6 - 53.9	800	--			16.4	10.9 - 22.0	300	21.7 *	5.4 - 38.0	<100
Uninsured	12.9	9.6 - 16.1	600	25.8	18.7 - 32.9	400	--			5.4 *	2.0 - 8.8	100	--		
Private	58.2	53.5 - 63.0	2,700	27.9	20.9 - 34.8	500	--			75.4	69.1 - 81.7	1,500	65.8	47.9 - 83.6	100
Prenatal insurance															
Medi-Cal	43.6	38.8 - 48.4	2,000	76.9	70.3 - 83.5	1,200	--			25.7	19.3 - 32.2	500	27.5 *	10.3 - 44.8	<100
Uninsured	--			--			--			--			--		
Private	53.5	48.7 - 58.3	2,400	22.1	15.6 - 28.6	400	--			70.8	64.2 - 77.4	1,400	67.4	49.7 - 85.0	100
Had any gaps in insurance during pregnancy	8.4	5.7 - 11.0	400	9.1	4.5 - 13.8	100	--			8.5	4.6 - 12.5	200	--		
Maternal postpartum insurance															
Medi-Cal	34.3	29.6 - 38.9	1,500	56.2	47.8 - 64.5	900	--			23.7	17.3 - 30.1	500	20.4 *	6.0 - 34.8	<100
Uninsured	8.9	6.0 - 11.9	400	20.4	13.2 - 27.5	300	--			2.0 *	0.3 - 3.7	<100	--		
Private	55.0	50.2 - 59.8	2,500	23.5	16.7 - 30.3	400	--			71.8	65.2 - 78.3	1,400	74.3 *	58.9 - 89.7	200
Infant health insurance															
Medi-Cal	49.5	44.7 - 54.3	2,200	83.3	77.5 - 89.2	1,400	--			28.3	21.6 - 34.9	500	37.7	18.6 - 56.8	<100
Uninsured	1.3 *	0.3 - 2.4	<100	--			--			--			--		
Private	47.5	42.7 - 52.2	2,200	15.5	9.8 - 21.2	300	--			67.8	61.0 - 74.6	1,300	59.3	40.3 - 78.4	100
Maternal Demographics															
Age															
15-19	2.9	1.4 - 4.4	100	6.1	2.7 - 9.6	100	--			--			--		
20-34	72.1	67.9 - 76.3	3,300	72.0	64.8 - 79.3	1,200	--			74.0	67.9 - 80.2	1,500	61.9	44.4 - 79.4	100
35+	25.0	21.0 - 29.0	1,200	21.8	15.0 - 28.6	400	--			25.4	19.3 - 31.6	500	38.1	20.6 - 55.6	<100
First live birth	40.7	36.0 - 45.4	1,900	29.4	22.2 - 36.7	500	--			46.5	39.3 - 53.8	900	49.3	31.0 - 67.6	100
Less than high school education (or GED)	12.6	9.2 - 16.1	600	28.7	20.8 - 36.5	500	--			--			--		
Unmarried	32.3	27.9 - 36.7	1,500	48.7	40.5 - 57.0	800	--			24.2	17.9 - 30.4	500	18.2 *	5.5 - 31.0	<100
Born outside the U.S.	31.0	26.6 - 35.3	1,400	59.4	51.3 - 67.5	1,000	--			4.9 *	1.9 - 7.9	<100	60.6	42.6 - 78.7	100
Speaks non-English language at home	24.4	20.4 - 28.4	1,100	50.5	42.2 - 58.7	800	--			2.2 *	0.2 - 4.2	<100	49.1	30.8 - 67.5	100
Lives in a high poverty neighborhood†	--			--			--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	21.7	17.4 - 25.9	900	36.0	27.4 - 44.6	500	--			14.1	8.5 - 19.6	300	19.3 *	4.4 - 34.2	<100
101-200%	22.1	18.0 - 26.2	900	40.0	31.2 - 48.7	600	--			11.6	7.2 - 15.9	200	15.1 *	0.4 - 29.7	<100
> 200%	56.3	51.3 - 61.2	2,400	24.0	16.3 - 31.8	300	--			74.4	67.9 - 80.9	1,400	65.6	47.3 - 83.9	100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Sonoma County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		4,600	40.7	36.0 - 45.4	1,900	59.3	54.6 - 64.0	2,700
Health Status before Pregnancy									
In good to excellent health	95.8	94.1 - 97.6	4,400	98.3 *	96.8 - 99.8	1,800	94.2	91.5 - 96.9	2,600
Chronic conditions									
Diabetes	3.8	1.8 - 5.8	200	2.4 *	0.5 - 4.4	<100	4.8 *	1.6 - 7.9	100
Hypertension	2.3	1.1 - 3.6	100	2.8 *	0.5 - 5.1	<100	2.0 *	0.6 - 3.4	<100
Asthma	10.9	7.9 - 13.9	500	11.7	7.2 - 16.3	200	10.2	6.2 - 14.2	300
Nutrition and Weight									
Daily folic acid use, month before pregnancy	41.1	36.5 - 45.8	1,900	45.3	37.9 - 52.8	900	38.2	32.2 - 44.2	1,000
Overweight before pregnancy†	29.3	24.9 - 33.6	1,300	28.7	21.9 - 35.5	500	29.7	24.0 - 35.4	800
Obese before pregnancy†	24.9	20.4 - 29.3	1,100	20.2	13.0 - 27.4	400	28.2	22.5 - 33.9	800
Inadequate weight gain during pregnancy†	16.8	13.5 - 20.2	700	13.9	9.2 - 18.6	200	18.8	14.2 - 23.4	500
Excessive weight gain during pregnancy†	46.3	41.6 - 50.9	1,900	51.6	44.4 - 58.8	900	42.7	36.7 - 48.8	1,100
Food insecurity during pregnancy	13.0	9.4 - 16.6	600	9.6	5.1 - 14.1	200	15.4	10.2 - 20.5	400
Nutrition Program Participation									
Participated in WIC during pregnancy	32.8	28.2 - 37.4	1,500	20.5	14.6 - 26.4	400	41.4	35.2 - 47.6	1,100
Received CalFresh (food stamps) during pregnancy	14.4	10.8 - 18.1	700	6.2	3.1 - 9.2	100	20.2	14.7 - 25.7	500
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	7.0	3.7 - 10.2	300	4.9 *	0.9 - 8.9	<100	8.4	3.8 - 13.0	200
Prenatal depressive symptoms†	12.7	8.8 - 16.5	600	13.7	7.1 - 20.4	300	11.9	7.2 - 16.6	300
Postpartum depressive symptoms†	8.5	5.8 - 11.1	400	7.8	3.9 - 11.8	100	8.9	5.4 - 12.4	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.8 *	1.0 - 4.5	100	2.2 *	0.5 - 4.0	<100	3.1 *	0.5 - 5.7	<100
Moved due to problems paying rent or mortgage	6.7	3.8 - 9.6	300	6.8	2.9 - 10.7	100	6.7 *	2.6 - 10.7	200
Woman or partner lost job	11.5	8.3 - 14.7	500	13.1	7.8 - 18.3	200	10.4	6.5 - 14.3	300
Woman or partner had pay or hours cut back	9.5	6.8 - 12.3	400	10.3	5.8 - 14.8	200	8.9	5.5 - 12.4	200
Became separated or divorced	4.8	2.6 - 6.9	200	3.2 *	1.1 - 5.3	<100	5.9	2.6 - 9.1	200
Had no practical or emotional support	3.1	1.3 - 4.9	100	--			5.1 *	2.1 - 8.1	100
Substance Use									
Any smoking, 3 months before pregnancy	9.1	6.3 - 12.0	400	8.0	4.6 - 11.5	200	9.9	5.7 - 14.1	300
Any smoking, 3rd trimester	1.3 *	0.4 - 2.1	<100	2.5 *	0.6 - 4.4	<100	--		
Any smoking, postpartum	2.9 *	1.2 - 4.7	100	3.0 *	0.6 - 5.5	<100	2.9 *	0.5 - 5.3	<100
Any binge drinking, 3 months before pregnancy	19.5	15.8 - 23.3	900	23.5	17.6 - 29.5	400	16.9	12.0 - 21.8	500
Any alcohol use, 3rd trimester	9.1	6.6 - 11.5	400	8.5	4.9 - 12.2	200	9.4	6.2 - 12.7	300
Any cannabis use during pregnancy	6.3	3.8 - 8.8	300	8.6	4.7 - 12.6	200	4.7 *	1.4 - 8.0	100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	25.0	20.5 - 29.5	1,200	28.4	20.6 - 36.2	500	22.7	17.5 - 27.9	600
Unsure of pregnancy intentions	11.6	8.6 - 14.6	500	9.0	5.2 - 12.8	200	13.4	9.1 - 17.7	400
Postpartum birth control use	85.0	81.5 - 88.5	3,800	81.1	74.6 - 87.6	1,500	87.8	84.1 - 91.4	2,300
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	88.9	86.1 - 91.8	4,100	88.4	83.8 - 93.0	1,600	89.3	85.8 - 92.9	2,400
Infant always or often shared bed	37.1	32.5 - 41.6	1,700	38.0	30.8 - 45.2	700	36.4	30.5 - 42.3	1,000
Intended to breastfeed, before birth	97.5	96.2 - 98.8	4,400	97.5 *	95.4 - 99.7	1,800	97.5 *	95.9 - 99.2	2,600
Intended to breastfeed exclusively, before birth	82.5	79.0 - 85.9	3,700	90.1	86.0 - 94.2	1,600	77.3	72.4 - 82.3	2,100
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	95.2	93.4 - 96.9	4,300	96.9 *	94.8 - 99.0	1,800	94.0	91.5 - 96.5	2,500
Exclusive breastfeeding, 1 month after delivery	65.6	60.7 - 70.4	2,800	64.8	57.0 - 72.7	1,100	66.1	60.0 - 72.2	1,700
Any breastfeeding, 3 months after delivery	84.7	80.3 - 89.2	3,000	84.8	76.6 - 93.1	1,100	84.7	79.7 - 89.7	1,800
Exclusive breastfeeding, 3 months after delivery	53.7	48.0 - 59.4	1,800	55.8	46.7 - 64.8	700	52.3	45.1 - 59.6	1,100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Sonoma County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Sonoma County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	83.9	80.4	87.3	3,900	77.1	70.8	83.5	1,500	88.5	84.8	92.3	2,400
Initiated prenatal care in 1st trimester	95.1	93.0	97.2	4,300	93.9	90.5	97.3	1,700	95.9 *	93.2	98.5	2,500
Received dental care during pregnancy	66.6	62.2	71.1	3,100	66.6	59.7	73.6	1,300	66.7	60.9	72.4	1,800
Received a Tdap vaccine during pregnancy	72.1	67.6	76.5	3,300	74.1	67.4	80.9	1,400	70.6	64.8	76.5	1,900
Received a flu shot during pregnancy	71.2	67.0	75.4	3,300	72.8	66.4	79.2	1,400	70.1	64.6	75.6	1,900
Had a postpartum medical visit	94.4	92.0	96.8	4,300	96.1 *	92.3	99.8	1,800	93.2	90.1	96.3	2,500
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	27.1	22.7	31.5	1,200	19.1	13.3	25.0	400	32.6	26.6	38.6	900
Uninsured	12.9	9.6	16.1	600	10.4	5.5	15.3	200	14.5	10.3	18.8	400
Private	58.2	53.5	63.0	2,700	68.9	61.9	76.0	1,300	50.9	44.8	56.9	1,400
Prenatal insurance												
Medi-Cal	43.6	38.8	48.4	2,000	32.4	25.3	39.6	600	51.4	45.3	57.4	1,400
Uninsured	--				--				--			
Private	53.5	48.7	58.3	2,400	65.8	58.6	73.1	1,200	45.0	39.0	50.9	1,200
Had any gaps in insurance during pregnancy	8.4	5.7	11.0	400	8.4	4.3	12.4	200	8.4	4.9	11.8	200
Maternal postpartum insurance												
Medi-Cal	34.3	29.6	38.9	1,500	28.3	21.7	34.9	500	38.3	32.2	44.5	1,000
Uninsured	8.9	6.0	11.9	400	4.8 *	1.1	8.5	<100	11.8	7.6	16.0	300
Private	55.0	50.2	59.8	2,500	66.1	59.0	73.2	1,200	47.4	41.3	53.5	1,300
Infant health insurance												
Medi-Cal	49.5	44.7	54.3	2,200	41.4	33.9	48.9	800	55.0	49.0	61.0	1,500
Uninsured	1.3 *	0.3	2.4	<100	--				--			
Private	47.5	42.7	52.2	2,200	56.3	48.8	63.9	1,000	41.5	35.6	47.4	1,100
Maternal Demographics												
Age												
15-19	2.9	1.4	4.4	100	7.2	3.5	10.8	100	--			
20-34	72.1	67.9	76.3	3,300	79.1	73.0	85.1	1,500	67.3	61.7	72.9	1,800
35+	25.0	21.0	29.0	1,200	13.8	8.5	19.0	300	32.7	27.1	38.3	900
Less than high school education (or GED)	12.6	9.2	16.1	600	4.7 *	1.7	7.7	<100	18.1	12.9	23.4	500
Unmarried	32.3	27.9	36.7	1,500	33.6	26.7	40.4	600	31.4	25.7	37.1	900
Race/Ethnicity												
White	50.0	44.9	55.2	2,000	59.3	51.2	67.5	900	44.0	37.6	50.4	1,100
Hispanic	42.4	37.3	47.6	1,700	31.9	24.2	39.5	500	49.3	42.7	55.8	1,200
Asian/Pacific Islander	5.3	3.4	7.2	200	6.6	3.1	10.2	100	4.4	2.2	6.6	100
Black	1.7 *	0.3	3.1	<100	--				--			
Born outside the U.S.	31.0	26.6	35.3	1,400	22.1	15.9	28.3	400	37.1	31.2	42.9	1,000
Speaks non-English language at home	24.4	20.4	28.4	1,100	19.3	13.3	25.2	400	28.0	22.7	33.3	800
Lives in a high poverty neighborhood†	--				--				--			
Income as a percent of the Federal Poverty Guideline												
0-100%	21.7	17.4	25.9	900	14.0	8.9	19.1	200	27.0	21.0	33.0	700
101-200%	22.1	18.0	26.2	900	17.7	12.1	23.4	300	25.1	19.4	30.8	600
> 200%	56.3	51.3	61.2	2,400	68.3	61.2	75.3	1,200	47.9	41.6	54.3	1,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Sonoma County, n=380).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Sonoma County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Stanislaus County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			7,400	5.4	3.2	- 7.7	400	79.6	75.9	- 83.4	5,900	14.9	11.7	- 18.1	1,100
Health Status before Pregnancy																
In good to excellent health	89.2	86.2	- 92.1	6,600	81.7 *	65.2	- 98.2	300	89.6	86.3	- 92.8	5,300	89.8 *	82.4	- 97.2	1,000
Chronic conditions																
Diabetes	2.3	1.0	- 3.5	200	--				1.9 *	0.6	- 3.2	100	5.0 *	0.6	- 9.4	<100
Hypertension	4.1 *	1.4	- 6.8	300	--				4.3 *	1.0	- 7.5	200	--			
Asthma	11.0	7.5	- 14.5	800	--				11.0	7.0	- 15.1	600	8.5 *	1.1	- 15.8	<100
Nutrition and Weight																
Daily folic acid use, month before pregnancy	32.6	28.3	- 37.0	2,400	17.0 *	1.0	- 33.0	<100	32.4	27.5	- 37.3	1,900	39.4	28.1	- 50.7	400
Overweight before pregnancy†	29.4	25.0	- 33.7	2,000	18.0 *	0.7	- 35.2	<100	29.0	24.2	- 33.8	1,600	35.8	24.2	- 47.3	400
Obese before pregnancy†	33.1	28.4	- 37.8	2,300	41.9	19.8	- 64.0	200	32.6	27.3	- 37.8	1,800	32.3	21.0	- 43.7	300
Inadequate weight gain during pregnancy†	22.6	18.6	- 26.6	1,500	--				23.8	19.2	- 28.3	1,200	22.8	12.2	- 33.3	200
Excessive weight gain during pregnancy†	43.9	39.1	- 48.7	2,800	67.8 *	48.6	- 87.0	200	43.3	38.0	- 48.6	2,200	38.1	26.1	- 50.0	400
Food insecurity during pregnancy	22.2	18.2	- 26.2	1,600	27.8 *	9.1	- 46.6	100	23.7	19.1	- 28.3	1,400	12.5 *	4.5	- 20.5	100
Nutrition Program Participation																
Participated in WIC during pregnancy	50.3	45.5	- 55.1	3,700	73.0 *	53.4	- 92.6	300	49.2	43.8	- 54.6	2,800	47.5	36.0	- 59.0	500
Received CalFresh (food stamps) during pregnancy	29.0	24.7	- 33.4	2,200	29.5 *	9.0	- 50.0	100	31.0	26.0	- 36.0	1,800	18.4	10.0	- 26.8	200
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3	- 14.2	800	36.0 *	8.3	- 63.7	100	9.5	6.1	- 12.9	500	8.8 *	0.5	- 17.2	<100
Prenatal depressive symptoms†	19.1	15.2	- 23.0	1,400	36.5	15.5	- 57.6	100	20.0	15.5	- 24.5	1,200	8.1 *	2.2	- 13.9	<100
Postpartum depressive symptoms†	14.9	11.4	- 18.5	1,100	20.2 *	1.0	- 39.3	<100	16.3	12.2	- 20.4	1,000	5.8 *	0.5	- 11.2	<100
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	4.0 *	1.4	- 6.5	300	--				4.3 *	1.2	- 7.3	200	--			
Moved due to problems paying rent or mortgage	6.9	4.5	- 9.3	500	--				7.7	4.9	- 10.5	400	--			
Woman or partner lost job	15.3	11.9	- 18.7	1,100	22.0 *	3.5	- 40.5	<100	15.7	11.9	- 19.5	900	10.8 *	3.9	- 17.6	100
Woman or partner had pay or hours cut back	12.0	8.9	- 15.0	900	--				12.7	9.2	- 16.3	700	7.9 *	2.7	- 13.0	<100
Became separated or divorced	7.5	4.6	- 10.5	600	--				6.9	3.5	- 10.3	400	7.6 *	1.8	- 13.4	<100
Had no practical or emotional support	5.9	3.3	- 8.4	400	--				5.9	2.9	- 8.8	300	--			
Substance Use																
Any smoking, 3 months before pregnancy	13.2	9.7	- 16.7	1,000	--				13.7	9.6	- 17.8	800	12.1 *	4.5	- 19.8	100
Any smoking, 3rd trimester	4.8	2.0	- 7.5	400	--				5.8	2.4	- 9.2	300	--			
Any smoking, postpartum	9.3	6.0	- 12.5	700	--				9.7	5.8	- 13.5	600	8.0 *	1.5	- 14.6	<100
Any binge drinking, 3 months before pregnancy	16.6	13.2	- 20.1	1,200	--				16.4	12.6	- 20.3	1,000	23.5	13.1	- 33.8	300
Any alcohol use, 3rd trimester	4.9	2.5	- 7.3	400	--				5.0	2.2	- 7.7	300	--			
Any cannabis use during pregnancy	7.1	4.5	- 9.7	500	--				8.1	5.1	- 11.2	500	--			
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	32.1	27.6	- 36.5	2,400	52.0	30.4	- 73.6	200	33.1	28.0	- 38.1	1,900	18.8	9.9	- 27.6	200
Unsure of pregnancy intentions	14.6	11.4	- 17.8	1,100	28.2 *	7.6	- 48.7	100	12.4	9.2	- 15.6	700	21.8	11.8	- 31.8	200
Postpartum birth control use	84.4	80.7	- 88.0	6,100	78.7 *	60.5	- 97.0	300	84.5	80.4	- 88.7	4,900	85.3	77.6	- 93.0	900
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	84.2	81.0	- 87.4	6,200	77.0 *	58.7	- 95.2	300	84.1	80.5	- 87.7	4,900	87.3	79.8	- 94.7	1,000
Infant always or often shared bed	29.4	25.2	- 33.6	2,200	40.9	19.8	- 62.1	200	28.6	23.9	- 33.2	1,700	29.8	18.9	- 40.7	300
Intended to breastfeed, before birth	87.2	83.7	- 90.7	6,400	84.4 *	69.5	- 99.3	300	86.8	82.7	- 90.9	5,100	90.1 *	83.4	- 96.7	1,000
Intended to breastfeed exclusively, before birth	59.9	55.1	- 64.7	4,400	66.8	47.7	- 85.8	300	59.9	54.5	- 65.3	3,500	57.4	46.1	- 68.8	600
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	75.7	71.6	- 79.8	5,500	68.8 *	48.4	- 89.3	300	75.3	70.7	- 79.9	4,400	80.5	71.3	- 89.7	900
Exclusive breastfeeding, 1 month after delivery	41.6	36.8	- 46.4	2,900	48.1	26.2	- 69.9	200	42.8	37.4	- 48.2	2,400	32.5	21.4	- 43.5	300
Any breastfeeding, 3 months after delivery	59.8	54.3	- 65.3	3,400	59.7	37.1	- 82.2	200	57.6	51.3	- 63.8	2,600	71.7	59.9	- 83.5	600
Exclusive breastfeeding, 3 months after delivery	28.4	23.7	- 33.1	1,600	38.4 *	15.5	- 61.2	100	28.6	23.3	- 33.8	1,300	23.1	12.4	- 33.7	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	75.3 *	57.7 - 92.9	300	72.4	67.6 - 77.3	4,300	73.7	63.4 - 84.0	800
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	78.7 *	60.7 - 96.7	300	88.1	84.3 - 91.9	5,100	93.4 *	88.1 - 98.6	1,000
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	37.3	16.9 - 57.7	200	36.5	31.5 - 41.6	2,200	45.2	33.6 - 56.7	500
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	66.7 *	46.8 - 86.5	300	59.0	53.7 - 64.4	3,500	58.9	47.4 - 70.5	600
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	60.2	39.4 - 80.9	200	58.0	52.6 - 63.4	3,400	67.5	56.5 - 78.5	700
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	94.0 *	88.7 - 99.4	400	88.6	84.7 - 92.5	5,200	90.0 *	83.8 - 96.2	1,000
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	51.6	46.8 - 56.3	3,800	--			51.4	46.1 - 56.7	3,000	40.4	29.2 - 51.5	400
Uninsured	6.7	4.5 - 8.9	500	--			7.7	5.1 - 10.2	500	--		
Private	41.2	36.6 - 45.9	3,000	--			40.4	35.2 - 45.6	2,400	55.6	44.2 - 67.1	600
Prenatal insurance												
Medi-Cal	61.0	56.5 - 65.6	4,500	--			61.6	56.5 - 66.6	3,600	48.2	36.8 - 59.7	500
Uninsured	--			--			--			--		
Private	37.6	33.1 - 42.1	2,800	--			36.8	31.8 - 41.8	2,200	50.9	39.4 - 62.4	600
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	--			5.8	3.6 - 8.1	300	--		
Maternal postpartum insurance												
Medi-Cal	56.2	51.6 - 60.9	4,200	79.5 *	61.7 - 97.3	300	56.1	50.9 - 61.4	3,300	48.2	36.6 - 59.8	500
Uninsured	5.0	3.1 - 7.0	400	--			5.3	2.9 - 7.6	300	--		
Private	37.3	32.8 - 41.8	2,800	--			37.1	32.0 - 42.2	2,200	47.3	35.7 - 58.9	500
Infant health insurance												
Medi-Cal	63.5	59.0 - 68.0	4,700	--			63.4	58.3 - 68.4	3,700	54.0	42.4 - 65.5	600
Uninsured	1.6 *	0.3 - 2.9	100	--			--			--		
Private	33.5	29.1 - 37.9	2,500	--			33.8	28.9 - 38.7	2,000	44.0	32.5 - 55.6	500
Maternal Demographics												
First live birth	33.5	29.0 - 38.0	2,500	94.0 *	88.4 - 99.6	400	31.9	26.9 - 36.8	1,900	20.1	10.3 - 29.9	200
Less than high school education (or GED)	15.4	11.9 - 18.8	1,100	33.8 *	13.9 - 53.8	100	13.1	9.4 - 16.8	800	20.6	11.1 - 30.1	200
Unmarried	45.1	40.4 - 49.9	3,300	82.2 *	66.5 - 97.8	300	44.5	39.1 - 49.8	2,600	35.4	24.4 - 46.3	400
Race/Ethnicity												
White	34.5	30.0 - 39.0	2,500	15.5 *	1.5 - 29.4	<100	36.6	31.4 - 41.7	2,100	29.9	19.4 - 40.3	300
Hispanic	56.5	51.8 - 61.3	4,100	83.3 *	69.2 - 97.5	300	54.7	49.4 - 60.0	3,200	57.4	45.8 - 69.0	600
Asian/Pacific Islander	5.4	3.4 - 7.5	400	--			4.4	2.4 - 6.3	300	12.8 *	4.2 - 21.3	100
Black	2.6	1.2 - 4.1	200	--			3.3	1.5 - 5.1	200	--		
Born outside the U.S.	26.6	22.4 - 30.9	2,000	--			24.8	20.0 - 29.6	1,500	43.1	31.7 - 54.5	500
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	--			23.5	18.9 - 28.2	1,400	41.7	30.3 - 53.1	500
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	21.1 *	3.4 - 38.7	<100	10.6	7.5 - 13.8	600	14.2	5.9 - 22.5	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Stanislaus County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	15.4	11.9 - 18.8	1,100	26.4	22.3 - 30.5	1,900	37.7	33.0 - 42.4	2,800	20.6	17.0 - 24.2	1,500
Health Status before Pregnancy															
In good to excellent health	89.2	86.2 - 92.1	6,600	84.2	75.6 - 92.8	1,000	84.1	77.1 - 91.1	1,600	92.5	88.7 - 96.4	2,600	93.6 *	88.1 - 99.2	1,400
Chronic conditions															
Diabetes	2.3	1.0 - 3.5	200	--			2.8 *	0.4 - 5.3	<100	2.8 *	0.4 - 5.3	<100	--		
Hypertension	4.1 *	1.4 - 6.8	300	--			5.0 *	0.5 - 9.5	<100	--			--		
Asthma	11.0	7.5 - 14.5	800	--			13.2	6.6 - 19.8	200	15.9	8.7 - 23.1	400	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	19.3	9.9 - 28.7	200	23.1	15.6 - 30.5	400	32.6	25.3 - 39.9	900	55.5	46.0 - 65.0	800
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	38.6	25.7 - 51.4	400	29.0	20.6 - 37.3	500	26.4	19.5 - 33.3	700	29.3	20.5 - 38.1	400
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	33.0	20.9 - 45.1	300	32.7	24.3 - 41.2	600	37.6	29.2 - 46.0	1,000	24.4	15.5 - 33.3	400
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	31.7	18.8 - 44.5	300	21.1	13.9 - 28.3	400	22.6	16.0 - 29.2	500	18.8	11.2 - 26.3	300
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	38.9	26.1 - 51.8	400	42.3	32.9 - 51.7	700	43.6	35.8 - 51.5	1,000	49.6	39.6 - 59.6	700
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	34.4	22.0 - 46.8	400	24.4	16.4 - 32.5	500	19.7	13.8 - 25.6	500	15.0	7.5 - 22.5	200
Nutrition Program Participation															
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	77.7	67.2 - 88.2	900	66.8	57.8 - 75.8	1,300	44.0	36.0 - 51.9	1,200	17.5	9.6 - 25.4	200
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	50.0	37.7 - 62.4	600	34.6	26.4 - 42.9	700	30.0	22.3 - 37.8	800	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	16.0 *	4.6 - 27.4	200	8.0 *	2.2 - 13.8	200	13.3	7.0 - 19.6	400	6.5 *	1.5 - 11.5	<100
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	22.5	11.9 - 33.2	300	24.2	16.1 - 32.3	500	20.4	13.4 - 27.3	600	8.4	3.6 - 13.2	100
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	13.2 *	4.9 - 21.4	100	17.2	10.2 - 24.1	300	17.6	10.8 - 24.3	500	8.2 *	3.3 - 13.1	100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	6.9 *	0.5 - 13.2	<100	--			--			--		
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	13.9 *	4.2 - 23.7	200	7.2 *	2.9 - 11.4	100	6.4	3.1 - 9.7	200	--		
Woman or partner lost job	15.3	11.9 - 18.7	1,100	20.5	9.8 - 31.2	200	20.2	12.5 - 27.9	400	12.8	8.3 - 17.2	400	8.6 *	3.2 - 13.9	100
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	21.8	10.9 - 32.7	200	6.7 *	1.8 - 11.6	100	14.3	9.3 - 19.2	400	6.9 *	1.7 - 12.1	100
Became separated or divorced	7.5	4.6 - 10.5	600	5.4 *	0.2 - 10.6	<100	6.4 *	2.2 - 10.6	100	9.5 *	3.4 - 15.7	300	7.0 *	1.4 - 12.6	100
Had no practical or emotional support	5.9	3.3 - 8.4	400	10.1 *	3.2 - 17.1	100	7.2 *	2.0 - 12.4	100	5.5 *	0.7 - 10.4	200	--		
Substance Use															
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	11.1 *	3.3 - 19.0	100	16.4	9.7 - 23.0	300	15.4	8.6 - 22.3	400	5.3 *	0.7 - 10.0	<100
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	--			6.6 *	1.7 - 11.4	100	--			--		
Any smoking, postpartum	9.3	6.0 - 12.5	700	8.9 *	1.5 - 16.3	<100	12.0	5.9 - 18.0	200	10.6 *	4.1 - 17.1	300	--		
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	10.0 *	2.6 - 17.3	100	19.9	12.4 - 27.4	400	15.7	10.3 - 21.1	400	18.7	10.9 - 26.5	300
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	--			--			6.5 *	1.3 - 11.7	200	7.7 *	2.6 - 12.9	100
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	--			11.0	5.0 - 16.9	200	7.3 *	2.8 - 11.8	200	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	30.3	19.2 - 41.3	300	40.1	31.2 - 49.0	800	32.8	25.2 - 40.4	900	21.3	13.1 - 29.6	300
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	22.8	12.9 - 32.8	200	18.2	11.2 - 25.2	400	12.9	7.9 - 17.9	400	7.6 *	2.6 - 12.6	100
Postpartum birth control use	84.4	80.7 - 88.0	6,100	93.0 *	87.1 - 99.0	1,000	85.6	79.5 - 91.7	1,600	81.3	74.3 - 88.4	2,200	82.5	75.1 - 89.8	1,200
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	76.9	67.0 - 86.9	900	79.5	72.4 - 86.6	1,500	85.8	80.8 - 90.8	2,400	92.9 *	88.7 - 97.2	1,400
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	30.8	20.0 - 41.6	300	30.0	21.8 - 38.3	600	32.1	24.8 - 39.5	900	21.8	14.1 - 29.6	300
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	92.0 *	86.4 - 97.5	1,000	77.7	70.1 - 85.3	1,500	88.3	81.7 - 94.9	2,400	93.3 *	88.0 - 98.6	1,400
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	41.0	29.1 - 53.0	500	54.8	45.9 - 63.7	1,100	64.1	55.5 - 72.6	1,800	74.7	66.2 - 83.3	1,100
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	74.0	62.8 - 85.2	800	65.5	56.9 - 74.1	1,300	73.8	66.8 - 80.8	2,000	92.9 *	88.2 - 97.6	1,400
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	36.5	24.7 - 48.4	400	38.3	29.1 - 47.5	700	36.7	28.6 - 44.8	1,000	57.5	47.8 - 67.3	800
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	58.2	44.6 - 71.7	500	49.7	39.6 - 59.8	700	52.7	43.1 - 62.3	1,200	88.1	81.8 - 94.4	1,000
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	22.2	10.7 - 33.7	200	27.4	18.2 - 36.6	400	23.5	16.4 - 30.5	500	43.9	32.9 - 55.0	500

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MIHA Data Snapshot, Stanislaus County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	66.6	54.5 - 78.7	700	66.7	57.9 - 75.4	1,300	74.5	67.4 - 81.5	2,100	81.3	73.8 - 88.7	1,200
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	78.1	68.8 - 87.5	900	88.1	82.1 - 94.0	1,700	88.6	82.4 - 94.9	2,400	--		
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	27.4	16.5 - 38.2	300	33.2	24.9 - 41.6	600	36.7	28.9 - 44.4	1,000	54.2	44.5 - 63.8	800
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	51.6	39.2 - 64.0	600	58.2	49.5 - 66.9	1,100	58.5	50.1 - 66.9	1,600	68.7	59.8 - 77.5	1,000
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	69.3	57.8 - 80.8	800	55.9	46.8 - 64.9	1,100	54.0	45.7 - 62.3	1,500	67.2	58.2 - 76.2	1,000
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	83.9	75.9 - 91.9	1,000	87.5	81.0 - 94.0	1,700	88.1	81.7 - 94.5	2,400	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	51.6	46.8 - 56.3	3,800	81.2	72.4 - 89.9	900	69.0	60.5 - 77.5	1,300	46.1	37.9 - 54.3	1,300	17.7	10.3 - 25.1	300
Uninsured	6.7	4.5 - 8.9	500	11.1 *	3.8 - 18.4	100	9.9	4.6 - 15.2	200	4.9 *	2.0 - 7.8	100	--		
Private	41.2	36.6 - 45.9	3,000	6.8 *	1.7 - 11.8	<100	21.1	13.4 - 28.8	400	48.1	40.0 - 56.3	1,300	80.4	72.8 - 88.1	1,200
Prenatal insurance															
Medi-Cal	61.0	56.5 - 65.6	4,500	94.1 *	89.3 - 98.9	1,100	78.6	71.0 - 86.3	1,500	56.7	48.7 - 64.6	1,600	21.3	13.5 - 29.2	300
Uninsured	--			--			--			--			--		
Private	37.6	33.1 - 42.1	2,800	--			19.4	12.0 - 26.8	400	41.6	33.7 - 49.4	1,200	78.7	70.8 - 86.5	1,200
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	9.5 *	2.3 - 16.6	100	6.8 *	2.4 - 11.1	100	3.7 *	1.1 - 6.2	100	--		
Maternal postpartum insurance															
Medi-Cal	56.2	51.6 - 60.9	4,200	86.5	78.6 - 94.3	1,000	71.5	62.9 - 80.1	1,400	54.0	46.0 - 62.0	1,500	18.8	11.3 - 26.3	300
Uninsured	5.0	3.1 - 7.0	400	11.3 *	3.9 - 18.7	100	8.1 *	3.0 - 13.2	200	1.7 *	0.2 - 3.1	<100	--		
Private	37.3	32.8 - 41.8	2,800	--			18.2	10.7 - 25.8	400	42.8	34.9 - 50.7	1,200	77.8	69.8 - 85.7	1,200
Infant health insurance															
Medi-Cal	63.5	59.0 - 68.0	4,700	94.7 *	90.4 - 99.0	1,100	82.5	75.2 - 89.7	1,600	59.5	51.7 - 67.4	1,600	23.2	15.0 - 31.4	400
Uninsured	1.6 *	0.3 - 2.9	100	--			--			--			--		
Private	33.5	29.1 - 37.9	2,500	--			12.1	6.3 - 17.9	200	38.0	30.3 - 45.7	1,000	76.1	67.8 - 84.3	1,200
Maternal Demographics															
First live birth	33.5	29.0 - 38.0	2,500	20.4	10.6 - 30.3	200	28.3	20.2 - 36.5	600	35.1	27.3 - 42.9	1,000	46.4	36.7 - 56.2	700
Unmarried	45.1	40.4 - 49.9	3,300	57.3	45.0 - 69.6	700	57.7	48.8 - 66.5	1,100	46.9	38.6 - 55.2	1,300	16.5	9.4 - 23.6	300
Race/Ethnicity															
White	34.5	30.0 - 39.0	2,500	11.7 *	3.3 - 20.0	100	27.9	19.6 - 36.2	500	39.2	31.2 - 47.1	1,100	53.3	43.4 - 63.1	800
Hispanic	56.5	51.8 - 61.3	4,100	80.9	70.5 - 91.3	900	63.1	54.4 - 71.9	1,200	53.2	45.1 - 61.3	1,400	33.9	24.5 - 43.3	500
Asian/Pacific Islander	5.4	3.4 - 7.5	400	--			4.3 *	1.3 - 7.2	<100	5.0	2.1 - 8.0	100	9.1 *	2.6 - 15.7	100
Black	2.6	1.2 - 4.1	200	--			3.7 *	0.4 - 6.9	<100	2.5 *	0.2 - 4.8	<100	--		
Born outside the U.S.	26.6	22.4 - 30.9	2,000	59.7	47.8 - 71.6	700	31.9	23.6 - 40.2	600	14.4	8.3 - 20.6	400	17.1	9.0 - 25.2	300
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	58.2	46.0 - 70.3	700	30.7	22.4 - 39.0	600	12.2	6.5 - 18.0	300	18.9	10.7 - 27.1	300
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	30.3	19.0 - 41.5	300	10.5	5.1 - 16.0	200	9.9	5.6 - 14.1	300	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	44.0	39.1 - 49.0	3,000	83.9	75.4 - 92.3	800	61.9	52.6 - 71.1	1,100	35.8	27.6 - 44.0	1,000	10.1	4.5 - 15.7	100
101-200%	25.5	21.3 - 29.8	1,700	14.5	6.4 - 22.7	100	30.8	22.0 - 39.6	500	30.7	23.2 - 38.2	800	16.2	8.9 - 23.4	200
> 200%	30.4	26.0 - 34.8	2,100	--			7.3 *	2.3 - 12.3	100	33.5	26.0 - 41.0	900	73.7	65.1 - 82.3	1,000

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Stanislaus County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	69.3	65.1 - 73.5	5,100	30.7	26.5 - 34.9	2,200
Health Status before Pregnancy									
In good to excellent health	89.2	86.2 - 92.1	6,600	88.4	84.8 - 92.1	4,500	90.3	85.0 - 95.5	2,000
Chronic conditions									
Diabetes	2.3	1.0 - 3.5	200	1.8 *	0.5 - 3.2	<100	3.3 *	0.6 - 6.0	<100
Hypertension	4.1 *	1.4 - 6.8	300	5.0 *	1.2 - 8.8	200	--		
Asthma	11.0	7.5 - 14.5	800	9.4	5.1 - 13.8	500	13.6	7.7 - 19.5	300
Nutrition and Weight									
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	30.5	25.3 - 35.7	1,500	37.0	29.0 - 44.9	800
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	28.7	23.5 - 33.9	1,400	32.3	24.4 - 40.2	700
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	33.2	27.3 - 39.1	1,600	33.0	25.3 - 40.7	700
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	23.7	18.8 - 28.6	1,000	21.4	14.0 - 28.7	400
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	44.3	38.5 - 50.2	2,000	44.0	35.4 - 52.6	900
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	21.3	16.5 - 26.1	1,100	25.0	17.5 - 32.6	600
Nutrition Program Participation									
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	50.0	44.1 - 56.0	2,500	50.1	41.9 - 58.3	1,100
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	33.7	28.0 - 39.3	1,700	19.2	12.9 - 25.5	400
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	9.9	5.8 - 13.9	500	13.3	6.5 - 20.1	300
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	22.4	17.2 - 27.6	1,100	11.1	6.7 - 15.6	200
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	16.0	11.4 - 20.6	800	13.0	7.5 - 18.5	300
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	4.7 *	1.1 - 8.3	200	2.3 *	0.1 - 4.5	<100
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	5.5	3.1 - 8.0	300	10.3	4.9 - 15.8	200
Woman or partner lost job	15.3	11.9 - 18.7	1,100	13.6	9.8 - 17.4	700	20.1	13.2 - 27.0	400
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	11.0	7.5 - 14.4	500	15.0	8.8 - 21.3	300
Became separated or divorced	7.5	4.6 - 10.5	600	7.3	3.5 - 11.1	400	8.2	3.6 - 12.8	200
Had no practical or emotional support	5.9	3.3 - 8.4	400	7.5	3.9 - 11.0	400	2.7 *	0.5 - 4.9	<100
Substance Use									
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	13.4	8.8 - 17.9	700	13.2	7.8 - 18.6	300
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	5.2 *	1.4 - 9.0	300	4.0 *	1.1 - 6.9	<100
Any smoking, postpartum	9.3	6.0 - 12.5	700	9.8	5.5 - 14.1	500	8.3	3.7 - 12.9	200
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	15.8	11.6 - 20.0	800	17.8	11.9 - 23.8	400
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	5.1 *	1.9 - 8.3	300	4.8 *	1.4 - 8.1	100
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	6.9	3.6 - 10.3	300	7.8	3.8 - 11.8	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	30.4	24.9 - 35.8	1,500	34.2	26.5 - 41.9	800
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	16.6	12.3 - 20.8	800	11.1	6.5 - 15.6	200
Postpartum birth control use	84.4	80.7 - 88.0	6,100	86.7	82.3 - 91.0	4,300	81.1	74.8 - 87.5	1,800
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	84.7	80.8 - 88.5	4,200	84.9	79.6 - 90.3	1,900
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	30.2	25.0 - 35.4	1,500	26.5	19.5 - 33.5	600
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	86.7	82.1 - 91.3	4,400	87.8	82.7 - 92.9	1,900
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	58.9	53.0 - 64.9	3,000	62.4	54.7 - 70.1	1,400
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	75.1	70.0 - 80.2	3,700	77.4	70.6 - 84.1	1,700
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	42.5	36.6 - 48.4	2,100	39.9	31.5 - 48.3	800
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	59.3	52.3 - 66.3	2,300	60.5	51.7 - 69.2	1,100
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	28.9	23.1 - 34.7	1,100	27.3	19.0 - 35.7	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	73.1	67.8 - 78.4	3,700	72.9	65.5 - 80.3	1,600
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	87.9	83.6 - 92.2	4,400	89.6	85.0 - 94.1	2,000
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	40.0	34.3 - 45.7	2,000	33.5	25.9 - 41.1	700
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	58.8	52.8 - 64.7	2,900	59.3	51.4 - 67.2	1,300
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	58.5	52.6 - 64.4	2,900	62.1	54.2 - 69.9	1,400
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	88.5	84.1 - 92.8	4,500	92.2	88.4 - 95.9	2,100
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	51.6	46.8 - 56.3	3,800	53.2	47.3 - 59.0	2,700	47.5	39.4 - 55.5	1,100
Uninsured	6.7	4.5 - 8.9	500	6.7	4.0 - 9.4	300	7.1	3.1 - 11.1	200
Private	41.2	36.6 - 45.9	3,000	39.4	33.7 - 45.1	2,000	45.4	37.3 - 53.4	1,000
Prenatal insurance									
Medi-Cal	61.0	56.5 - 65.6	4,500	62.5	56.9 - 68.0	3,200	57.5	49.5 - 65.5	1,300
Uninsured	--			--			--		
Private	37.6	33.1 - 42.1	2,800	35.6	30.1 - 41.1	1,800	42.1	34.1 - 50.1	900
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	5.1	2.7 - 7.6	300	6.2 *	2.6 - 9.9	100
Maternal postpartum insurance									
Medi-Cal	56.2	51.6 - 60.9	4,200	57.5	51.7 - 63.2	2,900	52.9	44.8 - 61.0	1,200
Uninsured	5.0	3.1 - 7.0	400	5.4	2.9 - 7.9	300	4.1 *	1.0 - 7.1	<100
Private	37.3	32.8 - 41.8	2,800	35.6	30.0 - 41.1	1,800	41.8	33.8 - 49.8	900
Infant health insurance									
Medi-Cal	63.5	59.0 - 68.0	4,700	65.1	59.7 - 70.6	3,300	59.8	51.8 - 67.7	1,300
Uninsured	1.6 *	0.3 - 2.9	100	1.9 *	0.1 - 3.7	<100	--		
Private	33.5	29.1 - 37.9	2,500	32.0	26.7 - 37.2	1,600	37.4	29.5 - 45.3	800
Maternal Demographics									
Age									
15-19	5.4	3.2 - 7.7	400	5.4	2.5 - 8.2	300	4.9 *	1.4 - 8.4	100
20-34	79.6	75.9 - 83.4	5,900	79.7	75.1 - 84.4	4,000	79.2	72.9 - 85.5	1,800
35+	14.9	11.7 - 18.1	1,100	14.9	10.9 - 18.9	800	15.9	10.2 - 21.5	400
First live birth	33.5	29.0 - 38.0	2,500	33.1	27.5 - 38.7	1,700	33.1	25.5 - 40.7	700
Less than high school education (or GED)	15.4	11.9 - 18.8	1,100	16.7	12.3 - 21.0	800	11.6	6.1 - 17.2	300
Unmarried	45.1	40.4 - 49.9	3,300	47.8	41.9 - 53.7	2,400	40.2	32.4 - 48.1	900
Race/Ethnicity									
White	34.5	30.0 - 39.0	2,500	35.1	29.4 - 40.7	1,700	34.8	27.0 - 42.5	800
Hispanic	56.5	51.8 - 61.3	4,100	54.7	48.8 - 60.6	2,700	58.7	50.7 - 66.7	1,300
Asian/Pacific Islander	5.4	3.4 - 7.5	400	6.7	3.8 - 9.6	300	2.9 *	0.9 - 5.0	<100
Black	2.6	1.2 - 4.1	200	3.1 *	1.1 - 5.0	200	--		
Born outside the U.S.	26.6	22.4 - 30.9	2,000	26.4	21.2 - 31.7	1,300	27.9	20.2 - 35.5	600
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	25.9	20.7 - 31.0	1,300	26.0	18.6 - 33.4	600
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	15.7	11.7 - 19.7	800	--		
Income as a percent of the Federal Poverty Guideline									
0-100%	44.0	39.1 - 49.0	3,000	47.8	41.6 - 53.9	2,200	35.2	27.5 - 42.9	700
101-200%	25.5	21.3 - 29.8	1,700	23.0	17.8 - 28.1	1,100	31.3	23.7 - 38.8	600
> 200%	30.4	26.0 - 34.8	2,100	29.3	23.9 - 34.6	1,400	33.5	25.6 - 41.5	700

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Stanislaus County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	44.0	39.1 - 49.0	3,000	25.5	21.3 - 29.8	1,700	30.4	26.0 - 34.8	2,100
Health Status before Pregnancy												
In good to excellent health	89.2	86.2 - 92.1	6,600	85.2	79.9 - 90.5	2,600	89.5	83.6 - 95.3	1,600	96.4 *	93.4 - 99.5	2,000
Chronic conditions												
Diabetes	2.3	1.0 - 3.5	200	3.5 *	1.3 - 5.7	100	--			--		
Hypertension	4.1 *	1.4 - 6.8	300	6.8 *	0.7 - 12.8	200	--			--		
Asthma	11.0	7.5 - 14.5	800	12.4	5.7 - 19.2	400	13.0	6.7 - 19.3	200	8.5 *	3.2 - 13.8	200
Nutrition and Weight												
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	21.0	15.1 - 26.9	600	26.1	18.0 - 34.3	500	56.6	48.2 - 65.0	1,200
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	32.4	25.2 - 39.5	900	23.3	15.4 - 31.3	400	31.0	23.2 - 38.9	600
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	35.0	27.1 - 42.8	1,000	39.3	29.2 - 49.3	600	27.6	19.8 - 35.5	600
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	20.3	14.4 - 26.2	500	20.2	12.6 - 27.8	300	22.1	14.7 - 29.6	400
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	45.5	37.8 - 53.1	1,200	44.3	34.5 - 54.2	600	46.3	37.5 - 55.1	900
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	30.0	23.2 - 36.9	900	25.6	17.0 - 34.1	400	7.0 *	2.2 - 11.8	100
Nutrition Program Participation												
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	71.5	63.9 - 79.0	2,100	58.9	49.2 - 68.7	1,000	3.4 *	0.8 - 6.1	<100
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	56.3	48.6 - 63.9	1,700	19.5	12.2 - 26.7	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	14.6	8.0 - 21.1	400	14.0	6.7 - 21.2	200	--		
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	22.6	16.2 - 29.0	700	27.7	18.1 - 37.4	500	6.3	2.6 - 9.9	100
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	16.5	11.0 - 22.1	500	20.9	11.8 - 30.0	400	8.6	3.6 - 13.5	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	7.5 *	1.7 - 13.3	200	--			--		
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	7.7	3.8 - 11.6	200	11.4	5.7 - 17.1	200	--		
Woman or partner lost job	15.3	11.9 - 18.7	1,100	20.3	14.3 - 26.2	600	21.1	13.2 - 29.0	400	2.4 *	0.2 - 4.7	<100
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	14.0	9.3 - 18.7	400	15.0	7.8 - 22.2	300	5.4 *	1.6 - 9.2	100
Became separated or divorced	7.5	4.6 - 10.5	600	12.0	5.9 - 18.2	400	5.3 *	1.5 - 9.1	<100	3.0 *	0.2 - 5.8	<100
Had no practical or emotional support	5.9	3.3 - 8.4	400	10.0	4.6 - 15.5	300	5.1 *	1.2 - 9.0	<100	--		
Substance Use												
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	19.0	12.2 - 25.8	600	8.3	3.6 - 13.0	100	11.0	5.2 - 16.7	200
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	8.0 *	1.9 - 14.1	200	4.8 *	1.1 - 8.4	<100	--		
Any smoking, postpartum	9.3	6.0 - 12.5	700	13.9	7.3 - 20.4	400	6.6 *	2.1 - 11.2	100	6.1 *	1.3 - 10.9	100
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	11.1	6.7 - 15.4	300	18.3	10.7 - 26.0	300	22.6	15.3 - 30.0	500
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	2.7 *	0.5 - 5.0	<100	--			7.1 *	2.9 - 11.4	100
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	9.6	4.8 - 14.4	300	10.3 *	4.0 - 16.5	200	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	39.7	32.4 - 47.0	1,200	39.8	30.0 - 49.6	700	13.2	7.2 - 19.2	300
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	21.4	15.2 - 27.5	600	14.8	8.4 - 21.2	300	6.3 *	2.3 - 10.3	100
Postpartum birth control use	84.4	80.7 - 88.0	6,100	87.7	81.7 - 93.7	2,600	85.8	79.6 - 91.9	1,500	80.5	73.6 - 87.5	1,700
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	79.0	73.2 - 84.8	2,400	82.9	76.5 - 89.4	1,400	92.3	88.1 - 96.6	1,900
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	31.6	24.6 - 38.7	900	31.1	22.6 - 39.7	500	24.6	17.5 - 31.7	500
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	81.9	75.2 - 88.7	2,400	90.7 *	85.3 - 96.2	1,600	89.8	84.2 - 95.4	1,900
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	52.3	44.5 - 60.0	1,600	65.2	55.6 - 74.8	1,100	68.8	60.9 - 76.8	1,400
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	69.0	61.9 - 76.1	2,000	74.2	66.2 - 82.1	1,300	88.4	82.8 - 94.0	1,800
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	35.6	27.9 - 43.4	1,000	37.0	27.6 - 46.4	600	51.5	42.8 - 60.2	1,000
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	47.7	38.9 - 56.6	1,100	57.3	46.3 - 68.3	800	81.7	74.1 - 89.3	1,200
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	20.5	13.8 - 27.3	500	29.2	19.7 - 38.8	400	39.1	29.4 - 48.8	600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	72.8	68.5	77.1	5,400	69.1	62.2	76.0	2,100	67.9	58.3	77.5	1,200	83.6	77.1	90.1	1,700
Initiated prenatal care in 1st trimester	88.4	85.2	91.7	6,400	79.1	72.2	86.0	2,300	91.9	87.3	96.5	1,600	--			
Received dental care during pregnancy	37.9	33.3	42.4	2,800	29.5	22.3	36.7	900	31.6	23.0	40.1	600	52.6	44.0	61.2	1,100
Received a Tdap vaccine during pregnancy	59.4	54.7	64.2	4,400	56.8	49.0	64.7	1,700	55.5	45.8	65.2	1,000	68.2	60.3	76.1	1,400
Received a flu shot during pregnancy	59.5	54.8	64.3	4,400	58.9	51.0	66.8	1,800	58.4	48.9	67.8	1,000	59.5	50.9	68.0	1,200
Had a postpartum medical visit	89.1	85.9	92.4	6,600	84.0	77.8	90.2	2,500	90.9 *	84.8	97.0	1,600	96.6 *	93.4	99.8	2,000
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	51.6	46.8	56.3	3,800	83.6	78.4	88.9	2,500	46.0	36.5	55.4	800	6.6 *	1.9	11.3	100
Uninsured	6.7	4.5	8.9	500	8.6	4.7	12.5	300	7.6 *	2.8	12.4	100	3.7 *	0.5	6.8	<100
Private	41.2	36.6	45.9	3,000	7.5	3.8	11.2	200	45.4	35.6	55.2	800	89.7	84.2	95.2	1,900
Prenatal insurance																
Medi-Cal	61.0	56.5	65.6	4,500	94.4	91.4	97.4	2,800	64.1	54.8	73.4	1,100	6.5 *	2.0	11.0	100
Uninsured	--				--				--				--			
Private	37.6	33.1	42.1	2,800	4.7 *	1.9	7.5	100	34.5	25.2	43.7	600	90.9	85.7	96.1	1,900
Had any gaps in insurance during pregnancy	5.5	3.5	7.5	400	8.7	4.6	12.8	300	5.1 *	1.3	8.9	<100	2.6 *	0.2	5.1	<100
Maternal postpartum insurance																
Medi-Cal	56.2	51.6	60.9	4,200	87.8	83.0	92.6	2,600	60.6	51.3	69.9	1,100	4.9 *	1.4	8.3	100
Uninsured	5.0	3.1	7.0	400	5.4 *	2.2	8.6	200	6.3 *	2.2	10.3	100	--			
Private	37.3	32.8	41.8	2,800	5.6 *	2.1	9.1	200	30.4	21.5	39.3	500	92.9 *	88.6	97.2	1,900
Infant health insurance																
Medi-Cal	63.5	59.0	68.0	4,700	95.0 *	92.0	98.0	2,800	70.2	61.3	79.0	1,200	10.0	4.5	15.4	200
Uninsured	1.6 *	0.3	2.9	100	--				--				--			
Private	33.5	29.1	37.9	2,500	3.4 *	0.8	5.9	100	23.5	15.6	31.4	400	87.8	81.9	93.7	1,800
Maternal Demographics																
First live birth	33.5	29.0	38.0	2,500	28.5	21.7	35.4	900	34.4	24.7	44.0	600	44.0	35.4	52.5	900
Less than high school education (or GED)	15.4	11.9	18.8	1,100	26.6	19.8	33.3	800	7.9	3.4	12.5	100	--			
Unmarried	45.1	40.4	49.9	3,300	67.1	59.8	74.4	2,000	51.1	41.5	60.7	900	9.9	5.3	14.5	200
Race/Ethnicity																
White	34.5	30.0	39.0	2,500	18.8	12.4	25.1	600	32.3	23.4	41.3	600	63.0	54.6	71.4	1,300
Hispanic	56.5	51.8	61.3	4,100	70.3	63.2	77.4	2,100	61.3	52.0	70.6	1,100	27.2	19.6	34.8	500
Asian/Pacific Islander	5.4	3.4	7.5	400	5.9	2.7	9.1	200	--				8.7 *	3.3	14.0	200
Black	2.6	1.2	4.1	200	3.8 *	1.2	6.3	100	--				--			
Born outside the U.S.	26.6	22.4	30.9	2,000	33.5	26.1	40.8	1,000	25.4	17.4	33.4	400	10.4	5.0	15.8	200
Speaks non-English language at home	25.7	21.5	29.9	1,900	34.6	27.3	42.0	1,000	20.6	13.3	27.9	400	10.4	5.2	15.6	200
Lives in a high poverty neighborhood†	11.7	8.8	14.7	900	17.1	11.7	22.4	500	12.4	5.8	18.9	200	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Stanislaus County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			7,400	15.7	12.3	19.1	1,100	49.0	44.3	53.8	3,600	23.6	19.7	27.4	1,700	11.7	8.8	14.7	900
Health Status before Pregnancy																				
In good to excellent health	89.2	86.2	92.1	6,600	90.6 *	84.0	97.2	1,000	90.5	86.5	94.6	3,200	87.7	81.6	93.7	1,500	82.9 *	71.4	94.4	700
Chronic conditions																				
Diabetes	2.3	1.0	3.5	200	--				2.5 *	0.6	4.3	<100	--				--			
Hypertension	4.1 *	1.4	6.8	300	--				--				--				--			
Asthma	11.0	7.5	14.5	800	9.6 *	2.1	17.0	100	12.1	6.1	18.0	400	11.0	5.3	16.7	200	6.3 *	0.4	12.2	<100
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	32.6	28.3	37.0	2,400	49.5	37.8	61.2	600	32.9	26.6	39.2	1,200	26.6	18.4	34.7	500	19.9	8.5	31.4	200
Overweight before pregnancy†	29.4	25.0	33.7	2,000	24.5	14.3	34.6	300	32.1	25.5	38.6	1,100	31.7	22.6	40.8	500	24.2	13.2	35.2	200
Obese before pregnancy†	33.1	28.4	37.8	2,300	34.3	23.0	45.6	400	32.5	25.2	39.8	1,100	30.5	22.3	38.8	500	39.4	25.5	53.2	300
Inadequate weight gain during pregnancy†	22.6	18.6	26.6	1,500	22.5	12.4	32.5	200	22.5	16.7	28.3	700	20.9	12.7	29.0	300	30.3	17.5	43.2	200
Excessive weight gain during pregnancy†	43.9	39.1	48.7	2,800	45.9	34.0	57.8	500	44.7	37.7	51.8	1,300	47.1	37.4	56.8	700	33.5	19.7	47.3	200
Food insecurity during pregnancy	22.2	18.2	26.2	1,600	12.6 *	5.1	20.1	100	18.7	13.4	24.0	700	28.0	19.0	36.9	500	40.5	26.6	54.4	300
Nutrition Program Participation																				
Participated in WIC during pregnancy	50.3	45.5	55.1	3,700	27.2	16.5	37.8	300	44.0	36.9	51.0	1,500	62.5	53.1	71.9	1,100	79.8	69.6	90.0	700
Received CalFresh (food stamps) during pregnancy	29.0	24.7	33.4	2,200	17.6	8.0	27.3	200	24.9	18.5	31.2	900	31.8	23.2	40.4	500	57.9	44.8	71.1	500
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3	14.2	800	--				7.5 *	3.0	12.0	200	15.6	8.5	22.7	300	17.7 *	5.0	30.4	100
Prenatal depressive symptoms†	19.1	15.2	23.0	1,400	17.9	8.9	26.9	200	13.8	8.5	19.2	500	20.5	12.5	28.5	400	38.4	25.0	51.8	300
Postpartum depressive symptoms†	14.9	11.4	18.5	1,100	15.6	6.6	24.7	200	12.9	7.7	18.1	500	15.3	8.5	22.1	300	23.5	11.8	35.3	200
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	4.0 *	1.4	6.5	300	--				--				4.9 *	1.1	8.7	<100	--			
Moved due to problems paying rent or mortgage	6.9	4.5	9.3	500	--				5.1	2.3	8.0	200	16.2	8.9	23.5	300	--			
Woman or partner lost job	15.3	11.9	18.7	1,100	10.3	4.2	16.3	100	13.8	9.2	18.4	500	19.8	11.6	28.0	300	21.7	10.8	32.7	200
Woman or partner had pay or hours cut back	12.0	8.9	15.0	900	11.6 *	4.2	19.0	100	10.5	6.5	14.4	400	19.0	10.9	27.2	300	6.4 *	1.6	11.3	<100
Became separated or divorced	7.5	4.6	10.5	600	5.0 *	0.9	9.2	<100	7.1 *	2.1	12.1	300	5.4 *	1.5	9.3	<100	17.1 *	6.4	27.8	100
Had no practical or emotional support	5.9	3.3	8.4	400	--				4.9 *	0.8	8.9	200	5.7 *	1.6	9.7	<100	13.6 *	3.7	23.6	100
Substance Use																				
Any smoking, 3 months before pregnancy	13.2	9.7	16.7	1,000	14.0	6.0	21.9	200	13.0	7.3	18.8	500	14.6	7.9	21.2	300	11.1 *	3.3	18.9	<100
Any smoking, 3rd trimester	4.8	2.0	7.5	400	--				5.6 *	0.7	10.5	200	2.9 *	0.2	5.5	<100	--			
Any smoking, postpartum	9.3	6.0	12.5	700	8.4 *	1.5	15.2	<100	7.6 *	2.5	12.7	300	10.2 *	4.2	16.3	200	16.0 *	5.5	26.6	100
Any binge drinking, 3 months before pregnancy	16.6	13.2	20.1	1,200	20.3	10.7	29.9	200	16.3	11.4	21.1	600	19.2	11.5	26.9	300	--			
Any alcohol use, 3rd trimester	4.9	2.5	7.3	400	--				6.5 *	2.1	11.0	200	--				--			
Any cannabis use during pregnancy	7.1	4.5	9.7	500	--				4.9 *	2.0	7.8	200	13.3	6.0	20.6	200	--			
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	32.1	27.6	36.5	2,400	26.0	16.0	35.9	300	31.4	24.8	38.0	1,100	36.6	27.5	45.7	600	29.5	17.2	41.8	200
Unsure of pregnancy intentions	14.6	11.4	17.8	1,100	12.9 *	4.4	21.5	100	11.5	7.5	15.6	400	16.8	10.1	23.6	300	27.6	15.2	40.0	200
Postpartum birth control use	84.4	80.7	88.0	6,100	80.0	70.7	89.4	900	86.6	81.1	92.1	3,000	83.8	77.1	90.6	1,400	87.1 *	79.0	95.2	700
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	84.2	81.0	87.4	6,200	91.4 *	85.9	97.0	1,000	84.4	79.7	89.1	3,000	81.5	74.7	88.3	1,400	83.7	74.5	93.0	700
Infant always or often shared bed	29.4	25.2	33.6	2,200	30.8	19.6	42.0	400	26.6	20.9	32.3	900	29.6	21.0	38.2	500	35.9	22.8	49.0	300
Intended to breastfeed, before birth	87.2	83.7	90.7	6,400	89.8 *	83.2	96.4	1,000	86.2	80.4	92.0	3,100	89.0	83.5	94.6	1,500	82.7 *	71.6	93.9	700
Intended to breastfeed exclusively, before birth	59.9	55.1	64.7	4,400	59.6	48.2	71.1	700	60.4	53.2	67.6	2,100	63.3	54.2	72.4	1,100	52.1	38.4	65.7	400
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	75.7	71.6	79.8	5,500	76.1	65.1	87.1	800	78.3	72.7	83.8	2,700	74.8	66.2	83.3	1,300	67.0	54.4	79.7	600
Exclusive breastfeeding, 1 month after delivery	41.6	36.8	46.4	2,900	40.3	28.5	52.0	400	41.1	33.9	48.3	1,400	47.2	37.5	56.8	800	35.4	22.2	48.6	300
Any breastfeeding, 3 months after delivery	59.8	54.3	65.3	3,400	65.7	52.1	79.4	600	56.9	48.6	65.1	1,600	63.4	53.1	73.6	800	56.9	42.1	71.8	400
Exclusive breastfeeding, 3 months after delivery	28.4	23.7	33.1	1,600	26.9	15.4	38.3	200	26.4	19.8	33.0	700	36.1	25.6	46.5	400	24.9	11.8	37.9	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	72.8	68.5	77.1	5,400	80.6	71.6	89.5	900	70.8	64.2	77.3	2,500	70.5	61.8	79.2	1,200	77.3	65.8	88.9	700
Initiated prenatal care in 1st trimester	88.4	85.2	91.7	6,400	95.2 *	91.5	99.0	1,100	87.1	81.4	92.8	3,000	89.3	83.9	94.6	1,500	82.9	74.0	91.7	700
Received dental care during pregnancy	37.9	33.3	42.4	2,800	47.5	35.8	59.1	500	36.5	29.8	43.3	1,300	37.9	28.9	46.8	600	31.5	18.7	44.3	300
Received a Tdap vaccine during pregnancy	59.4	54.7	64.2	4,400	63.9	52.7	75.1	700	56.4	49.3	63.6	2,000	62.7	53.5	71.8	1,100	55.6	42.0	69.1	500
Received a flu shot during pregnancy	59.5	54.8	64.3	4,400	59.5	48.0	71.0	700	57.9	50.8	65.0	2,000	60.4	51.1	69.7	1,000	65.2	51.8	78.5	600
Had a postpartum medical visit	89.1	85.9	92.4	6,600	89.4 *	82.6	96.2	1,000	91.0	85.9	96.1	3,200	90.1 *	84.0	96.2	1,500	83.0	74.0	92.0	700
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	51.6	46.8	56.3	3,800	28.0	17.4	38.7	300	49.8	42.7	56.9	1,800	58.9	49.7	68.1	1,000	74.4	62.6	86.2	600
Uninsured	6.7	4.5	8.9	500	--				6.2	3.1	9.4	200	9.0	4.0	14.1	200	7.9 *	1.1	14.7	<100
Private	41.2	36.6	45.9	3,000	67.2	56.2	78.3	800	43.3	36.3	50.3	1,500	31.4	22.7	40.2	500	17.7 *	7.1	28.3	200
Prenatal insurance																				
Medi-Cal	61.0	56.5	65.6	4,500	32.1	21.2	43.0	400	59.2	52.5	65.9	2,100	72.8	64.3	81.3	1,200	83.3 *	72.8	93.8	700
Uninsured	--				--				--				--				--			
Private	37.6	33.1	42.1	2,800	64.7	53.5	75.9	700	39.3	32.7	46.0	1,400	26.3	17.9	34.8	500	16.7 *	6.2	27.2	100
Had any gaps in insurance during pregnancy	5.5	3.5	7.5	400	4.8 *	0.6	9.0	<100	4.4 *	1.6	7.2	200	8.3 *	3.1	13.4	100	--			
Maternal postpartum insurance																				
Medi-Cal	56.2	51.6	60.9	4,200	32.7	21.8	43.6	400	51.7	44.7	58.8	1,800	68.2	59.3	77.1	1,200	81.4	71.4	91.5	700
Uninsured	5.0	3.1	7.0	400	--				6.7	3.2	10.2	200	2.8 *	0.4	5.1	<100	6.5 *	0.8	12.2	<100
Private	37.3	32.8	41.8	2,800	62.1	50.7	73.4	700	40.2	33.4	46.9	1,400	28.0	19.3	36.8	500	12.0 *	3.3	20.7	100
Infant health insurance																				
Medi-Cal	63.5	59.0	68.0	4,700	31.9	21.0	42.8	400	61.1	54.4	67.8	2,200	76.7	68.7	84.7	1,300	89.2 *	81.1	97.3	800
Uninsured	1.6 *	0.3	2.9	100	--				--				--				--			
Private	33.5	29.1	37.9	2,500	64.4	53.1	75.6	700	36.9	30.3	43.5	1,300	18.6	11.7	25.5	300	9.0 *	1.3	16.7	<100
Maternal Demographics																				
Age																				
15-19	5.4	3.2	7.7	400	--				4.9 *	1.9	8.0	200	3.8 *	0.2	7.5	<100	9.4 *	1.1	17.7	<100
20-34	79.6	75.9	83.4	5,900	77.6	67.8	87.5	900	81.4	76.2	86.6	2,900	80.7	73.3	88.2	1,400	72.2	59.9	84.5	600
35+	14.9	11.7	18.1	1,100	17.3	9.0	25.7	200	13.7	9.2	18.1	500	15.4	8.6	22.2	300	18.4	7.8	29.0	200
First live birth	33.5	29.0	38.0	2,500	31.1	19.6	42.6	400	37.1	30.2	44.0	1,300	31.5	23.0	40.1	500	22.1	11.5	32.8	200
Less than high school education (or GED)	15.4	11.9	18.8	1,100	--				12.1	7.6	16.7	400	18.8	10.8	26.7	300	39.2	25.8	52.6	300
Unmarried	45.1	40.4	49.9	3,300	25.4	15.4	35.4	300	39.3	32.2	46.3	1,400	59.6	50.3	68.9	1,000	70.2	58.8	81.6	600
Race/Ethnicity																				
White	34.5	30.0	39.0	2,500	48.7	36.7	60.7	500	39.1	32.2	45.9	1,400	31.6	22.7	40.5	500	7.9 *	1.5	14.3	<100
Hispanic	56.5	51.8	61.3	4,100	39.4	27.6	51.1	400	52.0	44.9	59.0	1,800	61.4	52.2	70.6	1,100	81.4	71.4	91.5	700
Asian/Pacific Islander	5.4	3.4	7.5	400	7.1 *	0.7	13.5	<100	6.1	3.0	9.1	200	--				--			
Black	2.6	1.2	4.1	200	--				1.8 *	0.2	3.4	<100	--				--			
Born outside the U.S.	26.6	22.4	30.9	2,000	17.9	9.1	26.8	200	26.5	20.1	32.8	900	28.2	19.6	36.8	500	37.9	24.2	51.6	300
Speaks non-English language at home	25.7	21.5	29.9	1,900	13.1	5.6	20.6	100	23.5	17.3	29.7	800	29.3	20.7	38.0	500	46.2	32.7	59.7	400
Income as a percent of the Federal Poverty Guideline																				
0-100%	44.0	39.1	49.0	3,000	23.4	13.0	33.9	300	41.2	33.8	48.7	1,400	52.4	42.8	62.0	800	67.8	54.2	81.5	500
101-200%	25.5	21.3	29.8	1,700	17.2	9.0	25.5	200	25.8	19.4	32.1	900	29.2	20.3	38.0	500	28.5	15.1	41.9	200
> 200%	30.4	26.0	34.8	2,100	59.3	47.6	71.1	600	33.0	26.4	39.6	1,100	18.4	11.0	25.9	300	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).
Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA
Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Stanislaus County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	61.0	56.5 - 65.6	4,500	37.6	33.1 - 42.1	2,800
Health Status before Pregnancy									
In good to excellent health	89.2	86.2 - 92.1	6,600	86.2	82.0 - 90.4	3,900	93.8 *	89.9 - 97.6	2,600
Chronic conditions									
Diabetes	2.3	1.0 - 3.5	200	3.0	1.3 - 4.7	100	--		
Hypertension	4.1 *	1.4 - 6.8	300	5.1 *	1.0 - 9.2	200	--		
Asthma	11.0	7.5 - 14.5	800	12.1	7.1 - 17.0	500	9.4	4.7 - 14.2	300
Nutrition and Weight									
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	21.1	16.2 - 26.0	1,000	50.2	42.9 - 57.6	1,400
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	29.2	23.5 - 34.9	1,200	29.7	22.9 - 36.4	800
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	35.3	29.0 - 41.7	1,500	29.3	22.4 - 36.3	800
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	23.8	18.5 - 29.1	900	20.4	14.1 - 26.6	500
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	41.7	35.5 - 47.9	1,600	47.1	39.4 - 54.9	1,200
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	30.1	24.4 - 35.7	1,400	9.9	5.0 - 14.9	300
Nutrition Program Participation									
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	72.0	65.9 - 78.1	3,200	12.7	7.7 - 17.7	300
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	45.4	39.2 - 51.7	2,100	3.4 *	0.8 - 5.9	<100
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	15.4	10.1 - 20.6	700	3.6 *	0.3 - 6.8	<100
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	24.5	19.0 - 30.1	1,100	10.7	5.8 - 15.5	300
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	18.5	13.4 - 23.6	800	9.3	5.0 - 13.6	300
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	5.4 *	1.4 - 9.5	200	--		
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	8.7	5.2 - 12.1	400	3.8 *	1.0 - 6.5	100
Woman or partner lost job	15.3	11.9 - 18.7	1,100	21.4	16.4 - 26.3	900	6.2 *	2.3 - 10.1	200
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	13.1	9.2 - 17.1	600	10.3	5.5 - 15.2	300
Became separated or divorced	7.5	4.6 - 10.5	600	9.4	4.9 - 13.8	400	4.4 *	1.5 - 7.3	100
Had no practical or emotional support	5.9	3.3 - 8.4	400	7.7	3.8 - 11.6	300	2.5 *	0.3 - 4.7	<100
Substance Use									
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	16.1	11.1 - 21.2	700	8.7	4.4 - 13.0	200
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	7.4 *	3.0 - 11.8	300	--		
Any smoking, postpartum	9.3	6.0 - 12.5	700	12.8	7.9 - 17.7	600	3.9 *	0.8 - 7.0	100
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	13.4	9.5 - 17.4	600	22.6	16.0 - 29.1	600
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	4.7 *	1.3 - 8.2	200	5.4	2.3 - 8.5	200
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	9.3	5.6 - 13.0	400	3.5 *	0.1 - 6.8	<100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	39.1	33.1 - 45.2	1,800	21.2	14.8 - 27.5	600
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	18.1	13.6 - 22.5	800	9.0	4.6 - 13.4	200
Postpartum birth control use	84.4	80.7 - 88.0	6,100	86.9	82.2 - 91.5	3,800	81.2	75.5 - 86.9	2,300
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	81.6	77.2 - 86.0	3,700	88.9	84.4 - 93.4	2,500
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	32.7	27.0 - 38.4	1,500	23.3	17.3 - 29.4	600
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	86.2	81.3 - 91.0	3,900	88.3	83.3 - 93.4	2,400
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	54.0	47.7 - 60.3	2,400	68.1	61.1 - 75.0	1,900
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	69.9	64.2 - 75.6	3,100	84.3	78.9 - 89.7	2,300
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	36.6	30.4 - 42.9	1,600	49.3	41.8 - 56.8	1,300
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	49.9	42.8 - 57.1	1,800	75.6	68.4 - 82.8	1,600
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	22.5	16.9 - 28.0	800	38.2	30.2 - 46.3	800

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	64.2	58.2 - 70.3	2,900	88.1	83.3 - 92.9	2,500
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	83.2	78.2 - 88.2	3,700	96.6 *	94.2 - 99.0	2,600
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	31.3	25.5 - 37.1	1,400	48.5	41.2 - 55.9	1,300
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	55.1	48.8 - 61.4	2,500	66.9	59.9 - 73.8	1,800
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	59.2	52.9 - 65.5	2,600	61.6	54.3 - 68.9	1,700
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	85.0	80.2 - 89.8	3,800	95.6 *	91.9 - 99.4	2,700
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	51.6	46.8 - 56.3	3,800	81.7	76.8 - 86.5	3,700	4.9 *	1.8 - 8.1	100
Uninsured	6.7	4.5 - 8.9	500	9.1	5.9 - 12.4	400	--		
Private	41.2	36.6 - 45.9	3,000	8.9	5.0 - 12.9	400	94.8 *	91.5 - 98.0	2,600
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	6.7	3.8 - 9.7	300	--		
Maternal postpartum insurance									
Medi-Cal	56.2	51.6 - 60.9	4,200	89.2	85.3 - 93.0	4,000	4.7 *	1.5 - 7.9	100
Uninsured	5.0	3.1 - 7.0	400	6.5	3.5 - 9.4	300	2.1 *	0.3 - 3.8	<100
Private	37.3	32.8 - 41.8	2,800	4.0 *	1.4 - 6.6	200	92.0	88.1 - 95.9	2,600
Infant health insurance									
Medi-Cal	63.5	59.0 - 68.0	4,700	95.6	93.5 - 97.8	4,300	12.2	7.2 - 17.1	300
Uninsured	1.6 *	0.3 - 2.9	100	--			--		
Private	33.5	29.1 - 37.9	2,500	3.2 *	1.3 - 5.1	100	83.9	78.1 - 89.7	2,300
Maternal Demographics									
Age									
15-19	5.4	3.2 - 7.7	400	7.8	4.4 - 11.3	400	--		
20-34	79.6	75.9 - 83.4	5,900	80.4	75.7 - 85.1	3,600	78.1	71.8 - 84.4	2,200
35+	14.9	11.7 - 18.1	1,100	11.8	8.2 - 15.3	500	20.2	14.1 - 26.2	600
First live birth	33.5	29.0 - 38.0	2,500	29.4	23.7 - 35.2	1,300	40.8	33.5 - 48.2	1,100
Less than high school education (or GED)	15.4	11.9 - 18.8	1,100	23.7	18.3 - 29.0	1,100	--		
Unmarried	45.1	40.4 - 49.9	3,300	61.1	55.0 - 67.2	2,700	20.8	14.6 - 26.9	600
Race/Ethnicity									
White	34.5	30.0 - 39.0	2,500	21.7	16.5 - 26.9	1,000	55.2	47.7 - 62.7	1,500
Hispanic	56.5	51.8 - 61.3	4,100	68.8	63.1 - 74.5	3,100	36.3	29.1 - 43.6	1,000
Asian/Pacific Islander	5.4	3.4 - 7.5	400	4.9	2.6 - 7.3	200	6.5 *	2.5 - 10.6	200
Black	2.6	1.2 - 4.1	200	3.3 *	1.3 - 5.2	100	--		
Born outside the U.S.	26.6	22.4 - 30.9	2,000	35.2	29.2 - 41.3	1,600	12.6	7.6 - 17.5	300
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	33.8	27.9 - 39.8	1,500	12.3	7.5 - 17.0	300
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	16.0	11.7 - 20.4	700	5.2 *	1.7 - 8.7	100
Income as a percent of the Federal Poverty Guideline									
0-100%	44.0	39.1 - 49.0	3,000	69.3	63.5 - 75.2	2,800	5.4 *	2.1 - 8.6	100
101-200%	25.5	21.3 - 29.8	1,700	27.4	21.7 - 33.0	1,100	22.9	16.2 - 29.5	600
> 200%	30.4	26.0 - 34.8	2,100	3.3 *	1.0 - 5.7	100	71.8	64.8 - 78.8	1,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Stanislaus County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	56.5	51.8 - 61.3	4,100	2.6	1.2 - 4.1	200	34.5	30.0 - 39.0	2,500	5.4	3.4 - 7.5	400
Health Status before Pregnancy															
In good to excellent health	89.2	86.2 - 92.1	6,600	87.1	82.8 - 91.4	3,600	--			92.6	88.4 - 96.8	2,300	--		
Chronic conditions															
Diabetes	2.3	1.0 - 3.5	200	1.7 *	0.4 - 3.1	<100	--			--			--		
Hypertension	4.1 *	1.4 - 6.8	300	5.0 *	0.6 - 9.4	200	--			--			--		
Asthma	11.0	7.5 - 14.5	800	9.5	4.4 - 14.5	400	--			15.0	8.9 - 21.1	400	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	26.0	20.4 - 31.6	1,100	--			40.6	32.9 - 48.3	1,000	43.6	24.0 - 63.3	200
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	32.9	26.7 - 39.1	1,300	38.0 *	11.3 - 64.7	<100	23.5	16.9 - 30.1	600	30.1 *	12.2 - 48.0	100
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	34.4	27.9 - 41.0	1,300	43.4 *	16.2 - 70.5	<100	28.5	21.3 - 35.7	700	23.8 *	5.4 - 42.3	<100
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	21.4	16.2 - 26.6	800	--			19.6	13.0 - 26.2	400	32.8 *	13.3 - 52.2	100
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	42.7	36.3 - 49.1	1,500	57.9 *	29.1 - 86.7	100	47.5	39.2 - 55.8	1,000	29.4	12.4 - 46.5	100
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	23.4	17.9 - 28.8	900	31.2 *	6.6 - 55.9	<100	19.4	12.8 - 26.0	500	17.1 *	3.3 - 30.9	<100
Nutrition Program Participation															
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	66.7	60.2 - 73.2	2,700	51.9	24.7 - 79.1	<100	25.8	18.5 - 33.0	600	36.1	18.4 - 53.8	100
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	34.2	28.0 - 40.5	1,400	39.5 *	13.0 - 66.0	<100	18.9	12.9 - 24.9	500	27.8	12.1 - 43.5	100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	12.2	7.6 - 16.9	500	--			5.6 *	1.8 - 9.3	100	--		
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	21.1	15.4 - 26.7	900	40.0 *	13.5 - 66.5	<100	14.4	8.8 - 20.1	400	11.7 *	1.2 - 22.1	<100
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	12.2	7.5 - 16.9	500	--			17.8	11.8 - 23.7	400	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	5.7 *	1.3 - 10.1	200	--			--			--		
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	6.8	3.7 - 9.9	300	--			4.6 *	1.5 - 7.8	100	--		
Woman or partner lost job	15.3	11.9 - 18.7	1,100	18.3	13.4 - 23.2	700	38.6 *	11.6 - 65.6	<100	10.4	5.5 - 15.3	300	--		
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	12.6	8.4 - 16.7	500	27.1 *	4.5 - 49.6	<100	11.2	6.0 - 16.4	300	--		
Became separated or divorced	7.5	4.6 - 10.5	600	9.4	4.6 - 14.2	400	--			4.7 *	1.6 - 7.9	100	--		
Had no practical or emotional support	5.9	3.3 - 8.4	400	6.8	3.6 - 9.9	300	--			--			--		
Often experienced racism over her lifetime	10.6	7.3 - 13.8	800	12.1	7.2 - 16.9	500	37.6 *	11.6 - 63.6	<100	6.4 *	2.2 - 10.7	200	--		
Substance Use															
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	7.5 *	3.1 - 12.0	300	--			22.0	15.3 - 28.6	500	12.5 *	1.0 - 24.1	<100
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	--			--			7.2	3.1 - 11.4	200	--		
Any smoking, postpartum	9.3	6.0 - 12.5	700	5.4 *	1.0 - 9.7	200	--			14.1	8.3 - 19.8	400	--		
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	15.7	11.4 - 20.0	600	--			19.7	13.1 - 26.4	500	--		
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	5.3 *	1.5 - 9.2	200	--			5.5 *	2.2 - 8.8	100	--		
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	4.1 *	1.5 - 6.6	200	28.8 *	5.8 - 51.7	<100	10.2	4.8 - 15.6	300	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	36.7	30.4 - 43.0	1,500	47.6	20.4 - 74.7	<100	24.5	17.7 - 31.4	600	32.1	14.7 - 49.5	100
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	16.5	12.0 - 21.0	700	--			10.9	6.0 - 15.7	300	13.0 *	2.3 - 23.6	<100
Postpartum birth control use	84.4	80.7 - 88.0	6,100	87.3	82.3 - 92.3	3,500	61.1 *	34.7 - 87.4	100	83.1	77.2 - 88.9	2,100	80.2 *	66.5 - 93.8	300
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	81.2	76.4 - 85.9	3,300	--			87.7	83.0 - 92.4	2,200	87.3 *	75.3 - 99.4	300
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	31.6	25.7 - 37.5	1,300	32.6 *	7.9 - 57.3	<100	25.0	18.5 - 31.4	600	37.4	19.0 - 55.8	100
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	86.6	81.5 - 91.8	3,500	57.6 *	30.5 - 84.7	100	90.1	85.5 - 94.8	2,200	--		
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	52.9	46.4 - 59.4	2,200	54.4 *	27.2 - 81.5	100	75.1	67.6 - 82.6	1,900	38.9	20.4 - 57.5	200
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	74.7	69.1 - 80.4	3,000	42.9 *	16.0 - 69.8	<100	80.7	74.5 - 86.9	2,000	69.5 *	51.1 - 88.0	300
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	39.9	33.3 - 46.5	1,600	--			47.4	39.3 - 55.6	1,100	38.4	18.6 - 58.1	100
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	55.0	47.6 - 62.4	1,800	--			70.9	61.6 - 80.1	1,300	69.0 *	48.9 - 89.1	200
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	23.0	17.1 - 29.0	700	--			41.0	32.0 - 50.1	700	21.2 *	3.6 - 38.9	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	71.8	65.8 - 77.7	2,900	55.1 *	28.1 - 82.0	100	74.1	66.9 - 81.3	1,900	77.1 *	61.1 - 93.2	300
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	85.1	79.9 - 90.2	3,400	--			93.5	89.9 - 97.2	2,300	--		
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	32.2	26.4 - 38.0	1,300	--			48.0	39.9 - 56.0	1,200	43.2	23.1 - 63.3	200
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	59.1	52.6 - 65.6	2,400	40.2 *	14.0 - 66.3	<100	62.0	54.0 - 70.0	1,500	53.3	33.8 - 72.9	200
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	64.8	58.5 - 71.0	2,600	40.2 *	14.0 - 66.3	<100	51.0	42.9 - 59.1	1,300	67.4	48.6 - 86.2	300
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	88.8	84.0 - 93.6	3,600	38.4 *	13.3 - 63.5	<100	93.6 *	89.6 - 97.6	2,300	85.4 *	73.2 - 97.6	300
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	51.6	46.8 - 56.3	3,800	61.7	55.4 - 68.0	2,500	69.7 *	44.7 - 94.7	100	33.8	25.9 - 41.7	800	47.3	28.1 - 66.4	200
Uninsured	6.7	4.5 - 8.9	500	9.5	6.1 - 13.0	400	--			2.4 *	0.1 - 4.6	<100	--		
Private	41.2	36.6 - 45.9	3,000	28.3	22.4 - 34.2	1,200	--			63.2	55.2 - 71.1	1,600	45.7	26.1 - 65.4	200
Prenatal insurance															
Medi-Cal	61.0	56.5 - 65.6	4,500	75.1	69.8 - 80.4	3,100	--			38.7	30.8 - 46.7	1,000	55.8	36.0 - 75.5	200
Uninsured	--			--			--			--			--		
Private	37.6	33.1 - 42.1	2,800	23.7	18.5 - 29.0	1,000	--			59.0	51.0 - 67.0	1,500	44.2	24.5 - 64.0	200
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	5.8	3.1 - 8.5	200	--			3.8 *	1.0 - 6.6	<100	--		
Maternal postpartum insurance															
Medi-Cal	56.2	51.6 - 60.9	4,200	68.0	62.1 - 73.8	2,800	67.7 *	41.9 - 93.6	100	36.4	28.6 - 44.2	900	57.0	37.2 - 76.9	200
Uninsured	5.0	3.1 - 7.0	400	8.0	4.6 - 11.3	300	--			--			--		
Private	37.3	32.8 - 41.8	2,800	23.0	17.8 - 28.2	900	--			60.1	52.2 - 68.0	1,500	41.1	21.2 - 61.0	200
Infant health insurance															
Medi-Cal	63.5	59.0 - 68.0	4,700	80.0	75.2 - 84.9	3,200	67.7 *	41.9 - 93.6	100	38.6	30.6 - 46.7	1,000	58.9	39.0 - 78.8	200
Uninsured	1.6 *	0.3 - 2.9	100	--			--			--			--		
Private	33.5	29.1 - 37.9	2,500	18.2	13.5 - 22.9	700	--			55.4	47.2 - 63.5	1,400	41.1	21.2 - 61.0	200
Maternal Demographics															
Age															
15-19	5.4	3.2 - 7.7	400	7.4	3.9 - 10.8	300	--			2.2 *	0.1 - 4.4	<100	--		
20-34	79.6	75.9 - 83.4	5,900	77.5	72.3 - 82.7	3,200	--			84.8	79.5 - 90.2	2,100	64.0	44.5 - 83.5	300
35+	14.9	11.7 - 18.1	1,100	15.1	10.8 - 19.4	600	--			12.9	7.9 - 17.9	300	34.9	15.4 - 54.4	100
First live birth	33.5	29.0 - 38.0	2,500	30.7	24.7 - 36.7	1,300	--			37.5	29.8 - 45.2	900	36.2	16.1 - 56.4	100
Less than high school education (or GED)	15.4	11.9 - 18.8	1,100	22.4	17.1 - 27.7	900	--			5.2 *	1.3 - 9.1	100	--		
Unmarried	45.1	40.4 - 49.9	3,300	54.2	47.8 - 60.6	2,200	75.0 *	50.8 - 99.2	100	32.8	25.4 - 40.2	800	20.9 *	7.0 - 34.8	<100
Born outside the U.S.	26.6	22.4 - 30.9	2,000	38.6	32.4 - 44.8	1,600	--			--			57.2	38.2 - 76.2	200
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	38.3	32.1 - 44.5	1,600	--			--			58.4	39.6 - 77.2	200
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	17.3	12.5 - 22.0	700	--			2.7 *	0.5 - 4.9	<100	--		
Income as a percent of the Federal Poverty Guideline															
0-100%	44.0	39.1 - 49.0	3,000	56.4	49.7 - 63.0	2,100	57.5 *	30.1 - 84.9	100	23.3	15.8 - 30.8	600	46.3	26.4 - 66.1	200
101-200%	25.5	21.3 - 29.8	1,700	28.7	22.7 - 34.8	1,100	--			23.4	16.5 - 30.3	600	--		
> 200%	30.4	26.0 - 34.8	2,100	14.9	10.3 - 19.4	500	--			53.3	45.0 - 61.5	1,300	46.3	25.9 - 66.6	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Stanislaus County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,400	33.5	29.0 - 38.0	2,500	66.5	62.0 - 71.0	4,900
Health Status before Pregnancy									
In good to excellent health	89.2	86.2 - 92.1	6,600	90.0	85.1 - 94.9	2,200	88.8	85.1 - 92.5	4,400
Chronic conditions									
Diabetes	2.3	1.0 - 3.5	200	2.5 *	0.3 - 4.7	<100	2.2 *	0.7 - 3.6	100
Hypertension	4.1 *	1.4 - 6.8	300	--			4.7 *	1.0 - 8.5	200
Asthma	11.0	7.5 - 14.5	800	11.4	5.9 - 16.9	300	10.7	6.2 - 15.3	500
Nutrition and Weight									
Daily folic acid use, month before pregnancy	32.6	28.3 - 37.0	2,400	36.1	28.2 - 44.0	900	30.9	25.7 - 36.0	1,500
Overweight before pregnancy†	29.4	25.0 - 33.7	2,000	25.1	18.1 - 32.2	600	31.6	26.2 - 37.1	1,400
Obese before pregnancy†	33.1	28.4 - 37.8	2,300	34.6	26.1 - 43.0	800	32.3	26.7 - 37.9	1,500
Inadequate weight gain during pregnancy†	22.6	18.6 - 26.6	1,500	14.5	8.7 - 20.3	300	26.9	21.7 - 32.1	1,100
Excessive weight gain during pregnancy†	43.9	39.1 - 48.7	2,800	54.5	46.1 - 63.0	1,200	38.3	32.7 - 44.0	1,600
Food insecurity during pregnancy	22.2	18.2 - 26.2	1,600	19.5	13.2 - 25.7	500	23.7	18.6 - 28.8	1,200
Nutrition Program Participation									
Participated in WIC during pregnancy	50.3	45.5 - 55.1	3,700	40.5	32.5 - 48.5	1,000	55.3	49.5 - 61.1	2,700
Received CalFresh (food stamps) during pregnancy	29.0	24.7 - 33.4	2,200	18.2	12.2 - 24.2	500	34.5	28.9 - 40.1	1,700
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	10.8	7.3 - 14.2	800	15.3	7.7 - 22.8	400	8.5	5.0 - 12.1	400
Prenatal depressive symptoms†	19.1	15.2 - 23.0	1,400	15.2	8.3 - 22.1	400	21.1	16.3 - 25.9	1,000
Postpartum depressive symptoms†	14.9	11.4 - 18.5	1,100	16.3	9.2 - 23.5	400	14.2	10.3 - 18.2	700
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	4.0 *	1.4 - 6.5	300	--			4.6 *	1.0 - 8.1	200
Moved due to problems paying rent or mortgage	6.9	4.5 - 9.3	500	8.4	4.0 - 12.7	200	6.1	3.3 - 8.9	300
Woman or partner lost job	15.3	11.9 - 18.7	1,100	13.9	8.4 - 19.5	300	16.0	11.8 - 20.2	800
Woman or partner had pay or hours cut back	12.0	8.9 - 15.0	900	11.5	6.2 - 16.8	300	12.2	8.5 - 15.9	600
Became separated or divorced	7.5	4.6 - 10.5	600	7.6	3.3 - 11.9	200	7.5	3.6 - 11.4	400
Had no practical or emotional support	5.9	3.3 - 8.4	400	4.0 *	1.0 - 7.1	<100	6.8	3.3 - 10.3	300
Substance Use									
Any smoking, 3 months before pregnancy	13.2	9.7 - 16.7	1,000	10.3	5.6 - 15.1	300	14.6	9.9 - 19.3	700
Any smoking, 3rd trimester	4.8	2.0 - 7.5	400	--			6.7 *	2.7 - 10.7	300
Any smoking, postpartum	9.3	6.0 - 12.5	700	5.6 *	2.1 - 9.1	100	11.1	6.6 - 15.6	500
Any binge drinking, 3 months before pregnancy	16.6	13.2 - 20.1	1,200	18.5	12.2 - 24.8	500	15.7	11.5 - 19.9	800
Any alcohol use, 3rd trimester	4.9	2.5 - 7.3	400	7.2 *	1.2 - 13.1	200	3.8	1.8 - 5.8	200
Any cannabis use during pregnancy	7.1	4.5 - 9.7	500	8.0	3.5 - 12.5	200	6.6	3.4 - 9.8	300
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	32.1	27.6 - 36.5	2,400	30.9	22.9 - 38.9	800	32.6	27.3 - 38.0	1,600
Unsure of pregnancy intentions	14.6	11.4 - 17.8	1,100	14.5	8.5 - 20.5	400	14.7	10.9 - 18.5	700
Postpartum birth control use	84.4	80.7 - 88.0	6,100	81.2	74.9 - 87.5	2,000	85.9	81.5 - 90.4	4,200
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	84.2	81.0 - 87.4	6,200	85.1	79.2 - 90.9	2,100	83.8	79.9 - 87.6	4,100
Infant always or often shared bed	29.4	25.2 - 33.6	2,200	33.8	26.1 - 41.5	800	27.2	22.2 - 32.2	1,300
Intended to breastfeed, before birth	87.2	83.7 - 90.7	6,400	87.5	81.8 - 93.2	2,200	87.0	82.6 - 91.4	4,300
Intended to breastfeed exclusively, before birth	59.9	55.1 - 64.7	4,400	67.7	59.5 - 76.0	1,700	56.0	50.2 - 61.8	2,800
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	75.7	71.6 - 79.8	5,500	77.7	70.7 - 84.6	1,900	74.7	69.7 - 79.8	3,600
Exclusive breastfeeding, 1 month after delivery	41.6	36.8 - 46.4	2,900	40.1	32.0 - 48.3	1,000	42.3	36.4 - 48.2	2,000
Any breastfeeding, 3 months after delivery	59.8	54.3 - 65.3	3,400	62.5	53.2 - 71.8	1,200	58.3	51.6 - 65.1	2,200
Exclusive breastfeeding, 3 months after delivery	28.4	23.7 - 33.1	1,600	29.1	20.8 - 37.4	600	28.0	22.4 - 33.7	1,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Stanislaus County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Stanislaus County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization									
Had a usual source of pre-pregnancy care	72.8	68.5 - 77.1	5,400	64.4	56.2 - 72.6	1,600	77.0	72.2 - 81.8	3,800
Initiated prenatal care in 1st trimester	88.4	85.2 - 91.7	6,400	94.2 *	90.5 - 98.0	2,300	85.5	81.1 - 90.0	4,100
Received dental care during pregnancy	37.9	33.3 - 42.4	2,800	34.9	27.2 - 42.6	900	39.4	33.7 - 45.0	1,900
Received a Tdap vaccine during pregnancy	59.4	54.7 - 64.2	4,400	66.7	58.6 - 74.8	1,700	55.7	49.9 - 61.5	2,700
Received a flu shot during pregnancy	59.5	54.8 - 64.3	4,400	63.4	55.6 - 71.3	1,600	57.5	51.6 - 63.4	2,800
Had a postpartum medical visit	89.1	85.9 - 92.4	6,600	94.8	92.0 - 97.5	2,400	86.3	81.7 - 90.9	4,200
Health Insurance Coverage									
Pre-pregnancy insurance									
Medi-Cal	51.6	46.8 - 56.3	3,800	35.5	27.7 - 43.3	900	59.7	54.2 - 65.2	2,900
Uninsured	6.7	4.5 - 8.9	500	10.1	5.1 - 15.0	300	5.0	2.9 - 7.2	200
Private	41.2	36.6 - 45.9	3,000	54.4	46.2 - 62.7	1,400	34.6	29.3 - 39.9	1,700
Prenatal insurance									
Medi-Cal	61.0	56.5 - 65.6	4,500	53.6	45.3 - 61.8	1,300	64.8	59.4 - 70.1	3,200
Uninsured	--			--			--		
Private	37.6	33.1 - 42.1	2,800	45.8	37.5 - 54.0	1,100	33.4	28.2 - 38.7	1,600
Had any gaps in insurance during pregnancy	5.5	3.5 - 7.5	400	8.6	3.9 - 13.4	200	3.9	2.0 - 5.7	200
Maternal postpartum insurance									
Medi-Cal	56.2	51.6 - 60.9	4,200	45.5	37.2 - 53.8	1,100	61.7	56.2 - 67.2	3,000
Uninsured	5.0	3.1 - 7.0	400	4.7 *	1.2 - 8.2	100	5.2	2.8 - 7.6	300
Private	37.3	32.8 - 41.8	2,800	48.6	40.3 - 57.0	1,200	31.5	26.3 - 36.7	1,500
Infant health insurance									
Medi-Cal	63.5	59.0 - 68.0	4,700	55.5	47.2 - 63.7	1,400	67.6	62.3 - 72.8	3,300
Uninsured	1.6 *	0.3 - 2.9	100	--			1.9 *	0.1 - 3.8	<100
Private	33.5	29.1 - 37.9	2,500	42.5	34.2 - 50.7	1,000	29.0	24.0 - 34.0	1,400
Maternal Demographics									
Age									
15-19	5.4	3.2 - 7.7	400	15.2	8.9 - 21.5	400	0.5 *	0.1 - 0.9	<100
20-34	79.6	75.9 - 83.4	5,900	75.8	68.5 - 83.2	1,900	81.6	77.4 - 85.7	4,000
35+	14.9	11.7 - 18.1	1,100	9.0	4.2 - 13.7	200	17.9	13.8 - 22.1	900
Less than high school education (or GED)	15.4	11.9 - 18.8	1,100	9.4	4.6 - 14.3	200	18.4	13.8 - 22.9	900
Unmarried	45.1	40.4 - 49.9	3,300	47.6	39.2 - 55.9	1,200	43.9	38.2 - 49.7	2,200
Race/Ethnicity									
White	34.5	30.0 - 39.0	2,500	39.4	31.3 - 47.6	900	32.1	26.7 - 37.5	1,600
Hispanic	56.5	51.8 - 61.3	4,100	52.8	44.4 - 61.2	1,300	58.4	52.7 - 64.1	2,800
Asian/Pacific Islander	5.4	3.4 - 7.5	400	6.0 *	1.6 - 10.4	100	5.2	3.0 - 7.4	300
Black	2.6	1.2 - 4.1	200	--			3.2 *	1.3 - 5.2	200
Born outside the U.S.	26.6	22.4 - 30.9	2,000	16.9	10.6 - 23.1	400	31.6	26.1 - 37.0	1,600
Speaks non-English language at home	25.7	21.5 - 29.9	1,900	20.7	14.0 - 27.5	500	28.2	22.9 - 33.4	1,400
Lives in a high poverty neighborhood†	11.7	8.8 - 14.7	900	7.8	3.8 - 11.9	200	13.6	9.7 - 17.6	700
Income as a percent of the Federal Poverty Guideline									
0-100%	44.0	39.1 - 49.0	3,000	36.2	28.0 - 44.4	900	48.2	42.2 - 54.2	2,100
101-200%	25.5	21.3 - 29.8	1,700	25.3	17.4 - 33.1	600	25.7	20.7 - 30.7	1,100
> 200%	30.4	26.0 - 34.8	2,100	38.5	30.2 - 46.8	900	26.1	21.1 - 31.2	1,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Stanislaus County, n=385).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Stanislaus County was 576. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Tulare County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	7.8	5.2 - 10.4	500	78.2	74.2 - 82.1	5,400	14.1	10.7 - 17.4	1,000
Health Status before Pregnancy												
In good to excellent health	87.0	83.9 - 90.1	6,000	90.0 *	80.3 - 99.7	500	87.6	84.3 - 90.9	4,800	81.6	70.8 - 92.4	800
Chronic conditions												
Diabetes	3.0 *	1.2 - 4.9	200	--			2.6 *	0.5 - 4.8	100	7.3 *	1.2 - 13.3	<100
Hypertension	4.1 *	1.2 - 7.1	300	--			4.0 *	0.5 - 7.5	200	--		
Asthma	9.7	6.8 - 12.6	700	16.6 *	2.4 - 30.8	<100	9.0	6.0 - 12.1	500	9.5 *	1.8 - 17.1	<100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	18.7 *	3.8 - 33.6	100	27.3	22.8 - 31.7	1,500	37.2	24.1 - 50.4	400
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	24.4	10.3 - 38.5	100	28.8	23.7 - 33.9	1,500	31.6	18.9 - 44.3	300
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	--			34.0	29.1 - 38.9	1,800	40.1	27.7 - 52.6	400
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	39.5	21.4 - 57.6	200	25.0	20.5 - 29.5	1,200	26.2	12.7 - 39.6	200
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	39.3	21.6 - 57.1	200	43.3	38.2 - 48.5	2,100	41.8	28.5 - 55.1	300
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	--			16.8	13.1 - 20.5	900	19.7	10.5 - 28.9	200
Nutrition Program Participation												
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	--			66.2	61.2 - 71.2	3,600	70.3	59.1 - 81.5	700
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	46.3	28.7 - 63.8	200	44.0	38.7 - 49.2	2,400	50.8	38.3 - 63.3	500
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	--			10.3	6.4 - 14.2	600	--		
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	24.0 *	8.9 - 39.1	100	21.1	16.5 - 25.8	1,100	19.2	8.1 - 30.4	200
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	17.3 *	4.0 - 30.5	<100	16.9	13.0 - 20.8	900	19.4	8.7 - 30.1	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	--			2.5	1.1 - 3.9	100	--		
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	--			6.5	2.8 - 10.2	300	--		
Woman or partner lost job	16.7	12.7 - 20.7	1,100	14.4 *	2.1 - 26.6	<100	17.6	12.9 - 22.3	900	13.1 *	4.0 - 22.2	100
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	--			10.1	6.0 - 14.2	500	--		
Became separated or divorced	8.4	6.0 - 10.8	600	--			8.2	5.6 - 10.8	400	9.5 *	2.1 - 16.9	<100
Had no practical or emotional support	6.8	4.6 - 9.0	500	--			6.4	3.9 - 8.9	300	9.0 *	2.8 - 15.1	<100
Substance Use												
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	--			7.9	5.3 - 10.5	400	10.1 *	1.2 - 18.9	<100
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	--			2.2 *	0.8 - 3.7	100	--		
Any smoking, postpartum	3.4	1.9 - 4.9	200	--			3.4	1.8 - 5.0	200	--		
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	--			15.4	11.7 - 19.1	800	8.3 *	2.1 - 14.4	<100
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	--			2.9	1.4 - 4.4	200	--		
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	--			4.4	2.3 - 6.6	200	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	44.0	26.6 - 61.4	200	29.4	24.4 - 34.3	1,600	22.7	12.1 - 33.4	200
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	21.4 *	7.3 - 35.5	100	18.3	14.2 - 22.4	1,000	14.3 *	4.4 - 24.2	100
Postpartum birth control use	86.9	83.8 - 89.9	5,900	84.9 *	72.1 - 97.8	500	86.7	83.2 - 90.1	4,600	89.3 *	82.2 - 96.4	800
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	85.7 *	71.9 - 99.4	500	82.9	78.3 - 87.5	4,500	81.4	71.7 - 91.0	800
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	56.3	39.0 - 73.6	300	37.2	32.0 - 42.4	2,000	29.5	18.0 - 41.0	300
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	88.4 *	77.8 - 99.0	500	87.9	84.6 - 91.3	4,700	90.3 *	82.2 - 98.4	800
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	44.1	27.1 - 61.2	200	51.6	46.4 - 56.8	2,800	52.2	39.1 - 65.2	500
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	72.7	57.3 - 88.2	400	72.1	67.5 - 76.7	3,800	82.3	73.1 - 91.6	800
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	49.8	31.9 - 67.6	300	41.4	36.3 - 46.6	2,200	35.9	22.7 - 49.1	300
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	32.0	14.5 - 49.5	100	51.3	45.4 - 57.3	2,100	64.5	51.0 - 78.0	500
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	14.4 *	1.8 - 26.9	<100	23.8	18.9 - 28.8	1,000	22.0	10.2 - 33.9	200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	--				78.8	74.7	83.0	4,300	86.4 *	77.1	95.6	800
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	87.3 *	76.6	98.0	400	91.5	88.7	94.3	4,900	78.6 *	65.8	91.3	800
Received dental care during pregnancy	41.2	36.6	45.9	2,900	29.2	14.1	44.3	200	40.9	35.8	46.1	2,200	50.0	37.0	63.0	500
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	34.9	18.7	51.0	200	49.9	44.7	55.1	2,700	50.1	37.1	63.1	500
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	65.8	48.8	82.8	400	56.8	51.5	62.0	3,000	50.9	37.8	63.9	500
Had a postpartum medical visit	87.5	84.4	90.6	6,100	78.9 *	63.9	94.0	400	89.2	86.1	92.2	4,800	82.9 *	72.1	93.8	800
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	61.6	57.2	66.1	4,300	89.7 *	80.9	98.5	500	59.8	54.7	64.9	3,200	56.3	44.0	68.7	600
Uninsured	9.3	6.9	11.8	600	--				8.9	6.2	11.7	500	13.2 *	5.4	20.9	100
Private	27.9	23.8	32.0	1,900	--				30.2	25.4	35.0	1,600	29.1	18.3	39.8	300
Prenatal insurance																
Medi-Cal	75.6	71.6	79.5	5,200	--				73.7	69.1	78.3	4,000	72.5	61.9	83.2	700
Uninsured	--				--				--				--			
Private	22.8	18.9	26.6	1,600	--				24.4	19.9	29.0	1,300	26.0	15.6	36.4	300
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	--				7.2	4.8	9.7	400	--			
Maternal postpartum insurance																
Medi-Cal	68.7	64.5	72.9	4,700	--				67.7	62.9	72.6	3,600	59.5	47.4	71.6	600
Uninsured	7.0	4.8	9.1	500	--				6.6	4.2	9.0	400	11.6 *	4.3	18.9	100
Private	23.4	19.6	27.3	1,600	--				24.9	20.4	29.4	1,300	27.0	16.4	37.5	300
Infant health insurance																
Medi-Cal	75.7	71.8	79.7	5,200	--				74.7	70.1	79.2	4,000	70.3	59.2	81.4	700
Uninsured	2.0 *	0.8	3.2	100	--				1.9 *	0.5	3.3	100	--			
Private	20.9	17.2	24.7	1,400	--				22.0	17.6	26.3	1,200	26.8	16.1	37.4	300
Maternal Demographics																
First live birth	30.1	25.9	34.3	2,100	83.9 *	71.2	96.6	500	28.3	23.7	32.9	1,500	10.1 *	3.6	16.5	<100
Less than high school education (or GED)	20.3	16.2	24.4	1,400	42.4	25.0	59.8	200	16.9	12.5	21.3	900	26.8	15.2	38.4	300
Unmarried	52.1	47.4	56.7	3,600	85.7 *	73.8	97.6	500	50.9	45.6	56.1	2,700	39.9	27.0	52.8	400
Race/Ethnicity																
White	19.6	16.0	23.3	1,400	--				20.3	16.1	24.5	1,100	22.4	12.7	32.0	200
Hispanic	75.0	71.0	79.0	5,200	--				73.3	68.6	78.0	4,000	76.3	66.4	86.1	700
Asian/Pacific Islander	2.9	1.2	4.7	200	--				3.5 *	1.3	5.7	200	--			
Black	1.1 *	0.2	1.9	<100	--				1.1 *	0.1	2.2	<100	--			
Born outside the U.S.	30.3	25.9	34.8	2,100	24.7 *	9.5	40.0	100	26.6	21.8	31.5	1,400	54.0	41.3	66.7	500
Speaks non-English language at home	29.5	25.1	33.9	2,000	28.2	13.2	43.1	200	26.2	21.4	31.0	1,400	48.5	35.7	61.4	500
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	66.8	50.4	83.2	300	43.3	38.3	48.3	2,200	51.9	39.1	64.7	500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Tulare County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	20.3	16.2 - 24.4	1,400	28.2	24.0 - 32.3	1,900	37.0	32.5 - 41.6	2,500	14.5	11.6 - 17.5	1,000
Health Status before Pregnancy															
In good to excellent health	87.0	83.9 - 90.1	6,000	85.4	78.1 - 92.7	1,200	84.1	77.5 - 90.6	1,600	87.6	82.6 - 92.7	2,200	93.0 *	87.9 - 98.2	900
Chronic conditions															
Diabetes	3.0 *	1.2 - 4.9	200	--			--			--			--		
Hypertension	4.1 *	1.2 - 7.1	300	--			--			3.2 *	0.6 - 5.7	<100	--		
Asthma	9.7	6.8 - 12.6	700	12.2 *	4.2 - 20.2	200	7.3 *	2.2 - 12.3	100	10.1	5.6 - 14.6	300	9.2 *	2.9 - 15.6	<100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	21.3	11.9 - 30.7	300	24.4	16.9 - 31.9	500	27.1	20.2 - 34.0	700	45.2	34.6 - 55.8	400
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	35.2	22.6 - 47.8	500	25.7	18.2 - 33.2	500	27.7	20.3 - 35.0	700	29.2	19.7 - 38.7	300
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	36.3	25.4 - 47.2	500	36.6	28.2 - 45.0	700	33.4	26.4 - 40.5	800	21.5	12.6 - 30.3	200
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	28.4	18.5 - 38.4	300	29.6	21.3 - 38.0	500	24.3	17.0 - 31.7	600	25.6	16.3 - 34.9	200
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	40.8	30.4 - 51.3	400	40.4	31.4 - 49.4	700	44.4	36.5 - 52.3	1,000	44.3	33.5 - 55.1	400
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	21.0	13.1 - 28.9	300	16.8	10.6 - 23.0	300	19.1	13.2 - 25.0	500	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	91.7 *	86.3 - 97.0	1,300	81.0	73.6 - 88.4	1,600	61.7	54.1 - 69.3	1,500	30.6	21.0 - 40.1	300
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	65.4	55.0 - 75.7	900	56.3	47.6 - 64.9	1,100	36.8	29.6 - 44.1	900	15.4	8.3 - 22.4	200
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	--			10.9 *	3.8 - 18.0	200	11.9	6.2 - 17.7	300	--		
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	23.7	11.2 - 36.2	300	18.9	12.1 - 25.6	400	26.5	19.8 - 33.2	700	9.1 *	3.2 - 15.1	<100
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	18.2	10.0 - 26.4	200	16.7	10.0 - 23.4	300	18.9	12.6 - 25.2	500	12.3 *	5.0 - 19.6	100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	4.3 *	0.6 - 7.9	<100	3.8 *	0.6 - 7.0	<100	3.5 *	1.0 - 6.0	<100	--		
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	13.0 *	0.8 - 25.3	200	5.7 *	1.9 - 9.6	100	3.5 *	1.0 - 6.1	<100	--		
Woman or partner lost job	16.7	12.7 - 20.7	1,100	23.1	10.2 - 36.0	300	11.0	5.6 - 16.3	200	22.0	15.4 - 28.5	600	5.9 *	1.5 - 10.3	<100
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	--			5.4 *	1.7 - 9.2	100	10.8	6.0 - 15.6	300	--		
Became separated or divorced	8.4	6.0 - 10.8	600	8.2 *	3.1 - 13.4	100	12.8	7.1 - 18.4	200	6.9	3.2 - 10.6	200	4.9 *	1.0 - 8.8	<100
Had no practical or emotional support	6.8	4.6 - 9.0	500	15.0	7.5 - 22.4	200	3.4 *	0.6 - 6.1	<100	5.9	2.5 - 9.3	200	--		
Substance Use															
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	8.8 *	2.0 - 15.7	100	9.2	4.3 - 14.1	200	9.1	5.1 - 13.1	200	--		
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	6.4 *	0.2 - 12.5	<100	--			2.4 *	0.2 - 4.5	<100	--		
Any smoking, postpartum	3.4	1.9 - 4.9	200	4.1 *	0.4 - 7.7	<100	--			4.1 *	1.5 - 6.7	100	--		
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	11.7	5.6 - 17.9	200	10.6	5.1 - 16.0	200	17.6	11.9 - 23.4	400	14.8	7.1 - 22.6	100
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	--			--			2.4 *	0.2 - 4.5	<100	8.1 *	2.6 - 13.6	<100
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	--			6.8 *	1.9 - 11.7	100	4.1 *	1.4 - 6.8	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	35.5	23.7 - 47.4	500	31.9	23.8 - 40.1	600	28.9	22.0 - 35.8	700	17.5	9.5 - 25.5	200
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	16.7	8.1 - 25.3	200	19.7	12.2 - 27.3	400	21.6	15.4 - 27.9	500	6.8 *	1.8 - 11.7	<100
Postpartum birth control use	86.9	83.8 - 89.9	5,900	88.8	82.7 - 94.8	1,200	83.7	77.0 - 90.4	1,600	89.6	84.9 - 94.2	2,300	84.1	76.5 - 91.8	800
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	74.9	61.9 - 87.8	1,000	81.2	74.3 - 88.0	1,600	87.0	82.1 - 92.0	2,200	88.3	81.8 - 94.7	900
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	45.4	33.5 - 57.4	600	39.1	30.6 - 47.5	800	38.4	30.9 - 45.9	1,000	21.6	12.9 - 30.3	200
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	85.3	78.3 - 92.3	1,200	83.8	77.2 - 90.4	1,600	90.7	86.3 - 95.1	2,300	94.1 *	88.7 - 99.5	900
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	33.0	22.8 - 43.2	400	40.5	32.1 - 49.0	800	61.6	54.1 - 69.1	1,500	68.8	58.9 - 78.8	700
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	68.1	58.0 - 78.1	900	67.5	59.3 - 75.7	1,300	75.2	68.8 - 81.7	1,900	87.0 *	79.2 - 94.7	900
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	26.9	17.1 - 36.7	300	35.2	26.8 - 43.6	700	49.0	41.2 - 56.8	1,200	50.9	40.2 - 61.5	500
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	54.3	41.7 - 67.0	600	44.3	34.6 - 54.0	700	47.6	38.8 - 56.5	900	68.0	56.4 - 79.5	500
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	16.6	7.5 - 25.6	200	19.4	11.9 - 27.0	300	19.9	12.7 - 27.1	400	41.1	29.2 - 53.0	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				<High School				High School Graduate or GED				Some College				College Graduate			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	86.3	80.0	92.6	1,200	71.7	63.6	79.7	1,400	82.2	76.4	88.0	2,100	86.9	79.9	94.0	900
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	81.3	72.9	89.7	1,100	88.9	83.2	94.7	1,700	90.2	84.9	95.5	2,200	--			
Received dental care during pregnancy	41.2	36.6	45.9	2,900	37.3	25.5	49.2	500	35.8	27.6	44.1	700	40.9	33.3	48.6	1,000	56.9	46.4	67.4	600
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	33.2	23.2	43.2	500	54.6	45.8	63.3	1,100	55.4	47.8	62.9	1,400	45.9	35.2	56.5	400
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	57.1	44.9	69.3	800	61.7	53.1	70.3	1,200	53.5	45.8	61.2	1,300	52.9	42.2	63.7	500
Had a postpartum medical visit	87.5	84.4	90.6	6,100	74.9	64.8	84.9	1,000	85.3	79.2	91.3	1,600	92.0	88.0	95.9	2,300	96.7 *	93.4	99.9	1,000
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	61.6	57.2	66.1	4,300	76.4	68.2	84.6	1,000	74.3	66.6	81.9	1,400	58.4	50.7	66.0	1,500	23.4	14.9	31.8	200
Uninsured	9.3	6.9	11.8	600	17.8	10.5	25.1	200	11.6	6.1	17.0	200	4.8 *	1.6	7.9	100	5.0 *	0.7	9.4	<100
Private	27.9	23.8	32.0	1,900	4.6 *	1.0	8.1	<100	13.7	7.4	19.9	300	35.2	27.8	42.6	900	70.5	61.2	79.7	700
Prenatal insurance																				
Medi-Cal	75.6	71.6	79.5	5,200	--				88.5	82.6	94.5	1,700	71.4	64.3	78.6	1,800	27.7	18.7	36.7	300
Uninsured	--				--				--				--				--			
Private	22.8	18.9	26.6	1,600	--				10.7	4.9	16.6	200	26.9	19.9	33.9	700	68.9	59.5	78.3	700
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	8.1 *	2.0	14.1	100	7.9 *	3.2	12.6	100	5.6	2.4	8.9	100	7.4 *	2.1	12.7	<100
Maternal postpartum insurance																				
Medi-Cal	68.7	64.5	72.9	4,700	84.3	78.0	90.7	1,200	81.5	74.6	88.5	1,600	67.3	59.9	74.7	1,700	23.1	14.7	31.4	200
Uninsured	7.0	4.8	9.1	500	12.3	6.7	17.8	200	7.8 *	3.2	12.4	100	4.1 *	0.8	7.4	100	5.9 *	1.2	10.7	<100
Private	23.4	19.6	27.3	1,600	--				10.7	4.9	16.4	200	26.9	19.9	33.9	700	69.9	60.6	79.2	700
Infant health insurance																				
Medi-Cal	75.7	71.8	79.7	5,200	96.3 *	92.9	99.6	1,300	89.4	83.7	95.1	1,700	72.9	65.9	80.0	1,800	26.9	17.8	36.0	300
Uninsured	2.0 *	0.8	3.2	100	--				--				2.7 *	0.1	5.3	<100	--			
Private	20.9	17.2	24.7	1,400	--				10.1	4.5	15.7	200	21.1	14.5	27.7	500	70.2	60.8	79.7	700
Maternal Demographics																				
First live birth	30.1	25.9	34.3	2,100	23.6	14.2	33.0	300	29.0	21.1	36.8	600	31.4	24.4	38.4	800	36.7	26.4	47.0	400
Unmarried	52.1	47.4	56.7	3,600	68.4	58.6	78.3	1,000	61.5	53.0	70.1	1,200	49.3	41.6	57.1	1,200	18.2	10.4	25.9	200
Race/Ethnicity																				
White	19.6	16.0	23.3	1,400	5.7 *	1.1	10.2	<100	12.0	6.2	17.9	200	24.5	17.6	31.3	600	42.9	32.4	53.5	400
Hispanic	75.0	71.0	79.0	5,200	92.7 *	87.7	97.7	1,300	81.9	74.8	89.0	1,600	70.0	62.7	77.3	1,800	49.0	38.4	59.7	500
Asian/Pacific Islander	2.9	1.2	4.7	200	--				5.3 *	0.6	9.9	100	--				--			
Black	1.1 *	0.2	1.9	<100	--				--				--				--			
Born outside the U.S.	30.3	25.9	34.8	2,100	60.5	49.9	71.1	800	31.1	23.1	39.0	600	15.3	9.5	21.1	400	21.6	12.8	30.4	200
Speaks non-English language at home	29.5	25.1	33.9	2,000	62.5	52.0	73.0	900	29.9	22.4	37.3	600	17.1	11.0	23.2	400	14.8	7.4	22.2	100
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	61.0	51.2	70.9	800	57.6	48.7	66.4	1,100	38.1	30.5	45.7	900	25.0	15.6	34.4	200
Income as a percent of the Federal Poverty Guideline																				
0-100%	52.1	47.3	57.0	3,300	84.5	76.2	92.7	1,000	66.3	57.5	75.2	1,100	38.4	30.9	45.9	900	18.6	10.7	26.5	200
101-200%	26.7	22.4	31.0	1,700	13.8	5.9	21.8	200	25.4	17.4	33.5	400	38.7	31.0	46.5	900	14.6	7.2	22.0	100
> 200%	21.2	17.2	25.1	1,300	--				8.3 *	2.8	13.7	100	22.9	15.9	29.8	600	66.8	56.9	76.7	600

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Tulare County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	43.9	39.3 - 48.5	2,900	56.1	51.5 - 60.7	3,700
Health Status before Pregnancy									
In good to excellent health	87.0	83.9 - 90.1	6,000	88.4	83.9 - 93.0	2,600	84.9	80.4 - 89.4	3,200
Chronic conditions									
Diabetes	3.0 *	1.2 - 4.9	200	4.0 *	0.4 - 7.5	100	2.6 *	0.4 - 4.8	<100
Hypertension	4.1 *	1.2 - 7.1	300	1.8 *	0.3 - 3.2	<100	3.8 *	1.1 - 6.4	100
Asthma	9.7	6.8 - 12.6	700	9.1	4.8 - 13.4	300	10.6	6.5 - 14.7	400
Nutrition and Weight									
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	28.2	22.0 - 34.4	800	28.9	23.1 - 34.7	1,100
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	30.7	24.0 - 37.4	900	26.1	20.7 - 31.5	1,000
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	29.4	23.1 - 35.7	800	36.6	30.6 - 42.6	1,400
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	25.1	18.9 - 31.4	600	28.4	22.4 - 34.5	900
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	44.9	37.7 - 52.1	1,100	40.9	34.6 - 47.1	1,400
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	16.7	11.7 - 21.6	500	16.6	12.1 - 21.1	600
Nutrition Program Participation									
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	64.0	57.3 - 70.7	1,800	70.7	64.9 - 76.4	2,600
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	42.4	35.6 - 49.2	1,200	44.8	38.6 - 51.0	1,600
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	6.0 *	1.9 - 10.1	200	11.9	7.0 - 16.8	400
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	17.4	12.3 - 22.6	500	22.0	16.7 - 27.2	800
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	16.9	11.3 - 22.5	500	17.4	12.7 - 22.2	600
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	2.8 *	0.8 - 4.8	<100	3.5 *	1.4 - 5.7	100
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	2.7 *	0.8 - 4.5	<100	6.3	3.3 - 9.2	200
Woman or partner lost job	16.7	12.7 - 20.7	1,100	12.5	7.8 - 17.2	400	17.9	12.9 - 22.9	600
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	5.8	2.5 - 9.1	200	7.7	4.4 - 11.0	300
Became separated or divorced	8.4	6.0 - 10.8	600	7.0	3.6 - 10.4	200	8.8	5.5 - 12.2	300
Had no practical or emotional support	6.8	4.6 - 9.0	500	4.9	2.2 - 7.6	100	8.5	5.0 - 11.9	300
Substance Use									
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	8.1	4.4 - 11.7	200	8.6	5.0 - 12.2	300
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	2.1 *	0.2 - 4.1	<100	3.6 *	0.9 - 6.3	100
Any smoking, postpartum	3.4	1.9 - 4.9	200	3.1 *	0.9 - 5.3	<100	3.5	1.5 - 5.6	100
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	19.6	14.1 - 25.2	600	9.6	6.0 - 13.1	400
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	4.1 *	1.6 - 6.6	100	1.6 *	0.4 - 2.9	<100
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	2.9 *	0.5 - 5.3	<100	4.6	1.9 - 7.3	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	24.4	18.6 - 30.2	700	31.9	26.1 - 37.6	1,200
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	20.5	14.5 - 26.5	600	16.8	12.0 - 21.6	600
Postpartum birth control use	86.9	83.8 - 89.9	5,900	89.8	85.3 - 94.2	2,600	85.0	80.6 - 89.3	3,100
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	86.2	81.2 - 91.1	2,500	83.2	78.5 - 87.9	3,100
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	30.6	24.1 - 37.1	900	40.4	34.4 - 46.5	1,500
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	87.8	83.3 - 92.4	2,500	89.0	85.1 - 93.0	3,300
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	50.4	43.4 - 57.4	1,500	52.6	46.4 - 58.9	1,900
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	73.4	67.2 - 79.6	2,100	73.3	67.9 - 78.8	2,700
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	42.2	35.2 - 49.3	1,200	42.6	36.3 - 48.8	1,500
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	48.3	40.4 - 56.2	1,100	54.5	47.6 - 61.5	1,600
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	20.7	14.3 - 27.2	500	26.3	20.2 - 32.4	700

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	82.6	77.3	87.9	2,400	79.6	74.7	84.6	3,000
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	91.8	88.1	95.5	2,600	87.4	82.8	92.1	3,200
Received dental care during pregnancy	41.2	36.6	45.9	2,900	43.6	36.7	50.5	1,300	39.1	33.2	45.1	1,500
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	52.9	45.9	59.8	1,500	46.6	40.5	52.8	1,700
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	64.9	58.3	71.5	1,800	50.7	44.4	56.9	1,900
Had a postpartum medical visit	87.5	84.4	90.6	6,100	89.4	85.3	93.5	2,600	85.6	81.0	90.3	3,200
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	61.6	57.2	66.1	4,300	58.1	51.2	64.9	1,700	63.4	57.5	69.3	2,300
Uninsured	9.3	6.9	11.8	600	8.9	5.1	12.8	300	10.1	6.7	13.6	400
Private	27.9	23.8	32.0	1,900	32.4	25.9	38.9	900	24.7	19.3	30.2	900
Prenatal insurance												
Medi-Cal	75.6	71.6	79.5	5,200	71.6	65.3	77.8	2,100	78.3	73.0	83.5	2,900
Uninsured	--				--				--			
Private	22.8	18.9	26.6	1,600	27.3	21.1	33.5	800	19.5	14.5	24.6	700
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	6.7	3.4	10.0	200	7.3	4.0	10.5	300
Maternal postpartum insurance												
Medi-Cal	68.7	64.5	72.9	4,700	63.9	57.3	70.6	1,800	71.5	65.9	77.1	2,600
Uninsured	7.0	4.8	9.1	500	6.7	3.3	10.1	200	7.6	4.6	10.6	300
Private	23.4	19.6	27.3	1,600	29.0	22.8	35.3	800	19.8	14.7	24.8	700
Infant health insurance												
Medi-Cal	75.7	71.8	79.7	5,200	70.2	63.8	76.6	2,000	78.8	73.7	84.0	2,900
Uninsured	2.0 *	0.8	3.2	100	3.4 *	0.8	6.0	<100	--			
Private	20.9	17.2	24.7	1,400	25.2	19.1	31.2	700	18.8	13.8	23.7	700
Maternal Demographics												
Age												
15-19	7.8	5.2	10.4	500	9.2	4.9	13.5	300	6.7	3.3	10.0	200
20-34	78.2	74.2	82.1	5,400	78.6	73.0	84.3	2,300	77.0	71.3	82.6	2,900
35+	14.1	10.7	17.4	1,000	12.2	7.9	16.5	400	16.4	11.3	21.4	600
First live birth	30.1	25.9	34.3	2,100	32.7	26.1	39.2	1,000	28.2	22.7	33.7	1,100
Less than high school education (or GED)	20.3	16.2	24.4	1,400	18.2	13.1	23.3	500	20.8	15.6	26.0	800
Unmarried	52.1	47.4	56.7	3,600	52.7	45.8	59.7	1,500	48.2	42.0	54.4	1,800
Race/Ethnicity												
White	19.6	16.0	23.3	1,400	24.4	18.2	30.6	700	16.9	12.4	21.4	600
Hispanic	75.0	71.0	79.0	5,200	69.5	62.9	76.1	2,000	77.8	72.8	82.9	2,900
Asian/Pacific Islander	2.9	1.2	4.7	200	4.3 *	1.2	7.4	100	--			
Black	1.1 *	0.2	1.9	<100	--				1.4 *	0.2	2.6	<100
Born outside the U.S.	30.3	25.9	34.8	2,100	26.3	20.3	32.3	800	32.3	26.4	38.2	1,200
Speaks non-English language at home	29.5	25.1	33.9	2,000	26.8	20.8	32.9	800	30.8	25.1	36.5	1,100
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	37.2	30.6	43.8	1,100	53.6	47.4	59.7	2,000
Income as a percent of the Federal Poverty Guideline												
0-100%	52.1	47.3	57.0	3,300	44.8	37.6	52.0	1,200	55.8	49.4	62.2	1,900
101-200%	26.7	22.4	31.0	1,700	27.9	21.2	34.7	700	26.3	20.6	32.0	900
> 200%	21.2	17.2	25.1	1,300	27.3	20.7	33.9	700	17.9	12.9	22.9	600

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Tulare County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	52.1	47.3 - 57.0	3,300	26.7	22.4 - 31.0	1,700	21.2	17.2 - 25.1	1,300
Health Status before Pregnancy												
In good to excellent health	87.0	83.9 - 90.1	6,000	83.8	78.9 - 88.6	2,800	89.0	83.2 - 94.7	1,500	91.3 *	85.3 - 97.3	1,200
Chronic conditions												
Diabetes	3.0 *	1.2 - 4.9	200	4.2 *	1.3 - 7.1	100	--			--		
Hypertension	4.1 *	1.2 - 7.1	300	7.5 *	1.5 - 13.5	200	2.3 *	0.2 - 4.4	<100	--		
Asthma	9.7	6.8 - 12.6	700	11.8	7.1 - 16.4	400	7.6 *	2.6 - 12.7	100	10.2 *	4.0 - 16.5	100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	23.5	17.8 - 29.1	800	23.0	14.7 - 31.3	400	49.1	38.7 - 59.5	700
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	31.1	24.3 - 37.9	1,000	30.3	21.0 - 39.6	500	21.1	12.5 - 29.6	300
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	39.7	33.0 - 46.3	1,300	31.5	23.0 - 40.1	500	23.5	14.9 - 32.0	300
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	29.0	22.6 - 35.3	800	25.3	16.4 - 34.2	400	24.8	15.7 - 33.8	300
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	42.9	36.2 - 49.6	1,200	44.0	34.5 - 53.5	700	40.3	30.0 - 50.6	500
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	21.3	16.3 - 26.4	700	11.2	5.9 - 16.6	200	10.5 *	3.3 - 17.6	100
Nutrition Program Participation												
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	86.6	82.1 - 91.1	2,900	76.8	69.0 - 84.7	1,300	10.6	4.5 - 16.7	100
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	69.7	63.7 - 75.8	2,300	33.3	24.6 - 42.1	500	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	11.6	6.2 - 16.9	400	10.3 *	3.5 - 17.1	200	--		
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	24.9	18.3 - 31.5	800	19.8	12.0 - 27.7	300	9.2 *	3.7 - 14.7	100
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	16.4	11.8 - 21.1	500	19.0	10.5 - 27.4	300	12.9	6.0 - 19.7	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	5.2	2.5 - 7.9	200	--			--		
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	10.4	4.5 - 16.3	300	--			--		
Woman or partner lost job	16.7	12.7 - 20.7	1,100	20.6	14.1 - 27.1	700	18.2	10.0 - 26.3	300	6.6 *	1.3 - 11.9	<100
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	10.5	4.5 - 16.5	300	7.5 *	2.5 - 12.6	100	--		
Became separated or divorced	8.4	6.0 - 10.8	600	11.0	7.2 - 14.7	400	9.9	4.4 - 15.3	200	--		
Had no practical or emotional support	6.8	4.6 - 9.0	500	9.4	5.8 - 13.1	300	6.1 *	1.6 - 10.5	100	--		
Substance Use												
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	10.6	6.7 - 14.5	300	8.0 *	2.3 - 13.6	100	4.2 *	0.7 - 7.8	<100
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	4.3	1.8 - 6.8	100	--			--		
Any smoking, postpartum	3.4	1.9 - 4.9	200	4.4	1.9 - 6.9	100	--			--		
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	12.4	8.3 - 16.5	400	14.3	8.0 - 20.6	200	18.1	9.6 - 26.5	200
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	2.4 *	0.6 - 4.3	<100	--			5.4 *	1.4 - 9.5	<100
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	6.4	3.0 - 9.9	200	--			--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	34.4	27.6 - 41.2	1,100	31.6	23.1 - 40.0	500	13.6	6.4 - 20.8	200
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	20.4	14.8 - 26.0	700	20.1	12.2 - 28.0	300	7.7 *	2.4 - 13.0	100
Postpartum birth control use	86.9	83.8 - 89.9	5,900	87.0	82.7 - 91.2	2,800	89.6	84.3 - 94.9	1,500	87.2	79.7 - 94.6	1,200
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	77.3	70.5 - 84.2	2,500	85.2	78.6 - 91.8	1,400	91.4	86.4 - 96.3	1,200
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	43.2	36.2 - 50.1	1,400	35.0	26.1 - 43.9	600	26.3	16.8 - 35.7	400
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	83.4	78.5 - 88.4	2,700	93.1 *	88.5 - 97.7	1,600	93.7 *	88.4 - 99.1	1,300
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	40.5	33.9 - 47.0	1,300	57.0	47.8 - 66.2	1,000	68.9	59.1 - 78.7	900
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	67.9	61.7 - 74.2	2,200	80.0	72.8 - 87.1	1,400	77.8	68.8 - 86.8	1,000
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	35.9	29.5 - 42.4	1,200	50.8	41.3 - 60.3	800	40.7	30.3 - 51.1	500
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	46.2	38.4 - 54.0	1,200	59.0	48.6 - 69.3	800	60.8	48.7 - 72.8	500
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	17.9	12.3 - 23.5	500	25.7	16.4 - 35.1	300	34.2	22.7 - 45.6	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	80.2	75.1	85.3	2,700	81.5	74.6	88.5	1,400	87.0	79.6	94.5	1,200
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	86.2	81.5	90.9	2,800	91.2 *	84.3	98.0	1,500	--			
Received dental care during pregnancy	41.2	36.6	45.9	2,900	35.9	29.1	42.7	1,200	41.2	32.0	50.4	700	55.7	45.1	66.2	700
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	49.9	43.1	56.7	1,600	45.9	36.6	55.3	800	52.4	42.0	62.9	700
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	58.9	51.8	66.0	1,900	58.9	49.7	68.1	1,000	46.5	36.1	57.0	600
Had a postpartum medical visit	87.5	84.4	90.6	6,100	84.5	79.7	89.3	2,800	88.4	82.2	94.7	1,500	--			
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	61.6	57.2	66.1	4,300	83.1	78.5	87.7	2,700	60.5	51.5	69.5	1,000	--			
Uninsured	9.3	6.9	11.8	600	10.8	7.0	14.6	400	11.0	5.6	16.4	200	--			
Private	27.9	23.8	32.0	1,900	4.5	2.0	6.9	100	28.5	20.2	36.7	500	92.1 *	86.6	97.6	1,200
Prenatal insurance																
Medi-Cal	75.6	71.6	79.5	5,200	95.7	93.3	98.2	3,200	83.9	77.2	90.6	1,400	11.0	4.8	17.3	100
Uninsured	--				--				--				--			
Private	22.8	18.9	26.6	1,600	2.5 *	0.5	4.4	<100	16.1	9.4	22.8	300	85.5	78.4	92.6	1,200
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	7.4	4.0	10.8	200	8.9	3.7	14.1	200	5.5 *	0.8	10.2	<100
Maternal postpartum insurance																
Medi-Cal	68.7	64.5	72.9	4,700	88.7	84.8	92.5	2,900	73.5	65.5	81.5	1,200	8.7 *	2.9	14.5	100
Uninsured	7.0	4.8	9.1	500	7.4	4.2	10.6	200	8.1 *	3.2	12.9	100	5.4 *	0.8	9.9	<100
Private	23.4	19.6	27.3	1,600	2.7 *	0.7	4.7	<100	18.4	11.4	25.4	300	84.5	77.0	92.0	1,100
Infant health insurance																
Medi-Cal	75.7	71.8	79.7	5,200	97.1 *	95.1	99.2	3,100	82.4	75.6	89.2	1,400	12.5	5.8	19.1	200
Uninsured	2.0 *	0.8	3.2	100	--				--				4.9 *	0.4	9.4	<100
Private	20.9	17.2	24.7	1,400	--				14.6	8.2	20.9	200	79.8	71.5	88.2	1,100
Maternal Demographics																
First live birth	30.1	25.9	34.3	2,100	22.7	17.2	28.2	800	33.0	24.3	41.6	600	37.9	27.9	47.9	500
Less than high school education (or GED)	20.3	16.2	24.4	1,400	32.0	25.1	38.9	1,000	10.2	4.3	16.1	200	--			
Unmarried	52.1	47.4	56.7	3,600	67.9	61.6	74.1	2,200	50.9	41.5	60.3	900	10.9	4.9	16.9	100
Race/Ethnicity																
White	19.6	16.0	23.3	1,400	8.6	5.2	12.1	300	17.3	9.6	25.0	300	50.2	39.8	60.7	700
Hispanic	75.0	71.0	79.0	5,200	84.9	80.2	89.6	2,800	81.0	73.1	88.8	1,400	41.9	31.5	52.4	600
Asian/Pacific Islander	2.9	1.2	4.7	200	2.8 *	0.1	5.5	<100	--				6.1 *	0.7	11.4	<100
Black	1.1 *	0.2	1.9	<100	1.1 *	0.1	2.2	<100	--				--			
Born outside the U.S.	30.3	25.9	34.8	2,100	39.3	32.4	46.2	1,300	27.6	18.9	36.4	500	14.1	6.8	21.3	200
Speaks non-English language at home	29.5	25.1	33.9	2,000	33.2	26.5	39.9	1,100	32.8	23.8	41.7	600	15.7	7.8	23.6	200
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	56.1	49.6	62.6	1,700	45.4	35.9	54.8	700	26.1	16.5	35.6	300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Tulare County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			7,000	6.3	4.1	- 8.4	400	21.5	17.7	- 25.2	1,400	25.9	21.8	- 30.0	1,700	46.4	41.8	- 51.0	3,100
Health Status before Pregnancy																				
In good to excellent health	87.0	83.9	- 90.1	6,000	--				89.2	83.0	- 95.4	1,300	87.8	81.7	- 93.9	1,500	83.5	78.3	- 88.6	2,600
Chronic conditions																				
Diabetes	3.0 *	1.2	- 4.9	200	--				--				--				3.3 *	0.6	- 6.0	<100
Hypertension	4.1 *	1.2	- 7.1	300	--				--				--				4.2 *	1.1	- 7.4	100
Asthma	9.7	6.8	- 12.6	700	--				14.3	7.0	- 21.7	200	9.7	4.4	- 15.0	200	9.1	4.7	- 13.6	300
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	28.0	23.8	- 32.1	1,900	30.8	14.5	- 47.0	100	32.4	23.5	- 41.4	500	28.9	20.4	- 37.4	500	26.4	20.1	- 32.7	800
Overweight before pregnancy†	28.9	24.4	- 33.4	2,000	27.5	12.0	- 43.1	100	30.0	20.7	- 39.2	400	22.1	14.3	- 30.0	400	30.6	24.2	- 37.0	900
Obese before pregnancy†	33.3	29.0	- 37.6	2,300	22.3 *	8.7	- 35.8	<100	32.6	23.3	- 41.9	500	35.1	26.3	- 44.0	600	34.5	28.0	- 41.0	1,000
Inadequate weight gain during pregnancy†	26.3	22.1	- 30.6	1,600	22.4 *	5.4	- 39.3	<100	24.1	15.5	- 32.6	300	22.9	14.6	- 31.1	300	31.5	24.7	- 38.3	800
Excessive weight gain during pregnancy†	42.8	38.2	- 47.4	2,600	47.5	29.5	- 65.5	200	53.5	43.5	- 63.5	700	37.4	28.1	- 46.7	600	39.4	32.6	- 46.2	1,000
Food insecurity during pregnancy	16.7	13.4	- 19.9	1,100	17.6 *	4.5	- 30.7	<100	22.6	14.1	- 31.2	300	11.4	5.5	- 17.3	200	16.6	12.0	- 21.2	500
Nutrition Program Participation																				
Participated in WIC during pregnancy	68.8	64.4	- 73.1	4,700	52.3	34.8	- 69.8	200	51.8	41.8	- 61.8	700	62.9	53.6	- 72.1	1,000	79.8	74.2	- 85.4	2,400
Received CalFresh (food stamps) during pregnancy	45.1	40.4	- 49.7	3,100	25.7	11.1	- 40.3	100	29.2	20.6	- 37.9	400	44.8	35.6	- 54.0	800	52.6	45.8	- 59.4	1,600
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9	- 12.2	600	--				8.3 *	2.8	- 13.7	100	16.2	7.4	- 25.1	300	6.3 *	2.5	- 10.2	200
Prenatal depressive symptoms†	21.1	17.0	- 25.2	1,500	16.9 *	4.1	- 29.7	<100	19.4	11.7	- 27.1	300	23.3	15.4	- 31.1	400	18.9	13.4	- 24.3	600
Postpartum depressive symptoms†	17.3	13.7	- 20.8	1,200	--				22.4	13.2	- 31.6	300	14.1	7.9	- 20.3	200	17.8	12.4	- 23.2	500
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	3.2	1.7	- 4.6	200	--				3.1 *	0.1	- 6.0	<100	--				3.3 *	1.1	- 5.6	100
Moved due to problems paying rent or mortgage	6.1	3.0	- 9.1	400	--				3.4 *	0.2	- 6.7	<100	--				5.5	2.8	- 8.2	200
Woman or partner lost job	16.7	12.7	- 20.7	1,100	16.9 *	3.2	- 30.5	<100	15.5	7.4	- 23.6	200	13.2	6.9	- 19.4	200	16.7	11.5	- 21.9	500
Woman or partner had pay or hours cut back	8.5	5.2	- 11.9	600	--				10.0 *	3.3	- 16.8	100	4.3 *	0.8	- 7.7	<100	6.3	3.2	- 9.4	200
Became separated or divorced	8.4	6.0	- 10.8	600	--				7.1 *	2.5	- 11.7	<100	10.3	4.6	- 16.0	200	8.0	4.6	- 11.4	200
Had no practical or emotional support	6.8	4.6	- 9.0	500	--				4.8 *	1.1	- 8.6	<100	6.7 *	2.0	- 11.4	100	7.8	4.3	- 11.4	200
Substance Use																				
Any smoking, 3 months before pregnancy	8.0	5.5	- 10.5	600	--				10.1 *	4.0	- 16.3	100	6.7 *	2.4	- 11.0	100	8.2	4.3	- 12.0	200
Any smoking, 3rd trimester	2.8	1.2	- 4.5	200	--				--				--				3.9 *	0.8	- 7.0	100
Any smoking, postpartum	3.4	1.9	- 4.9	200	--				--				3.3 *	0.3	- 6.3	<100	2.9 *	0.9	- 5.0	<100
Any binge drinking, 3 months before pregnancy	13.9	10.8	- 17.0	1,000	10.2 *	1.3	- 19.2	<100	17.8	10.4	- 25.2	200	13.5	6.7	- 20.3	200	13.1	8.7	- 17.6	400
Any alcohol use, 3rd trimester	2.7	1.4	- 4.0	200	--				3.3 *	0.4	- 6.2	<100	4.5 *	0.9	- 8.1	<100	--			
Any cannabis use during pregnancy	3.9	2.1	- 5.7	300	--				--				6.6 *	1.5	- 11.6	100	3.2 *	0.7	- 5.7	<100
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	29.6	25.2	- 34.0	2,000	26.0 *	9.4	- 42.6	100	25.1	16.9	- 33.3	400	29.9	21.4	- 38.4	500	29.8	23.7	- 35.9	900
Unsure of pregnancy intentions	18.0	14.3	- 21.7	1,200	--				19.9	11.5	- 28.3	300	17.5	10.0	- 25.1	300	20.0	14.4	- 25.5	600
Postpartum birth control use	86.9	83.8	- 89.9	5,900	--				86.2	79.8	- 92.6	1,200	83.6	76.1	- 91.1	1,400	88.4	84.3	- 92.5	2,700
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	82.9	78.9	- 86.9	5,700	84.7 *	72.8	- 96.5	400	86.5	79.8	- 93.2	1,200	83.6	76.5	- 90.6	1,400	84.0	78.9	- 89.2	2,600
Infant always or often shared bed	37.6	33.0	- 42.2	2,600	42.1	24.8	- 59.4	200	29.7	20.7	- 38.7	400	36.7	27.6	- 45.9	600	37.9	31.4	- 44.5	1,200
Intended to breastfeed, before birth	88.3	85.4	- 91.3	6,100	--				88.4	82.2	- 94.6	1,200	91.0 *	85.4	- 96.6	1,500	86.7	82.0	- 91.4	2,600
Intended to breastfeed exclusively, before birth	51.1	46.4	- 55.8	3,500	68.5	51.9	- 85.1	300	53.3	43.3	- 63.2	700	57.5	48.4	- 66.7	1,000	45.3	38.5	- 52.2	1,400
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	73.6	69.6	- 77.6	5,000	72.2	57.2	- 87.3	300	75.6	66.9	- 84.4	1,100	78.1	70.4	- 85.7	1,300	69.8	63.6	- 76.1	2,100
Exclusive breastfeeding, 1 month after delivery	41.3	36.6	- 45.9	2,800	58.5	41.5	- 75.6	200	44.5	34.5	- 54.6	600	45.5	36.2	- 54.9	800	37.4	30.6	- 44.2	1,100
Any breastfeeding, 3 months after delivery	51.8	46.5	- 57.1	2,800	55.1	35.9	- 74.3	200	57.8	46.4	- 69.1	600	53.6	43.2	- 64.1	700	48.0	40.3	- 55.6	1,200
Exclusive breastfeeding, 3 months after delivery	22.8	18.5	- 27.2	1,200	38.0	19.2	- 56.8	100	28.1	17.5	- 38.6	300	30.3	20.7	- 39.8	400	16.6	11.0	- 22.2	400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	79.6 *	65.7	93.5	300	81.0	73.3	88.6	1,200	77.5	69.3	85.8	1,300	83.0	78.2	87.8	2,600
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	--				93.4 *	88.2	98.5	1,300	86.8	80.7	92.9	1,500	88.1	83.0	93.2	2,600
Received dental care during pregnancy	41.2	36.6	45.9	2,900	37.6	19.8	55.3	200	39.5	30.0	49.0	600	34.0	25.6	42.4	600	46.3	39.5	53.1	1,400
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	60.1	43.1	77.1	300	48.2	38.3	58.0	700	51.5	42.2	60.8	900	47.3	40.5	54.1	1,500
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	45.8	27.9	63.6	200	60.6	51.0	70.2	900	55.1	45.8	64.3	900	57.6	50.8	64.5	1,700
Had a postpartum medical visit	87.5	84.4	90.6	6,100	--				87.9	81.6	94.2	1,300	88.7	83.2	94.1	1,500	85.5	80.2	90.8	2,600
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	61.6	57.2	66.1	4,300	50.9	33.3	68.4	200	50.7	40.8	60.6	700	56.6	47.5	65.7	1,000	69.8	63.6	76.1	2,100
Uninsured	9.3	6.9	11.8	600	--				6.6 *	2.0	11.1	<100	9.3	4.6	13.9	200	12.2	7.9	16.6	400
Private	27.9	23.8	32.0	1,900	46.9	29.4	64.4	200	42.7	33.0	52.5	600	32.4	23.8	41.1	600	16.2	11.1	21.4	500
Prenatal insurance																				
Medi-Cal	75.6	71.6	79.5	5,200	61.7	44.5	78.8	300	64.2	54.8	73.5	900	66.4	57.6	75.2	1,100	87.3	82.6	92.0	2,700
Uninsured	--				--				--				--				--			
Private	22.8	18.9	26.6	1,600	36.1	19.1	53.1	200	34.8	25.5	44.1	500	30.3	21.7	38.9	500	11.5	7.0	16.1	400
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	--				6.1 *	1.5	10.6	<100	5.9 *	1.6	10.2	100	8.7	4.9	12.5	300
Maternal postpartum insurance																				
Medi-Cal	68.7	64.5	72.9	4,700	56.9	39.6	74.3	200	60.9	51.4	70.5	900	59.6	50.5	68.6	1,000	77.9	72.2	83.6	2,400
Uninsured	7.0	4.8	9.1	500	--				3.4 *	0.5	6.4	<100	7.8	3.4	12.3	100	9.1	5.3	12.9	300
Private	23.4	19.6	27.3	1,600	39.7	22.6	56.9	200	35.6	26.3	45.0	500	30.9	22.3	39.6	500	12.2	7.6	16.7	400
Infant health insurance																				
Medi-Cal	75.7	71.8	79.7	5,200	65.8	48.7	83.0	300	63.7	54.3	73.1	900	66.9	58.0	75.7	1,100	86.1	81.3	91.0	2,600
Uninsured	2.0 *	0.8	3.2	100	--				--				--				2.0 *	0.0	4.0	<100
Private	20.9	17.2	24.7	1,400	34.2	17.0	51.3	100	32.8	23.7	41.9	500	28.5	20.0	37.1	500	10.8	6.3	15.3	300
Maternal Demographics																				
Age																				
15-19	7.8	5.2	10.4	500	--				6.2 *	1.2	11.2	<100	--				11.2	6.5	15.9	300
20-34	78.2	74.2	82.1	5,400	85.4 *	72.5	98.4	400	81.9	74.3	89.4	1,200	81.6	74.9	88.4	1,400	72.6	65.9	79.2	2,200
35+	14.1	10.7	17.4	1,000	--				11.9	5.8	18.0	200	14.9	8.8	21.1	300	16.2	10.5	22.0	500
First live birth	30.1	25.9	34.3	2,100	24.1 *	8.8	39.4	100	35.3	25.9	44.7	500	28.6	20.3	36.9	500	29.5	23.3	35.7	900
Less than high school education (or GED)	20.3	16.2	24.4	1,400	--				12.4	5.9	18.9	200	16.2	10.3	22.1	300	26.0	19.8	32.1	800
Unmarried	52.1	47.4	56.7	3,600	44.0	26.4	61.5	200	45.9	36.1	55.7	600	47.6	38.4	56.8	800	54.5	47.7	61.3	1,700
Race/Ethnicity																				
White	19.6	16.0	23.3	1,400	31.2	15.5	46.9	100	34.4	24.7	44.0	500	26.3	18.0	34.6	400	8.8	5.0	12.5	300
Hispanic	75.0	71.0	79.0	5,200	55.5	37.9	73.0	200	59.3	49.4	69.1	800	69.2	60.4	78.0	1,200	86.4	81.8	91.0	2,600
Asian/Pacific Islander	2.9	1.2	4.7	200	--				3.6 *	0.2	7.0	<100	--				2.2 *	0.1	4.4	<100
Black	1.1 *	0.2	1.9	<100	--				--				--				--			
Born outside the U.S.	30.3	25.9	34.8	2,100	16.9 *	3.9	29.9	<100	20.9	13.1	28.8	300	24.4	16.8	32.0	400	38.4	31.7	45.2	1,200
Speaks non-English language at home	29.5	25.1	33.9	2,000	--				19.6	12.0	27.2	300	26.2	18.5	34.0	400	37.6	31.0	44.3	1,200
Income as a percent of the Federal Poverty Guideline																				
0-100%	52.1	47.3	57.0	3,300	48.7	30.6	66.8	200	33.8	24.5	43.1	400	47.4	37.7	57.1	700	61.5	54.5	68.5	1,700
101-200%	26.7	22.4	31.0	1,700	20.9 *	7.7	34.0	<100	28.9	18.9	38.9	400	28.3	19.6	36.9	400	26.2	20.0	32.5	700
> 200%	21.2	17.2	25.1	1,300	30.4	13.3	47.6	100	37.3	27.4	47.2	500	24.4	15.9	32.8	400	12.2	7.3	17.2	300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Tulare County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	75.6	71.6 - 79.5	5,200	22.8	18.9 - 26.6	1,600
Health Status before Pregnancy									
In good to excellent health	87.0	83.9 - 90.1	6,000	85.9	82.2 - 89.5	4,500	91.0 *	85.1 - 96.9	1,400
Chronic conditions									
Diabetes	3.0 *	1.2 - 4.9	200	3.7 *	1.3 - 6.2	200	--		
Hypertension	4.1 *	1.2 - 7.1	300	5.3 *	1.4 - 9.1	300	--		
Asthma	9.7	6.8 - 12.6	700	9.2	5.9 - 12.4	500	11.5	5.2 - 17.7	200
Nutrition and Weight									
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	22.5	18.0 - 27.0	1,200	44.2	34.7 - 53.7	700
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	31.4	26.0 - 36.8	1,600	21.9	14.1 - 29.6	300
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	34.6	29.5 - 39.6	1,800	25.9	17.5 - 34.3	400
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	27.7	22.6 - 32.7	1,200	21.4	13.4 - 29.4	300
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	42.4	37.1 - 47.8	1,900	42.3	32.7 - 51.9	600
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	18.8	15.0 - 22.7	1,000	10.2 *	3.7 - 16.6	200
Nutrition Program Participation									
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	85.3	81.5 - 89.0	4,400	13.9	7.4 - 20.4	200
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	58.6	53.3 - 63.8	3,000	4.0 *	0.4 - 7.6	<100
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	10.0	6.0 - 14.0	500	5.5 *	1.2 - 9.7	<100
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	23.2	18.2 - 28.2	1,200	14.3	7.9 - 20.7	200
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	18.2	14.0 - 22.5	900	14.7	8.1 - 21.4	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	4.0	2.1 - 5.8	200	--		
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	7.4	3.5 - 11.3	400	--		
Woman or partner lost job	16.7	12.7 - 20.7	1,100	20.3	15.3 - 25.3	1,000	5.8 *	1.4 - 10.3	<100
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	9.6	5.3 - 13.8	500	4.2 *	0.4 - 7.9	<100
Became separated or divorced	8.4	6.0 - 10.8	600	10.0	7.0 - 13.0	500	3.8 *	0.3 - 7.4	<100
Had no practical or emotional support	6.8	4.6 - 9.0	500	8.4	5.5 - 11.2	400	--		
Substance Use									
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	8.8	5.8 - 11.9	500	5.2 *	1.5 - 8.8	<100
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	3.5 *	1.4 - 5.6	200	--		
Any smoking, postpartum	3.4	1.9 - 4.9	200	3.5	1.8 - 5.3	200	--		
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	12.4	9.1 - 15.7	600	18.1	10.4 - 25.8	300
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	1.6 *	0.6 - 2.6	<100	4.3 *	1.1 - 7.4	<100
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	4.6	2.3 - 6.9	200	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	34.4	29.1 - 39.7	1,800	15.0	8.1 - 22.0	200
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	20.9	16.4 - 25.4	1,100	7.0 *	2.3 - 11.8	100
Postpartum birth control use	86.9	83.8 - 89.9	5,900	86.6	83.2 - 90.1	4,500	86.7	79.8 - 93.6	1,300
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	81.0	76.1 - 85.9	4,200	88.2	82.5 - 93.9	1,400
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	41.5	36.1 - 47.0	2,100	21.5	13.4 - 29.6	300
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	86.7	83.1 - 90.3	4,500	94.0 *	89.5 - 98.5	1,500
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	44.5	39.2 - 49.9	2,300	72.1	63.3 - 80.9	1,100
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	71.9	67.1 - 76.6	3,700	77.6	69.3 - 85.8	1,200
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	39.8	34.4 - 45.1	2,000	45.5	35.9 - 55.2	700
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	49.6	43.6 - 55.7	2,100	59.8	48.8 - 70.9	600
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	19.1	14.5 - 23.7	800	39.1	28.0 - 50.1	400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	79.5	75.4	83.7	4,200	85.5	78.3	92.8	1,300
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	87.3	83.4	91.1	4,400	95.1 *	90.7	99.5	1,500
Received dental care during pregnancy	41.2	36.6	45.9	2,900	37.0	31.7	42.3	1,900	56.3	46.5	66.0	900
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	48.9	43.5	54.3	2,500	47.9	38.3	57.6	800
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	60.2	54.8	65.7	3,100	42.6	33.0	52.1	700
Had a postpartum medical visit	87.5	84.4	90.6	6,100	84.9	81.0	88.7	4,400	95.0 *	90.5	99.6	1,500
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	61.6	57.2	66.1	4,300	81.2	77.3	85.0	4,200	--			
Uninsured	9.3	6.9	11.8	600	11.3	8.1	14.4	600	--			
Private	27.9	23.8	32.0	1,900	7.1	4.6	9.6	400	--			
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	7.4	4.7	10.1	400	--			
Maternal postpartum insurance												
Medi-Cal	68.7	64.5	72.9	4,700	89.2	86.2	92.2	4,600	5.0 *	0.9	9.0	<100
Uninsured	7.0	4.8	9.1	500	7.9	5.3	10.5	400	--			
Private	23.4	19.6	27.3	1,600	2.8	1.3	4.4	100	92.9 *	88.0	97.9	1,500
Infant health insurance												
Medi-Cal	75.7	71.8	79.7	5,200	96.3	94.6	97.9	5,000	10.5	5.0	16.1	200
Uninsured	2.0 *	0.8	3.2	100	1.5 *	0.4	2.6	<100	--			
Private	20.9	17.2	24.7	1,400	1.7 *	0.6	2.8	<100	85.4	78.8	92.0	1,300
Maternal Demographics												
Age												
15-19	7.8	5.2	10.4	500	10.4	7.0	13.8	500	--			
20-34	78.2	74.2	82.1	5,400	76.1	71.3	80.9	4,000	83.9	77.2	90.5	1,300
35+	14.1	10.7	17.4	1,000	13.6	9.7	17.5	700	16.1	9.5	22.8	300
First live birth	30.1	25.9	34.3	2,100	27.7	23.0	32.5	1,500	36.4	27.4	45.4	600
Less than high school education (or GED)	20.3	16.2	24.4	1,400	26.5	21.3	31.6	1,400	--			
Unmarried	52.1	47.4	56.7	3,600	62.8	57.7	68.0	3,300	16.6	9.8	23.4	300
Race/Ethnicity												
White	19.6	16.0	23.3	1,400	11.4	8.0	14.8	600	49.1	39.4	58.8	800
Hispanic	75.0	71.0	79.0	5,200	83.9	79.9	87.9	4,400	44.3	34.6	54.0	700
Asian/Pacific Islander	2.9	1.2	4.7	200	2.1 *	0.4	3.9	100	5.0 *	0.5	9.6	<100
Black	1.1 *	0.2	1.9	<100	0.7 *	0.0	1.4	<100	--			
Born outside the U.S.	30.3	25.9	34.8	2,100	35.6	30.3	41.0	1,900	10.8	4.7	16.9	200
Speaks non-English language at home	29.5	25.1	33.9	2,000	34.7	29.4	40.0	1,800	12.1	5.5	18.8	200
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	53.8	48.5	59.1	2,700	23.4	14.8	32.0	400
Income as a percent of the Federal Poverty Guideline												
0-100%	52.1	47.3	57.0	3,300	66.7	61.4	72.0	3,200	5.4 *	1.2	9.6	<100
101-200%	26.7	22.4	31.0	1,700	30.1	24.9	35.4	1,400	18.1	10.7	25.6	300
> 200%	21.2	17.2	25.1	1,300	3.1 *	1.3	5.0	100	76.5	68.3	84.7	1,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Tulare County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	75.0	71.0 - 79.0	5,200	1.1 *	0.2 - 1.9	<100	19.6	16.0 - 23.3	1,400	2.9	1.2 - 4.7	200
Health Status before Pregnancy															
In good to excellent health	87.0	83.9 - 90.1	6,000	85.4	81.6 - 89.2	4,400	--			93.1 *	88.3 - 97.9	1,300	--		
Chronic conditions															
Diabetes	3.0 *	1.2 - 4.9	200	3.2 *	1.3 - 5.2	200	--			--			--		
Hypertension	4.1 *	1.2 - 7.1	300	4.8 *	0.9 - 8.7	200	--			--			--		
Asthma	9.7	6.8 - 12.6	700	8.1	4.9 - 11.3	400	--			15.7	8.2 - 23.1	200	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	24.5	19.8 - 29.1	1,300	--			36.0	26.3 - 45.8	500	50.3 *	20.5 - 80.2	100
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	30.9	25.5 - 36.2	1,600	--			26.4	16.5 - 36.3	400	--		
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	34.7	29.6 - 39.8	1,800	--			30.9	21.7 - 40.2	400	--		
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	27.9	22.9 - 32.9	1,200	--			15.9	8.9 - 23.0	200	48.9 *	16.7 - 81.1	<100
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	40.7	35.3 - 46.0	1,800	53.9 *	11.9 - 96.0	<100	53.1	42.7 - 63.6	700	31.9 *	4.6 - 59.1	<100
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	16.2	12.5 - 19.9	800	--			20.3	12.1 - 28.6	300	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	79.8	75.4 - 84.1	4,100	--			28.9	19.4 - 38.5	400	53.6 *	24.2 - 83.1	100
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	50.6	45.2 - 56.0	2,600	--			25.1	16.3 - 33.9	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	9.6	5.6 - 13.5	500	--			5.9 *	1.1 - 10.7	<100	--		
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	22.7	17.7 - 27.8	1,200	--			16.2	8.8 - 23.7	200	--		
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	16.8	12.8 - 20.8	900	--			18.6	9.7 - 27.5	300	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	3.7	1.9 - 5.5	200	--			--			--		
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	6.4 *	2.6 - 10.3	300	--			5.5 *	1.3 - 9.8	<100	--		
Woman or partner lost job	16.7	12.7 - 20.7	1,100	17.3	12.5 - 22.1	900	--			12.6 *	4.7 - 20.5	200	--		
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	8.9	4.7 - 13.1	400	--			4.8 *	0.5 - 9.0	<100	--		
Became separated or divorced	8.4	6.0 - 10.8	600	8.5	5.7 - 11.3	400	--			7.8 *	2.6 - 12.9	100	--		
Had no practical or emotional support	6.8	4.6 - 9.0	500	8.5	5.6 - 11.4	400	--			--			--		
Often experienced racism over her lifetime	9.6	7.1 - 12.2	700	10.4	7.3 - 13.4	500	--			3.8 *	0.1 - 7.4	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	5.0	2.6 - 7.4	300	--			18.7	10.8 - 26.6	300	--		
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	--			--			7.4 *	2.2 - 12.7	100	--		
Any smoking, postpartum	3.4	1.9 - 4.9	200	1.7 *	0.5 - 2.9	<100	--			9.0 *	3.7 - 14.2	100	--		
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	11.9	8.6 - 15.1	600	--			20.8	12.3 - 29.4	300	--		
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	2.2 *	0.8 - 3.6	100	--			3.1 *	0.3 - 5.9	<100	--		
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	4.5	2.2 - 6.8	200	--			--			--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	33.3	28.0 - 38.6	1,700	--			14.7	7.5 - 21.9	200	35.2 *	7.6 - 62.8	<100
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	19.0	14.7 - 23.3	1,000	--			12.6	5.4 - 19.8	200	--		
Postpartum birth control use	86.9	83.8 - 89.9	5,900	88.5	85.2 - 91.8	4,500	--			82.1	74.0 - 90.2	1,100	--		
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	82.3	77.5 - 87.1	4,200	--			86.4	79.9 - 92.9	1,100	--		
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	40.8	35.4 - 46.3	2,100	--			24.3	15.3 - 33.3	300	38.1 *	8.8 - 67.5	<100
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	87.4	83.9 - 91.0	4,500	--			91.0 *	85.2 - 96.7	1,200	--		
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	45.9	40.5 - 51.2	2,300	--			73.4	64.4 - 82.3	1,000	--		
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	72.2	67.4 - 77.0	3,700	--			78.7	70.6 - 86.9	1,000	--		
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	37.5	32.3 - 42.8	1,900	--			56.4	46.2 - 66.6	700	37.6 *	9.6 - 65.6	<100
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	48.4	42.2 - 54.5	2,000	--			67.2	56.5 - 77.8	700	--		
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	17.6	13.2 - 21.9	700	--			43.6	31.8 - 55.4	400	--		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	80.8	77.3 - 84.4	5,600	82.2	78.2 - 86.1	4,300	--			75.4	66.1 - 84.8	1,000	--		
Initiated prenatal care in 1st trimester	89.4	86.3 - 92.4	6,000	87.6	83.8 - 91.5	4,400	--			94.7 *	90.1 - 99.2	1,300	--		
Received dental care during pregnancy	41.2	36.6 - 45.9	2,900	40.7	35.3 - 46.1	2,100	--			41.2	31.5 - 51.0	600	50.3 *	20.5 - 80.0	100
Received a Tdap vaccine during pregnancy	48.7	44.1 - 53.4	3,400	48.6	43.2 - 54.0	2,500	--			50.1	39.7 - 60.4	700	48.4 *	18.7 - 78.0	<100
Received a flu shot during pregnancy	56.6	51.9 - 61.4	3,900	60.1	54.6 - 65.6	3,100	--			44.5	34.1 - 54.8	600	--		
Had a postpartum medical visit	87.5	84.4 - 90.6	6,100	86.6	82.8 - 90.3	4,500	--			92.4 *	86.9 - 98.0	1,300	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	61.6	57.2 - 66.1	4,300	68.3	63.4 - 73.2	3,500	--			34.6	24.6 - 44.7	500	54.9 *	25.5 - 84.4	100
Uninsured	9.3	6.9 - 11.8	600	11.5	8.3 - 14.6	600	--			--			--		
Private	27.9	23.8 - 32.0	1,900	18.6	14.5 - 22.8	1,000	--			63.2	53.0 - 73.3	900	38.5 *	9.9 - 67.2	<100
Prenatal insurance															
Medi-Cal	75.6	71.6 - 79.5	5,200	84.7	80.8 - 88.6	4,400	--			43.8	33.5 - 54.0	600	54.9 *	25.5 - 84.4	100
Uninsured	--			--			--			--			--		
Private	22.8	18.9 - 26.6	1,600	13.4	9.7 - 17.1	700	--			56.2	46.0 - 66.5	800	38.5 *	9.9 - 67.2	<100
Had any gaps in insurance during pregnancy	6.9	4.7 - 9.2	500	8.0	5.1 - 10.8	400	--			4.2 *	0.7 - 7.6	<100	--		
Maternal postpartum insurance															
Medi-Cal	68.7	64.5 - 72.9	4,700	76.8	72.3 - 81.3	3,900	--			40.5	30.3 - 50.7	500	50.6 *	20.9 - 80.4	100
Uninsured	7.0	4.8 - 9.1	500	8.3	5.6 - 11.0	400	--			--			--		
Private	23.4	19.6 - 27.3	1,600	13.7	10.0 - 17.5	700	--			57.3	47.0 - 67.6	800	42.9 *	13.8 - 71.9	<100
Infant health insurance															
Medi-Cal	75.7	71.8 - 79.7	5,200	85.7	81.9 - 89.5	4,400	--			40.6	30.3 - 50.8	500	54.9 *	25.5 - 84.4	100
Uninsured	2.0 *	0.8 - 3.2	100	2.0 *	0.6 - 3.4	100	--			--			--		
Private	20.9	17.2 - 24.7	1,400	11.1	7.6 - 14.5	600	--			55.5	45.1 - 65.8	700	38.5 *	9.9 - 67.2	<100
Maternal Demographics															
Age															
15-19	7.8	5.2 - 10.4	500	9.4	6.1 - 12.6	500	--			--			--		
20-34	78.2	74.2 - 82.1	5,400	76.4	71.6 - 81.2	4,000	--			80.9	73.1 - 88.8	1,100	--		
35+	14.1	10.7 - 17.4	1,000	14.2	10.2 - 18.2	700	--			15.9	9.0 - 22.8	200	--		
First live birth	30.1	25.9 - 34.3	2,100	27.7	22.9 - 32.4	1,400	--			36.5	26.6 - 46.3	500	37.4 *	10.6 - 64.3	<100
Less than high school education (or GED)	20.3	16.2 - 24.4	1,400	25.3	20.2 - 30.4	1,300	--			5.8 *	1.2 - 10.5	<100	--		
Unmarried	52.1	47.4 - 56.7	3,600	59.1	53.8 - 64.4	3,000	--			27.4	18.7 - 36.2	400	46.2 *	16.9 - 75.5	<100
Born outside the U.S.	30.3	25.9 - 34.8	2,100	36.6	31.2 - 42.0	1,900	--			4.7 *	0.6 - 8.7	<100	58.2 *	29.6 - 86.8	100
Speaks non-English language at home	29.5	25.1 - 33.9	2,000	36.4	31.1 - 41.8	1,900	--			7.1 *	1.2 - 13.0	<100	--		
Lives in a high poverty neighborhood†	46.4	41.8 - 51.0	3,100	54.1	48.8 - 59.4	2,600	--			20.2	12.0 - 28.3	300	33.7 *	6.5 - 61.0	<100
Income as a percent of the Federal Poverty Guideline															
0-100%	52.1	47.3 - 57.0	3,300	59.3	53.7 - 64.9	2,800	--			22.8	14.3 - 31.2	300	45.7 *	15.6 - 75.9	<100
101-200%	26.7	22.4 - 31.0	1,700	28.7	23.6 - 33.8	1,400	--			23.1	13.4 - 32.9	300	--		
> 200%	21.2	17.2 - 25.1	1,300	12.0	8.2 - 15.7	600	--			54.1	43.5 - 64.7	700	40.2 *	11.2 - 69.2	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Tulare County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		7,000	30.1	25.9 - 34.3	2,100	69.9	65.7 - 74.1	4,900
Health Status before Pregnancy									
In good to excellent health	87.0	83.9 - 90.1	6,000	86.9	81.4 - 92.5	1,800	87.0	83.2 - 90.7	4,200
Chronic conditions									
Diabetes	3.0 *	1.2 - 4.9	200	--			4.2 *	1.5 - 6.8	200
Hypertension	4.1 *	1.2 - 7.1	300	3.5 *	0.5 - 6.4	<100	4.4 *	0.4 - 8.4	200
Asthma	9.7	6.8 - 12.6	700	10.8	5.1 - 16.6	200	9.2	5.9 - 12.5	400
Nutrition and Weight									
Daily folic acid use, month before pregnancy	28.0	23.8 - 32.1	1,900	33.7	26.0 - 41.3	700	25.6	20.6 - 30.5	1,200
Overweight before pregnancy†	28.9	24.4 - 33.4	2,000	29.0	21.5 - 36.6	600	28.8	23.2 - 34.3	1,400
Obese before pregnancy†	33.3	29.0 - 37.6	2,300	24.0	16.9 - 31.2	500	37.3	31.9 - 42.6	1,800
Inadequate weight gain during pregnancy†	26.3	22.1 - 30.6	1,600	22.8	15.5 - 30.1	400	27.9	22.7 - 33.1	1,200
Excessive weight gain during pregnancy†	42.8	38.2 - 47.4	2,600	49.2	40.6 - 57.8	900	39.9	34.5 - 45.4	1,700
Food insecurity during pregnancy	16.7	13.4 - 19.9	1,100	14.4	8.9 - 19.9	300	17.6	13.6 - 21.6	800
Nutrition Program Participation									
Participated in WIC during pregnancy	68.8	64.4 - 73.1	4,700	64.5	56.6 - 72.4	1,300	70.6	65.5 - 75.7	3,400
Received CalFresh (food stamps) during pregnancy	45.1	40.4 - 49.7	3,100	27.7	20.2 - 35.2	600	52.4	46.8 - 58.0	2,500
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	9.0	5.9 - 12.2	600	10.5	4.7 - 16.3	200	8.4	4.6 - 12.2	400
Prenatal depressive symptoms†	21.1	17.0 - 25.2	1,500	21.7	15.0 - 28.4	500	20.8	15.7 - 26.0	1,000
Postpartum depressive symptoms†	17.3	13.7 - 20.8	1,200	18.8	12.1 - 25.5	400	16.6	12.4 - 20.8	800
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	3.2	1.7 - 4.6	200	3.3 *	0.5 - 6.1	<100	3.1	1.5 - 4.8	100
Moved due to problems paying rent or mortgage	6.1	3.0 - 9.1	400	6.0 *	2.2 - 9.7	100	6.1 *	2.1 - 10.1	300
Woman or partner lost job	16.7	12.7 - 20.7	1,100	16.8	10.8 - 22.7	300	16.7	11.6 - 21.8	800
Woman or partner had pay or hours cut back	8.5	5.2 - 11.9	600	10.1	4.8 - 15.3	200	7.8	3.6 - 12.1	400
Became separated or divorced	8.4	6.0 - 10.8	600	6.0 *	2.3 - 9.6	100	9.5	6.4 - 12.5	500
Had no practical or emotional support	6.8	4.6 - 9.0	500	3.9 *	0.7 - 7.0	<100	8.0	5.2 - 10.9	400
Substance Use									
Any smoking, 3 months before pregnancy	8.0	5.5 - 10.5	600	9.3	4.6 - 14.0	200	7.4	4.5 - 10.3	400
Any smoking, 3rd trimester	2.8	1.2 - 4.5	200	--			3.2 *	1.1 - 5.4	200
Any smoking, postpartum	3.4	1.9 - 4.9	200	2.8 *	0.3 - 5.4	<100	3.6	1.8 - 5.4	200
Any binge drinking, 3 months before pregnancy	13.9	10.8 - 17.0	1,000	17.2	11.1 - 23.3	400	12.4	8.9 - 16.0	600
Any alcohol use, 3rd trimester	2.7	1.4 - 4.0	200	4.0 *	1.0 - 7.0	<100	2.1 *	0.9 - 3.4	100
Any cannabis use during pregnancy	3.9	2.1 - 5.7	300	3.5 *	0.5 - 6.6	<100	4.1	1.8 - 6.3	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	29.6	25.2 - 34.0	2,000	26.7	19.4 - 34.1	600	30.8	25.4 - 36.2	1,500
Unsure of pregnancy intentions	18.0	14.3 - 21.7	1,200	17.8	11.3 - 24.3	400	18.1	13.6 - 22.5	900
Postpartum birth control use	86.9	83.8 - 89.9	5,900	84.9	79.0 - 90.7	1,700	87.8	84.2 - 91.3	4,200
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	78.9 - 86.9	5,700	82.2	75.6 - 88.8	1,700	83.2	78.3 - 88.2	4,000
Infant always or often shared bed	37.6	33.0 - 42.2	2,600	46.7	38.5 - 55.0	1,000	33.6	28.1 - 39.2	1,600
Intended to breastfeed, before birth	88.3	85.4 - 91.3	6,100	96.3 *	93.4 - 99.3	2,000	84.8	80.9 - 88.8	4,100
Intended to breastfeed exclusively, before birth	51.1	46.4 - 55.8	3,500	62.0	53.9 - 70.1	1,300	46.4	40.7 - 52.0	2,200
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	73.6	69.6 - 77.6	5,000	78.6	71.9 - 85.3	1,600	71.5	66.5 - 76.4	3,400
Exclusive breastfeeding, 1 month after delivery	41.3	36.6 - 45.9	2,800	44.0	35.7 - 52.3	900	40.1	34.5 - 45.7	1,900
Any breastfeeding, 3 months after delivery	51.8	46.5 - 57.1	2,800	54.2	44.5 - 63.8	800	50.9	44.6 - 57.2	2,000
Exclusive breastfeeding, 3 months after delivery	22.8	18.5 - 27.2	1,200	21.0	13.4 - 28.6	300	23.5	18.3 - 28.8	900

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Tulare County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Tulare County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	80.8	77.3	84.4	5,600	80.0	73.4	86.6	1,700	81.2	76.9	85.4	4,000
Initiated prenatal care in 1st trimester	89.4	86.3	92.4	6,000	92.4	88.0	96.9	1,900	88.1	84.2	92.0	4,200
Received dental care during pregnancy	41.2	36.6	45.9	2,900	38.6	30.7	46.4	800	42.4	36.7	48.1	2,000
Received a Tdap vaccine during pregnancy	48.7	44.1	53.4	3,400	56.9	48.7	65.1	1,200	45.2	39.6	50.8	2,200
Received a flu shot during pregnancy	56.6	51.9	61.4	3,900	63.4	55.6	71.2	1,300	53.7	47.9	59.4	2,500
Had a postpartum medical visit	87.5	84.4	90.6	6,100	88.8	83.3	94.2	1,800	86.9	83.2	90.7	4,200
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	61.6	57.2	66.1	4,300	53.5	45.3	61.7	1,100	65.1	59.9	70.4	3,100
Uninsured	9.3	6.9	11.8	600	10.5	5.6	15.5	200	8.8	6.0	11.6	400
Private	27.9	23.8	32.0	1,900	35.0	27.3	42.8	700	24.8	20.0	29.6	1,200
Prenatal insurance												
Medi-Cal	75.6	71.6	79.5	5,200	70.5	63.2	77.9	1,500	77.7	73.1	82.4	3,800
Uninsured	--				--				--			
Private	22.8	18.9	26.6	1,600	27.9	20.7	35.1	600	20.6	16.0	25.1	1,000
Had any gaps in insurance during pregnancy	6.9	4.7	9.2	500	8.9	4.1	13.7	200	6.1	3.6	8.6	300
Maternal postpartum insurance												
Medi-Cal	68.7	64.5	72.9	4,700	66.5	58.9	74.2	1,400	69.6	64.6	74.7	3,400
Uninsured	7.0	4.8	9.1	500	4.0 *	1.0	7.1	<100	8.2	5.4	11.0	400
Private	23.4	19.6	27.3	1,600	28.5	21.3	35.8	600	21.3	16.7	25.9	1,000
Infant health insurance												
Medi-Cal	75.7	71.8	79.7	5,200	69.9	62.4	77.3	1,400	78.2	73.6	82.8	3,700
Uninsured	2.0 *	0.8	3.2	100	--				2.1 *	0.5	3.6	<100
Private	20.9	17.2	24.7	1,400	25.4	18.4	32.4	500	19.0	14.6	23.5	900
Maternal Demographics												
Age												
15-19	7.8	5.2	10.4	500	21.7	14.6	28.9	500	1.8 *	0.3	3.3	<100
20-34	78.2	74.2	82.1	5,400	73.5	66.1	81.0	1,500	80.1	75.5	84.8	3,900
35+	14.1	10.7	17.4	1,000	4.7 *	1.7	7.8	<100	18.1	13.6	22.5	900
Less than high school education (or GED)	20.3	16.2	24.4	1,400	16.0	9.5	22.5	300	22.1	17.0	27.2	1,100
Unmarried	52.1	47.4	56.7	3,600	59.0	50.9	67.1	1,200	49.1	43.4	54.8	2,400
Race/Ethnicity												
White	19.6	16.0	23.3	1,400	23.6	16.7	30.6	500	17.9	13.6	22.2	900
Hispanic	75.0	71.0	79.0	5,200	68.4	60.8	76.0	1,400	77.8	73.2	82.5	3,700
Asian/Pacific Islander	2.9	1.2	4.7	200	3.6 *	0.8	6.5	<100	2.6 *	0.5	4.8	100
Black	1.1 *	0.2	1.9	<100	--				0.8 *	0.0	1.5	<100
Born outside the U.S.	30.3	25.9	34.8	2,100	25.5	18.2	32.7	500	32.4	26.9	37.9	1,600
Speaks non-English language at home	29.5	25.1	33.9	2,000	24.3	17.2	31.4	500	31.7	26.3	37.2	1,500
Lives in a high poverty neighborhood†	46.4	41.8	51.0	3,100	45.3	37.0	53.7	900	46.8	41.3	52.4	2,200
Income as a percent of the Federal Poverty Guideline												
0-100%	52.1	47.3	57.0	3,300	41.3	32.7	49.9	800	56.5	50.7	62.3	2,600
101-200%	26.7	22.4	31.0	1,700	30.7	22.7	38.7	600	25.1	20.0	30.2	1,100
> 200%	21.2	17.2	25.1	1,300	28.0	20.2	35.8	500	18.4	13.9	23.0	800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Tulare County, n=381).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Tulare County was 569. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		9,200	3.9	1.8 - 6.1	400	73.7	69.5 - 77.9	6,800	22.3	18.5 - 26.2	2,000
Health Status before Pregnancy												
In good to excellent health	88.6	85.5 - 91.6	8,100	--			88.4	84.9 - 91.8	6,000	87.9 *	80.7 - 95.0	1,800
Chronic conditions												
Diabetes	3.1	1.3 - 4.8	300	--			1.8 *	0.7 - 2.9	100	7.7 *	1.1 - 14.3	200
Hypertension	2.7	1.2 - 4.2	200	--			1.8 *	0.6 - 3.1	100	6.1 *	0.7 - 11.5	100
Asthma	7.5	5.1 - 9.8	700	--			7.0	4.4 - 9.7	500	8.4 *	3.3 - 13.6	200
Nutrition and Weight												
Daily folic acid use, month before pregnancy	34.0	29.4 - 38.7	3,100	--			29.5	24.4 - 34.6	2,000	48.6	38.9 - 58.4	1,000
Overweight before pregnancy†	28.4	24.1 - 32.7	2,600	--			27.9	23.0 - 32.8	1,900	28.1	19.5 - 36.7	600
Obese before pregnancy†	24.9	21.1 - 28.8	2,300	--			25.1	20.6 - 29.7	1,700	26.1	17.9 - 34.2	500
Inadequate weight gain during pregnancy†	19.7	15.9 - 23.5	1,700	--			18.7	14.6 - 22.9	1,200	26.0	16.4 - 35.5	500
Excessive weight gain during pregnancy†	41.9	37.1 - 46.7	3,600	59.3 *	29.4 - 89.1	200	42.8	37.2 - 48.4	2,700	35.5	26.6 - 44.4	600
Food insecurity during pregnancy	15.9	12.6 - 19.2	1,400	--			16.7	12.8 - 20.6	1,100	11.8	6.1 - 17.5	200
Nutrition Program Participation												
Participated in WIC during pregnancy	39.7	35.1 - 44.3	3,600	--			40.0	34.7 - 45.4	2,700	29.6	20.9 - 38.3	600
Received CalFresh (food stamps) during pregnancy	19.7	16.1 - 23.3	1,800	--			20.9	16.5 - 25.3	1,400	17.3	10.7 - 23.9	400
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8 - 9.1	600	--			5.5	2.8 - 8.2	400	5.8 *	0.8 - 10.9	100
Prenatal depressive symptoms†	15.4	11.9 - 19.0	1,400	--			16.2	11.9 - 20.4	1,100	13.2	7.0 - 19.3	300
Postpartum depressive symptoms†	13.7	10.5 - 16.8	1,200	--			15.3	11.5 - 19.1	1,000	8.9 *	3.6 - 14.1	200
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	2.1 *	0.8 - 3.4	200	--			1.5 *	0.3 - 2.7	<100	4.4 *	0.3 - 8.5	<100
Moved due to problems paying rent or mortgage	5.9	3.5 - 8.3	500	--			6.7	3.8 - 9.7	500	4.3 *	0.3 - 8.2	<100
Woman or partner lost job	14.6	11.1 - 18.0	1,300	--			15.5	11.4 - 19.6	1,000	11.8	4.9 - 18.7	200
Woman or partner had pay or hours cut back	11.4	8.5 - 14.3	1,000	--			12.3	8.7 - 15.9	800	8.3 *	3.4 - 13.2	200
Became separated or divorced	6.1	3.7 - 8.6	600	--			6.8	3.6 - 9.9	400	3.6 *	0.1 - 7.1	<100
Had no practical or emotional support	4.3	2.1 - 6.5	400	--			4.2 *	1.5 - 6.9	300	5.5 *	1.4 - 9.7	100
Substance Use												
Any smoking, 3 months before pregnancy	6.1	4.0 - 8.2	600	--			6.6	4.0 - 9.1	400	5.3 *	1.2 - 9.4	100
Any smoking, 3rd trimester	1.7 *	0.6 - 2.8	200	--			1.5 *	0.3 - 2.8	100	--		
Any smoking, postpartum	1.9 *	0.7 - 3.2	200	--			1.8 *	0.3 - 3.3	100	--		
Any binge drinking, 3 months before pregnancy	14.2	11.1 - 17.3	1,300	--			16.0	12.2 - 19.9	1,100	10.1	4.9 - 15.3	200
Any alcohol use, 3rd trimester	7.8	5.5 - 10.2	700	--			7.6	4.9 - 10.4	500	9.6	4.4 - 14.9	200
Any cannabis use during pregnancy	3.5	1.6 - 5.5	300	--			3.9 *	1.4 - 6.3	300	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	26.8	22.5 - 31.1	2,400	24.0 *	4.7 - 43.2	<100	28.8	23.6 - 34.0	1,900	20.9	13.6 - 28.2	400
Unsure of pregnancy intentions	13.0	9.7 - 16.2	1,200	--			13.9	10.2 - 17.6	900	6.4 *	1.9 - 10.9	100
Postpartum birth control use	81.7	78.0 - 85.5	7,300	--			83.6	79.4 - 87.8	5,500	74.8	66.1 - 83.5	1,500
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	82.9	79.3 - 86.6	7,500	52.7 *	23.8 - 81.7	200	84.7	80.8 - 88.5	5,600	82.6	75.4 - 89.8	1,700
Infant always or often shared bed	36.4	31.8 - 41.0	3,300	31.4 *	6.9 - 55.8	100	34.9	29.6 - 40.2	2,300	42.3	32.7 - 51.9	900
Intended to breastfeed, before birth	93.4	90.9 - 96.0	8,400	--			93.1	89.9 - 96.4	6,200	95.0 *	91.4 - 98.6	1,900
Intended to breastfeed exclusively, before birth	64.6	60.1 - 69.2	5,800	33.2 *	8.0 - 58.3	100	64.8	59.6 - 70.0	4,300	69.7	60.6 - 78.7	1,400
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	90.2	87.7 - 92.7	8,000	--			90.7	87.7 - 93.6	6,000	90.0	85.3 - 94.7	1,800
Exclusive breastfeeding, 1 month after delivery	51.8	46.9 - 56.6	4,400	69.5 *	45.8 - 93.2	200	52.6	46.9 - 58.3	3,300	46.5	36.6 - 56.5	900
Any breastfeeding, 3 months after delivery	75.6	70.6 - 80.7	4,800	32.5 *	6.9 - 58.2	<100	75.9	70.0 - 81.9	3,600	81.0	71.9 - 90.1	1,200
Exclusive breastfeeding, 3 months after delivery	38.2	32.8 - 43.5	2,400	--			40.0	33.8 - 46.3	1,800	35.1	24.0 - 46.1	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	--				70.0	64.8	75.3	4,700	87.2	81.0	93.4	1,800
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	--				92.0	89.1	94.9	6,100	93.6 *	89.4	97.9	1,900
Received dental care during pregnancy	42.7	38.1	47.4	3,800	49.2	22.6	75.9	100	41.1	35.7	46.4	2,700	47.2	37.6	56.9	1,000
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	64.6 *	40.5	88.8	200	63.1	57.7	68.5	4,200	64.1	55.0	73.1	1,300
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	--				67.0	61.6	72.3	4,500	64.2	55.3	73.2	1,300
Had a postpartum medical visit	91.5	88.7	94.3	8,300	--				91.0	87.5	94.4	6,100	93.1 *	88.9	97.3	1,800
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	29.0	24.8	33.2	2,700	69.6 *	47.3	91.9	300	30.1	25.2	35.0	2,000	18.4	11.7	25.1	400
Uninsured	15.0	11.8	18.2	1,400	--				15.8	11.9	19.7	1,100	12.9	7.2	18.6	300
Private	50.6	45.9	55.3	4,600	--				48.3	42.8	53.8	3,300	65.9	57.2	74.5	1,300
Prenatal insurance																
Medi-Cal	48.3	43.6	53.0	4,400	--				51.8	46.3	57.3	3,400	30.2	22.0	38.5	600
Uninsured	1.2 *	0.3	2.0	100	--				1.2 *	0.2	2.2	<100	--			
Private	45.3	40.6	50.1	4,100	--				41.7	36.3	47.1	2,800	64.7	56.0	73.5	1,300
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	--				8.7	5.8	11.6	600	7.6 *	2.9	12.4	200
Maternal postpartum insurance																
Medi-Cal	36.6	32.1	41.1	3,300	74.8 *	54.5	95.1	300	38.8	33.5	44.0	2,600	22.3	14.8	29.8	400
Uninsured	11.0	8.3	13.8	1,000	--				12.1	8.7	15.6	800	7.8	3.5	12.1	200
Private	47.8	43.0	52.6	4,300	--				44.3	38.7	49.9	3,000	67.5	59.0	76.1	1,400
Infant health insurance																
Medi-Cal	48.9	44.1	53.6	4,400	82.0 *	64.5	99.5	300	51.2	45.7	56.7	3,400	35.3	26.5	44.1	700
Uninsured	1.6 *	0.5	2.8	100	--				1.9 *	0.4	3.3	100	--			
Private	45.0	40.2	49.8	4,100	--				42.3	36.7	47.9	2,800	62.0	53.0	70.9	1,300
Maternal Demographics																
First live birth	36.6	32.1	41.2	3,400	65.8 *	36.0	95.7	200	39.4	34.0	44.8	2,700	22.3	14.2	30.4	500
Less than high school education (or GED)	14.5	11.4	17.7	1,300	--				14.2	10.5	17.8	1,000	16.6	10	23.1	300
Unmarried	40.1	35.4	44.8	3,700	75.6 *	52.3	98.9	300	41.5	36.0	46.9	2,800	29.3	20.3	38.4	600
Race/Ethnicity																
White	34.0	29.5	38.4	3,000	--				32.0	26.8	37.1	2,100	45.7	36.1	55.4	900
Hispanic	57.7	53.0	62.4	5,100	--				60.2	54.7	65.7	4,000	43.3	33.8	52.8	800
Asian/Pacific Islander	6.9	3.8	9.9	600	--				6.7	3.2	10.3	400	8.6 *	2.0	15.2	200
Black	1.3 *	0.4	2.1	100	--				0.8 *	0.2	1.4	<100	--			
Born outside the U.S.	34.7	30.3	39.1	3,200	20.3 *	2.5	38.0	<100	34.6	29.3	39.8	2,300	37.6	28.6	46.7	800
Speaks non-English language at home	31.9	27.7	36.2	2,900	35.2 *	9.9	60.5	100	31.7	26.8	36.7	2,100	32.0	23.2	40.7	700
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	--				4.5 *	1.7	7.4	300	3.9 *	0.9	6.8	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				<High School				High School Graduate or GED				Some College				College Graduate			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			9,200	14.5	11.4	17.7	1,300	18.2	14.6	21.9	1,700	32.0	27.5	36.5	2,900	35.3	30.8	39.8	3,200
Health Status before Pregnancy																				
In good to excellent health	88.6	85.5	91.6	8,100	79.6	70.4	88.9	1,000	83.0	75.0	90.9	1,400	85.7	79.2	92.1	2,500	97.6 *	95.6	99.7	3,100
Chronic conditions																				
Diabetes	3.1	1.3	4.8	300	4.1 *	0.5	7.6	<100	--				5.5 *	0.8	10.3	200	--			
Hypertension	2.7	1.2	4.2	200	--				--				2.9 *	0.2	5.6	<100	--			
Asthma	7.5	5.1	9.8	700	--				6.2 *	1.2	11.2	100	9.2	4.5	14.0	300	7.5	3.6	11.4	200
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	34.0	29.4	38.7	3,100	26.0	15.8	36.3	300	25.5	14.9	36.1	400	23.9	16.6	31.2	700	51.1	43.2	59.0	1,600
Overweight before pregnancy†	28.4	24.1	32.7	2,600	25.7	16.4	35.0	300	33.1	22.4	43.8	500	28.0	20.3	35.7	800	27.4	19.9	34.8	900
Obese before pregnancy†	24.9	21.1	28.8	2,300	36.7	26.2	47.2	500	29.7	19.7	39.6	500	27.4	20.1	34.8	800	15.5	10.2	20.8	500
Inadequate weight gain during pregnancy†	19.7	15.9	23.5	1,700	28.7	18.0	39.5	400	13.4	6.2	20.6	200	16.9	10.5	23.3	400	22.0	15.0	29.0	700
Excessive weight gain during pregnancy†	41.9	37.1	46.7	3,600	35.9	24.0	47.9	400	41.8	30.8	52.8	700	43.7	35.2	52.2	1,200	42.9	34.7	51.1	1,300
Food insecurity during pregnancy	15.9	12.6	19.2	1,400	28.6	18.7	38.4	400	27.0	17.2	36.8	400	18.4	12.0	24.9	500	2.7 *	0.6	4.8	<100
Nutrition Program Participation																				
Participated in WIC during pregnancy	39.7	35.1	44.3	3,600	88.6 *	80.9	96.3	1,200	65.2	54.3	76.0	1,000	35.5	27.4	43.5	1,000	10.2	5.3	15.0	300
Received CalFresh (food stamps) during pregnancy	19.7	16.1	23.3	1,800	52.1	40.4	63.7	700	25.3	16.0	34.5	400	19.8	13.1	26.6	600	3.3 *	0.9	5.8	100
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8	9.1	600	18.2	8.2	28.1	200	9.7 *	0.8	18.6	100	6.7 *	2.0	11.4	200	--			
Prenatal depressive symptoms†	15.4	11.9	19.0	1,400	19.2	10.3	28.1	200	14.8	7.4	22.1	200	19.3	11.9	26.8	600	10.8	5.7	15.9	300
Postpartum depressive symptoms†	13.7	10.5	16.8	1,200	11.4 *	3.8	19.0	100	10.8	4.7	16.9	200	18.6	12.3	24.8	500	11.7	6.4	17.1	400
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	2.1 *	0.8	3.4	200	--				5.0 *	0.4	9.6	<100	--				--			
Moved due to problems paying rent or mortgage	5.9	3.5	8.3	500	9.9 *	0.2	19.7	100	4.9 *	0.6	9.1	<100	7.7 *	3.1	12.3	200	3.3 *	0.6	6.0	100
Woman or partner lost job	14.6	11.1	18.0	1,300	24.8	13.3	36.3	300	16.7	9.3	24.1	300	16.4	9.8	23.0	500	7.8	3.2	12.4	200
Woman or partner had pay or hours cut back	11.4	8.5	14.3	1,000	6.7 *	1.8	11.6	<100	15.2	8.0	22.5	300	15.3	9.0	21.6	400	7.8	3.7	11.9	200
Became separated or divorced	6.1	3.7	8.6	600	5.7 *	1.1	10.3	<100	7.9 *	2.5	13.2	100	11.7	5.2	18.2	300	--			
Had no practical or emotional support	4.3	2.1	6.5	400	14.5	7.4	21.6	200	--				6.6 *	0.7	12.5	200	--			
Substance Use																				
Any smoking, 3 months before pregnancy	6.1	4.0	8.2	600	--				10.4 *	3.6	17.1	200	8.3	3.8	12.8	200	3.6 *	1.4	5.7	100
Any smoking, 3rd trimester	1.7 *	0.6	2.8	200	--				4.9 *	0.6	9.2	<100	--				--			
Any smoking, postpartum	1.9 *	0.7	3.2	200	--				6.3 *	0.8	11.7	<100	--				1.3 *	0.2	2.5	<100
Any binge drinking, 3 months before pregnancy	14.2	11.1	17.3	1,300	9.1 *	3.5	14.6	100	14.8	7.1	22.6	200	19.6	12.9	26.2	600	11.1	6.8	15.5	400
Any alcohol use, 3rd trimester	7.8	5.5	10.2	700	--				--				6.3 *	2.3	10.2	200	11.7	7.1	16.3	400
Any cannabis use during pregnancy	3.5	1.6	5.5	300	--				--				6.5 *	1.4	11.6	200	1.7 *	0.1	3.3	<100
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	26.8	22.5	31.1	2,400	28.9	19.1	38.6	400	27.2	17.9	36.6	400	35.5	26.9	44.1	1,000	17.9	11.1	24.7	600
Unsure of pregnancy intentions	13.0	9.7	16.2	1,200	10.8 *	4.2	17.4	100	25.3	14.8	35.9	400	14.3	8.4	20.2	400	6.4	3.0	9.9	200
Postpartum birth control use	81.7	78.0	85.5	7,300	81.2	72.2	90.2	1,000	84.7	76.7	92.6	1,400	82.3	74.8	89.7	2,400	79.8	73.8	85.8	2,500
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	82.9	79.3	86.6	7,500	74.8	65.0	84.5	1,000	76.7	66.1	87.3	1,200	84.5	78.1	90.9	2,500	88.0	83.1	92.8	2,800
Infant always or often shared bed	36.4	31.8	41.0	3,300	54.3	42.9	65.8	700	36.1	25.5	46.6	600	32.5	24.5	40.4	900	32.8	24.9	40.6	1,000
Intended to breastfeed, before birth	93.4	90.9	96.0	8,400	90.5 *	84.2	96.8	1,200	94.2 *	88.6	99.8	1,500	91.0 *	84.8	97.1	2,600	96.5 *	94.1	98.9	3,000
Intended to breastfeed exclusively, before birth	64.6	60.1	69.2	5,800	45.9	34.3	57.6	600	58.8	47.6	70.0	1,000	66.1	57.7	74.5	1,900	74.3	67.5	81.2	2,300
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	90.2	87.7	92.7	8,000	85.7	78.2	93.1	1,100	91.7 *	86.2	97.2	1,400	88.2	83.2	93.1	2,500	93.2	89.7	96.8	2,900
Exclusive breastfeeding, 1 month after delivery	51.8	46.9	56.6	4,400	46.0	33.4	58.6	500	56.7	45.6	67.8	800	44.6	35.7	53.5	1,200	58.0	50.2	65.9	1,800
Any breastfeeding, 3 months after delivery	75.6	70.6	80.7	4,800	70.2	58.1	82.4	800	70.2	58.6	81.9	800	70.5	60.0	81.1	1,400	86.7	80.7	92.7	1,800
Exclusive breastfeeding, 3 months after delivery	38.2	32.8	43.5	2,400	24.5	13.8	35.2	300	33.7	21.5	45.9	400	36.4	26.2	46.7	700	49.3	40.1	58.5	1,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				<High School				High School Graduate or GED				Some College				College Graduate			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	75.6	65.8	85.4	1,000	72.9	62.8	83.0	1,200	71.2	62.8	79.6	2,100	76.8	69.9	83.6	2,500
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	85.8	78.4	93.3	1,100	89.9 *	83.5	96.2	1,500	92.7 *	88.3	97.1	2,600	95.9 *	92.7	99.0	3,100
Received dental care during pregnancy	42.7	38.1	47.4	3,800	39.1	27.9	50.4	500	48.3	37.5	59.1	800	36.7	28.5	44.9	1,100	46.9	39.0	54.8	1,500
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	56.0	44.2	67.8	700	59.2	48.6	69.9	1,000	59.2	50.6	67.9	1,700	72.3	65.5	79.1	2,300
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	78.1	66.9	89.2	1,000	74.1	64.6	83.6	1,200	61.5	52.9	70.1	1,800	64.0	56.6	71.5	2,000
Had a postpartum medical visit	91.5	88.7	94.3	8,300	83.9	75.6	92.2	1,100	86.0	78.2	93.7	1,400	93.6 *	88.9	98.3	2,700	95.4 *	91.4	99.3	3,100
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	29.0	24.8	33.2	2,700	55.2	43.6	66.7	700	49.0	37.9	60.0	800	28.3	20.9	35.6	800	8.6	4.7	12.4	300
Uninsured	15.0	11.8	18.2	1,400	36.2	25.2	47.2	500	28.5	18.7	38.3	500	10.7	5.8	15.6	300	3.5 *	0.7	6.3	100
Private	50.6	45.9	55.3	4,600	8.6 *	2.2	15.1	100	17.9	9.5	26.2	300	53.2	44.7	61.8	1,600	82.3	75.7	88.9	2,700
Prenatal insurance																				
Medi-Cal	48.3	43.6	53.0	4,400	--				79.1	70.6	87.6	1,300	47.1	38.7	55.5	1,300	14.5	9.4	19.5	500
Uninsured	1.2 *	0.3	2.0	100	--				--				--				--			
Private	45.3	40.6	50.1	4,100	--				15.1	7.6	22.7	300	44.5	35.9	53.1	1,300	78.5	71.7	85.4	2,500
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	9.6 *	3.4	15.8	100	17.8	9.5	26.1	300	9.7	4.9	14.4	300	3.8 *	1.1	6.6	100
Maternal postpartum insurance																				
Medi-Cal	36.6	32.1	41.1	3,300	62.7	51.5	73.9	800	63.0	52.5	73.5	1,000	38.4	30.3	46.5	1,100	11.2	6.7	15.7	400
Uninsured	11.0	8.3	13.8	1,000	31.6	21.0	42.1	400	17.6	9.4	25.8	300	7.1	2.9	11.2	200	2.6 *	0.4	4.9	<100
Private	47.8	43.0	52.6	4,300	--				14.9	7.3	22.5	200	47.7	39.0	56.4	1,400	81.6	76.0	87.1	2,600
Infant health insurance																				
Medi-Cal	48.9	44.1	53.6	4,400	--				84.2	76.4	92.0	1,400	44.9	36.4	53.3	1,300	15.2	10.0	20.4	500
Uninsured	1.6 *	0.5	2.8	100	--				--				--				--			
Private	45.0	40.2	49.8	4,100	--				9.9 *	3.3	16.6	200	47.2	38.4	55.9	1,400	78.9	73.0	84.9	2,500
Maternal Demographics																				
First live birth	36.6	32.1	41.2	3,400	14.8 *	5.8	23.8	200	34.2	24.0	44.5	600	40.9	32.5	49.3	1,200	43.3	35.4	51.2	1,400
Unmarried	40.1	35.4	44.8	3,700	56.2	44.9	67.5	700	62.7	52.1	73.2	1,000	49.0	40.3	57.6	1,400	13.8	8.0	19.7	400
Race/Ethnicity																				
White	34.0	29.5	38.4	3,000	--				15.4	7.6	23.1	300	37.2	28.7	45.8	1,100	52.4	44.3	60.5	1,600
Hispanic	57.7	53.0	62.4	5,100	--				82.8	74.9	90.7	1,400	57.3	48.7	66.0	1,700	29.5	22.5	36.6	900
Asian/Pacific Islander	6.9	3.8	9.9	600	--				--				3.6 *	0.6	6.7	100	16.3	8.7	24.0	500
Black	1.3 *	0.4	2.1	100	--				--				1.8 *	0.3	3.4	<100	--			
Born outside the U.S.	34.7	30.3	39.1	3,200	80.4	69.4	91.5	1,100	41.5	30.8	52.1	700	17.8	12.0	23.5	500	27.2	19.3	35.0	900
Speaks non-English language at home	31.9	27.7	36.2	2,900	69.6	57.9	81.3	900	47.3	36.3	58.3	800	20.4	14.2	26.7	600	18.7	12.2	25.1	600
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	9.5 *	3.6	15.4	100	7.6 *	1.7	13.5	100	--				--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	31.7	27.2	36.1	2,800	79.6	69.9	89.2	1,000	52.8	41.2	64.4	800	28.1	20.0	36.2	800	5.9 *	2.4	9.4	200
101-200%	23.6	19.4	27.7	2,100	17.5	8.7	26.2	200	33.8	22.3	45.4	500	32.4	24.3	40.5	900	13.0	7.7	18.3	400
> 200%	44.8	39.9	49.6	3,900	--				13.4 *	5.1	21.7	200	39.5	30.9	48.1	1,100	81.1	75.0	87.2	2,500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Ventura County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			Urban			Rural/Frontier		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		9,200	86.0	82.7 - 89.3	7,800	14.0	10.7 - 17.3	1,300
Health Status before Pregnancy									
In good to excellent health	88.6	85.5 - 91.6	8,100	88.5	85.3 - 91.8	6,900	88.3 *	79.7 - 97.0	1,100
Chronic conditions									
Diabetes	3.1	1.3 - 4.8	300	2.6 *	0.9 - 4.3	200	--		
Hypertension	2.7	1.2 - 4.2	200	2.7 *	1.0 - 4.4	200	--		
Asthma	7.5	5.1 - 9.8	700	7.4	4.9 - 9.9	600	7.8 *	1.0 - 14.6	<100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	34.0	29.4 - 38.7	3,100	34.7	29.7 - 39.8	2,700	30.5	18.9 - 42.2	400
Overweight before pregnancy†	28.4	24.1 - 32.7	2,600	26.7	22.1 - 31.3	2,100	38.6	26.2 - 51.0	500
Obese before pregnancy†	24.9	21.1 - 28.8	2,300	23.9	19.8 - 27.9	1,900	30.5	18.8 - 42.2	400
Inadequate weight gain during pregnancy†	19.7	15.9 - 23.5	1,700	19.7	15.6 - 23.8	1,400	20.5	10.1 - 30.9	200
Excessive weight gain during pregnancy†	41.9	37.1 - 46.7	3,600	42.0	36.8 - 47.1	3,000	39.9	27.1 - 52.6	500
Food insecurity during pregnancy	15.9	12.6 - 19.2	1,400	14.5	11.1 - 17.9	1,100	23.8	13.3 - 34.3	300
Nutrition Program Participation									
Participated in WIC during pregnancy	39.7	35.1 - 44.3	3,600	39.8	34.8 - 44.7	3,100	39.8	27.4 - 52.2	500
Received CalFresh (food stamps) during pregnancy	19.7	16.1 - 23.3	1,800	18.6	14.8 - 22.5	1,400	26.8	15.7 - 37.8	300
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8 - 9.1	600	6.2	3.4 - 9.0	500	--		
Prenatal depressive symptoms†	15.4	11.9 - 19.0	1,400	15.0	11.2 - 18.8	1,200	18.4	8.9 - 28.0	200
Postpartum depressive symptoms†	13.7	10.5 - 16.8	1,200	12.7	9.5 - 16.0	1,000	19.8	9.7 - 30.0	300
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.1 *	0.8 - 3.4	200	2.0 *	0.8 - 3.3	200	--		
Moved due to problems paying rent or mortgage	5.9	3.5 - 8.3	500	5.4	3.0 - 7.8	400	9.3 *	1.0 - 17.7	100
Woman or partner lost job	14.6	11.1 - 18.0	1,300	14.4	10.8 - 18.1	1,100	16.0 *	6.3 - 25.7	200
Woman or partner had pay or hours cut back	11.4	8.5 - 14.3	1,000	9.6	6.7 - 12.4	700	22.9	12.0 - 33.7	300
Became separated or divorced	6.1	3.7 - 8.6	600	5.3	2.7 - 8.0	400	11.4 *	3.8 - 19.1	100
Had no practical or emotional support	4.3	2.1 - 6.5	400	4.5	2.0 - 7.0	300	--		
Substance Use									
Any smoking, 3 months before pregnancy	6.1	4.0 - 8.2	600	5.7	3.5 - 7.8	400	8.9 *	1.9 - 15.8	100
Any smoking, 3rd trimester	1.7 *	0.6 - 2.8	200	1.6 *	0.4 - 2.8	100	--		
Any smoking, postpartum	1.9 *	0.7 - 3.2	200	1.9 *	0.5 - 3.2	100	--		
Any binge drinking, 3 months before pregnancy	14.2	11.1 - 17.3	1,300	13.3	10.1 - 16.5	1,000	19.9	9.7 - 30.2	200
Any alcohol use, 3rd trimester	7.8	5.5 - 10.2	700	7.0	4.6 - 9.4	500	13.2 *	4.8 - 21.6	200
Any cannabis use during pregnancy	3.5	1.6 - 5.5	300	3.0 *	1.0 - 4.9	200	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	26.8	22.5 - 31.1	2,400	27.2	22.5 - 31.9	2,100	24.0	13.6 - 34.3	300
Unsure of pregnancy intentions	13.0	9.7 - 16.2	1,200	13.1	9.6 - 16.6	1,000	12.6 *	4.1 - 21.1	200
Postpartum birth control use	81.7	78.0 - 85.5	7,300	81.2	77.1 - 85.4	6,200	84.2	76.2 - 92.2	1,100
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	79.3 - 86.6	7,500	83.6	79.7 - 87.5	6,500	79.4	69.4 - 89.5	1,000
Infant always or often shared bed	36.4	31.8 - 41.0	3,300	35.0	30.1 - 39.9	2,700	44.7	32.0 - 57.3	600
Intended to breastfeed, before birth	93.4	90.9 - 96.0	8,400	94.3	91.6 - 96.9	7,300	89.2 *	80.8 - 97.7	1,100
Intended to breastfeed exclusively, before birth	64.6	60.1 - 69.2	5,800	64.8	59.9 - 69.7	5,000	64.8	52.6 - 77.0	800
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.2	87.7 - 92.7	8,000	90.7	88.1 - 93.3	6,900	87.0 *	79.0 - 95.1	1,100
Exclusive breastfeeding, 1 month after delivery	51.8	46.9 - 56.6	4,400	53.0	47.7 - 58.2	3,800	42.9	30.1 - 55.7	500
Any breastfeeding, 3 months after delivery	75.6	70.6 - 80.7	4,800	74.7	69.1 - 80.3	4,000	81.5 *	70.5 - 92.5	800
Exclusive breastfeeding, 3 months after delivery	38.2	32.8 - 43.5	2,400	37.3	31.5 - 43.2	1,900	41.2	27.3 - 55.0	400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	73.3	68.6	78.0	5,700	78.7	68.1	89.3	1,000
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	92.0	89.4	94.7	7,100	95.4 *	91.0	99.8	1,200
Received dental care during pregnancy	42.7	38.1	47.4	3,800	44.2	39.2	49.3	3,400	34.1	22.4	45.9	400
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	61.7	56.7	66.7	4,800	74.0	63.0	85.1	900
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	67.4	62.5	72.3	5,200	65.4	53.7	77.1	800
Had a postpartum medical visit	91.5	88.7	94.3	8,300	91.5	88.5	94.6	7,100	91.0 *	84.3	97.8	1,100
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	29.0	24.8	33.2	2,700	28.5	23.9	33.0	2,200	32.2	20.7	43.8	400
Uninsured	15.0	11.8	18.2	1,400	14.1	10.8	17.4	1,100	21.1	11.0	31.3	300
Private	50.6	45.9	55.3	4,600	51.6	46.5	56.8	4,000	43.8	31.1	56.5	600
Prenatal insurance												
Medi-Cal	48.3	43.6	53.0	4,400	47.6	42.5	52.7	3,700	52.1	39.4	64.8	700
Uninsured	1.2 *	0.3	2.0	100	1.1 *	0.3	2.0	<100	--			
Private	45.3	40.6	50.1	4,100	45.6	40.5	50.7	3,500	44.3	31.6	57.0	600
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	9.0	6.3	11.8	700	9.4 *	2.6	16.1	100
Maternal postpartum insurance												
Medi-Cal	36.6	32.1	41.1	3,300	35.4	30.6	40.2	2,800	45.2	32.7	57.8	600
Uninsured	11.0	8.3	13.8	1,000	10.8	7.9	13.7	800	11.6 *	3.6	19.7	100
Private	47.8	43.0	52.6	4,300	48.8	43.6	53.9	3,800	41.1	28.3	53.8	500
Infant health insurance												
Medi-Cal	48.9	44.1	53.6	4,400	47.8	42.7	52.9	3,700	54.9	42.1	67.7	700
Uninsured	1.6 *	0.5	2.8	100	1.0 *	0.1	1.9	<100	--			
Private	45.0	40.2	49.8	4,100	46.0	40.8	51.1	3,600	39.6	26.8	52.4	500
Maternal Demographics												
Age												
15-19	3.9	1.8	6.1	400	4.6	2.1	7.1	400	--			
20-34	73.7	69.5	77.9	6,800	74.0	69.6	78.5	5,800	72.0	60.4	83.7	900
35+	22.3	18.5	26.2	2,000	21.4	17.3	25.4	1,700	28.0	16.3	39.6	400
First live birth	36.6	32.1	41.2	3,400	37.2	32.2	42.2	2,900	34.4	22.5	46.3	400
Less than high school education (or GED)	14.5	11.4	17.7	1,300	14.3	10.9	17.7	1,100	14.2	6.2	22.3	200
Unmarried	40.1	35.4	44.8	3,700	38.7	33.7	43.7	3,000	48.2	35.5	60.9	600
Race/Ethnicity												
White	34.0	29.5	38.4	3,000	33.3	28.5	38.1	2,500	38.8	26.2	51.3	500
Hispanic	57.7	53.0	62.4	5,100	57.4	52.3	62.5	4,400	58.3	45.7	71.0	700
Asian/Pacific Islander	6.9	3.8	9.9	600	7.7	4.2	11.1	600	--			
Black	1.3 *	0.4	2.1	100	1.4 *	0.4	2.3	100	--			
Born outside the U.S.	34.7	30.3	39.1	3,200	35.4	30.6	40.2	2,800	29.2	18.1	40.2	400
Speaks non-English language at home	31.9	27.7	36.2	2,900	33.1	28.5	37.8	2,600	22.7	12.9	32.4	300
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	4.8	2.3	7.4	400	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	31.7	27.2	36.1	2,800	30.4	25.6	35.1	2,300	38.2	25.7	50.6	500
101-200%	23.6	19.4	27.7	2,100	22.6	18.2	27.0	1,700	29.6	17.5	41.7	400
> 200%	44.8	39.9	49.6	3,900	47.0	41.7	52.3	3,500	32.2	19.9	44.6	400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			9,200	31.7	27.2	36.1	2,800	23.6	19.4	27.7	2,100	44.8	39.9	49.6	3,900
Health Status before Pregnancy																
In good to excellent health	88.6	85.5	91.6	8,100	83.8	77.8	89.8	2,300	84.4	77.3	91.5	1,700	94.8 *	90.9	98.6	3,700
Chronic conditions																
Diabetes	3.1	1.3	4.8	300	2.9 *	0.3	5.6	<100	3.5 *	0.2	6.9	<100	3.2 *	0.1	6.3	100
Hypertension	2.7	1.2	4.2	200	2.6 *	0.1	5.1	<100	4.1 *	0.9	7.3	<100	--			
Asthma	7.5	5.1	9.8	700	5.8 *	1.9	9.8	200	9.3 *	3.4	15.1	200	8.0	4.5	11.6	300
Nutrition and Weight																
Daily folic acid use, month before pregnancy	34.0	29.4	38.7	3,100	21.3	14.8	27.9	600	22.8	13.4	32.3	500	49.7	42.3	57.1	1,900
Overweight before pregnancy†	28.4	24.1	32.7	2,600	25.2	18.3	32.2	700	32.7	23.1	42.3	700	28.8	21.8	35.8	1,100
Obese before pregnancy†	24.9	21.1	28.8	2,300	32.3	24.9	39.6	900	26.8	18.6	35.0	600	19.0	13.3	24.7	700
Inadequate weight gain during pregnancy†	19.7	15.9	23.5	1,700	19.8	13.3	26.4	500	21.1	13.2	28.9	400	18.3	12.3	24.4	700
Excessive weight gain during pregnancy†	41.9	37.1	46.7	3,600	42.9	34.6	51.2	1,100	39.9	30.1	49.7	800	43.3	35.6	50.9	1,600
Food insecurity during pregnancy	15.9	12.6	19.2	1,400	32.5	24.8	40.2	900	20.0	12.3	27.7	400	2.3 *	0.1	4.4	<100
Nutrition Program Participation																
Participated in WIC during pregnancy	39.7	35.1	44.3	3,600	76.2	68.5	83.9	2,100	54.6	44.5	64.7	1,100	4.0 *	1.6	6.4	200
Received CalFresh (food stamps) during pregnancy	19.7	16.1	23.3	1,800	51.0	42.6	59.4	1,400	17.3	9.6	25.1	400	--			
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8	9.1	600	15.3	8.6	22.0	400	8.9 *	1.0	16.9	200	--			
Prenatal depressive symptoms†	15.4	11.9	19.0	1,400	21.8	14.2	29.4	600	17.6	10.3	24.9	400	10.2	5.5	14.9	400
Postpartum depressive symptoms†	13.7	10.5	16.8	1,200	14.3	8.8	19.9	400	20.1	12.4	27.7	400	10.4	5.8	14.9	400
Hardships and Support during Pregnancy																
Homeless or did not have a regular place to sleep	2.1 *	0.8	3.4	200	6.2 *	2.2	10.3	200	--				--			
Moved due to problems paying rent or mortgage	5.9	3.5	8.3	500	12.3	5.9	18.7	300	4.4 *	1.0	7.9	<100	2.6 *	0.3	4.9	<100
Woman or partner lost job	14.6	11.1	18.0	1,300	27.2	19.7	34.8	700	14.9	7.2	22.5	300	6.2 *	2.4	10.1	200
Woman or partner had pay or hours cut back	11.4	8.5	14.3	1,000	16.5	10.2	22.7	400	13.0	6.5	19.4	300	7.1	3.5	10.7	300
Became separated or divorced	6.1	3.7	8.6	600	12.8	6.0	19.6	300	5.7 *	1.8	9.5	100	--			
Had no practical or emotional support	4.3	2.1	6.5	400	11.0 *	4.5	17.5	300	2.7 *	0.3	5.1	<100	--			
Substance Use																
Any smoking, 3 months before pregnancy	6.1	4.0	8.2	600	8.6	4.1	13.2	200	5.5 *	1.0	10.1	100	4.2 *	1.7	6.8	200
Any smoking, 3rd trimester	1.7 *	0.6	2.8	200	3.5 *	0.8	6.2	<100	--				--			
Any smoking, postpartum	1.9 *	0.7	3.2	200	4.4 *	1.1	7.7	100	--				--			
Any binge drinking, 3 months before pregnancy	14.2	11.1	17.3	1,300	8.3	4.1	12.5	200	19.3	12.0	26.5	400	15.9	10.6	21.2	600
Any alcohol use, 3rd trimester	7.8	5.5	10.2	700	4.1 *	0.8	7.4	100	4.5 *	0.8	8.2	<100	12.6	8.1	17.2	500
Any cannabis use during pregnancy	3.5	1.6	5.5	300	5.7 *	1.8	9.6	200	--				2.1 *	0.1	4.1	<100
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	26.8	22.5	31.1	2,400	34.9	26.8	43.1	1,000	35.0	25.5	44.6	700	17.2	11.0	23.4	700
Unsure of pregnancy intentions	13.0	9.7	16.2	1,200	19.4	12.9	25.9	500	15.4	7.0	23.7	300	5.7	2.6	8.9	200
Postpartum birth control use	81.7	78.0	85.5	7,300	79.9	72.5	87.3	2,100	85.3	78.5	92.0	1,700	81.3	75.6	87.0	3,100
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	82.9	79.3	86.6	7,500	81.2	74.7	87.7	2,200	72.3	62.5	82.2	1,500	90.6	86.5	94.7	3,500
Infant always or often shared bed	36.4	31.8	41.0	3,300	37.2	29.3	45.1	1,000	37.3	27.6	46.9	800	33.6	26.3	40.9	1,300
Intended to breastfeed, before birth	93.4	90.9	96.0	8,400	89.6 *	83.1	96.0	2,400	96.0 *	93.0	99.0	2,000	94.9 *	91.7	98.1	3,600
Intended to breastfeed exclusively, before birth	64.6	60.1	69.2	5,800	51.6	43.2	59.9	1,400	69.9	60.6	79.2	1,400	73.6	67.0	80.2	2,800
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	90.2	87.7	92.7	8,000	87.6	82.7	92.6	2,400	87.2	81.1	93.4	1,700	93.9	90.7	97.0	3,600
Exclusive breastfeeding, 1 month after delivery	51.8	46.9	56.6	4,400	50.0	41.1	58.8	1,200	50.3	40.1	60.5	1,000	52.9	45.4	60.4	2,000
Any breastfeeding, 3 months after delivery	75.6	70.6	80.7	4,800	67.3	57.7	76.9	1,500	76.4	66.9	86.0	1,100	84.3	77.0	91.6	2,000
Exclusive breastfeeding, 3 months after delivery	38.2	32.8	43.5	2,400	27.6	19.3	35.8	600	46.4	34.6	58.3	600	43.4	34.5	52.3	1,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				0-100% Federal Poverty Guideline				101-200% Federal Poverty Guideline				> 200% Federal Poverty Guideline			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	73.6	65.6	81.6	2,000	67.6	58.2	77.0	1,400	80.0	73.8	86.3	3,100
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	87.3	81.9	92.7	2,300	93.2 *	88.8	97.6	1,900	96.1 *	93.0	99.1	3,700
Received dental care during pregnancy	42.7	38.1	47.4	3,800	36.3	28.4	44.1	1,000	41.6	31.8	51.3	800	49.1	41.7	56.6	1,900
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	52.4	44.0	60.8	1,400	69.1	60.0	78.3	1,400	69.3	62.6	76.0	2,700
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	68.9	60.4	77.4	1,900	72.6	63.7	81.5	1,500	63.1	56.1	70.1	2,500
Had a postpartum medical visit	91.5	88.7	94.3	8,300	87.7	82.8	92.5	2,400	86.5 *	78.4	94.6	1,800	--			
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	29.0	24.8	33.2	2,700	60.1	51.9	68.4	1,700	35.3	25.5	45.0	700	2.7 *	0.7	4.8	100
Uninsured	15.0	11.8	18.2	1,400	27.0	19.9	34.1	700	19.4	11.8	27.0	400	2.9 *	0.3	5.5	100
Private	50.6	45.9	55.3	4,600	10.9	4.5	17.3	300	38.0	28.1	47.9	800	88.4	82.9	93.9	3,500
Prenatal insurance																
Medi-Cal	48.3	43.6	53.0	4,400	92.5	88.6	96.5	2,500	60.2	50.1	70.3	1,200	9.5	5.4	13.7	400
Uninsured	1.2 *	0.3	2.0	100	--				--				--			
Private	45.3	40.6	50.1	4,100	4.7 *	1.5	8.0	100	32.4	22.6	42.2	700	82.5	76.4	88.7	3,200
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	15.8	9.9	21.7	400	9.9	4.4	15.4	200	3.9 *	1.0	6.7	200
Maternal postpartum insurance																
Medi-Cal	36.6	32.1	41.1	3,300	74.5	66.9	82.1	2,000	43.6	33.6	53.6	900	4.8 *	1.7	7.8	200
Uninsured	11.0	8.3	13.8	1,000	16.5	10.9	22.1	500	16.9	9.7	24.0	300	3.5 *	0.7	6.4	100
Private	47.8	43.0	52.6	4,300	6.1 *	0.2	12.1	200	34.3	24.4	44.1	700	86.2	81.3	91.2	3,400
Infant health insurance																
Medi-Cal	48.9	44.1	53.6	4,400	91.6 *	85.3	97.9	2,500	63.7	53.6	73.8	1,300	8.2	4.3	12.1	300
Uninsured	1.6 *	0.5	2.8	100	--				--				--			
Private	45.0	40.2	49.8	4,100	--				29.6	19.9	39.3	600	85.3	80.3	90.3	3,300
Maternal Demographics																
First live birth	36.6	32.1	41.2	3,400	24.7	17.9	31.5	700	36.8	27.2	46.4	800	44.3	36.9	51.7	1,700
Less than high school education (or GED)	14.5	11.4	17.7	1,300	34.6	26.7	42.5	1,000	10.2	4.8	15.5	200	--			
Unmarried	40.1	35.4	44.8	3,700	69.3	61.9	76.6	1,900	54.3	44.3	64.3	1,100	11.4	6.5	16.2	400
Race/Ethnicity																
White	34.0	29.5	38.4	3,000	12.6	7.0	18.3	300	22.7	14.2	31.2	500	57.3	49.8	64.8	2,200
Hispanic	57.7	53.0	62.4	5,100	84.6	78.6	90.5	2,300	73.3	64.5	82.2	1,500	27.7	21.3	34.1	1,100
Asian/Pacific Islander	6.9	3.8	9.9	600	--				--				14.1	7.6	20.6	500
Black	1.3 *	0.4	2.1	100	--				1.2 *	0.1	2.3	<100	--			
Born outside the U.S.	34.7	30.3	39.1	3,200	51.4	43.0	59.8	1,400	33.5	24.4	42.7	700	21.9	15.2	28.5	900
Speaks non-English language at home	31.9	27.7	36.2	2,900	49.3	41.0	57.6	1,400	37.2	27.8	46.7	800	14.9	9.5	20.4	600
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	9.9 *	3.7	16.1	300	4.6 *	0.3	8.9	<100	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			9,200	50.1	45.4	54.9	4,600	30.8	26.3	35.2	2,800	14.7	11.6	17.8	1,300	4.4	2.1	6.6	400
Health Status before Pregnancy																				
In good to excellent health	88.6	85.5	91.6	8,100	92.1	88.7	95.5	4,200	84.3	77.5	91.2	2,400	84.2	75.9	92.4	1,100	--			
Chronic conditions																				
Diabetes	3.1	1.3	4.8	300	2.0 *	0.3	3.8	<100	--				4.0 *	0.5	7.6	<100	--			
Hypertension	2.7	1.2	4.2	200	3.1 *	0.5	5.6	100	2.4 *	0.1	4.6	<100	--				--			
Asthma	7.5	5.1	9.8	700	7.3	4.1	10.5	300	5.5 *	1.6	9.3	100	13.7	5.7	21.8	200	--			
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	34.0	29.4	38.7	3,100	39.6	32.8	46.3	1,800	32.7	24.3	41.2	900	23.5	14.3	32.8	300	--			
Overweight before pregnancy†	28.4	24.1	32.7	2,600	27.6	21.3	33.9	1,300	26.8	19.2	34.5	700	33.2	22.5	43.8	400	31.6 *	10.4	52.8	100
Obese before pregnancy†	24.9	21.1	28.8	2,300	21.4	16.1	26.7	1,000	24.3	17.4	31.1	700	38.3	27.4	49.2	500	21.2 *	4.5	37.9	<100
Inadequate weight gain during pregnancy†	19.7	15.9	23.5	1,700	23.3	17.5	29.1	1,000	16.4	10.0	22.8	400	16.2	7.7	24.8	200	--			
Excessive weight gain during pregnancy†	41.9	37.1	46.7	3,600	38.1	31.4	44.8	1,600	48.2	39.2	57.1	1,200	39.7	28.5	51.0	500	46.1	23.6	68.7	100
Food insecurity during pregnancy	15.9	12.6	19.2	1,400	14.6	9.9	19.2	700	16.7	10.8	22.7	500	16.5	8.1	24.9	200	21.0 *	3.7	38.3	<100
Nutrition Program Participation																				
Participated in WIC during pregnancy	39.7	35.1	44.3	3,600	24.3	18.7	30.0	1,100	49.6	40.6	58.5	1,400	62.7	51.5	73.9	800	--			
Received CalFresh (food stamps) during pregnancy	19.7	16.1	23.3	1,800	13.6	9.3	18.0	600	27.6	19.6	35.6	800	20.0	11.8	28.2	300	35.5 *	13.6	57.3	100
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8	9.1	600	5.4	2.3	8.6	300	6.6 *	1.7	11.4	200	--				--			
Prenatal depressive symptoms†	15.4	11.9	19.0	1,400	9.8	6.2	13.4	400	20.2	13.1	27.4	600	19.2	10.5	28.0	300	35.9 *	5.0	66.8	100
Postpartum depressive symptoms†	13.7	10.5	16.8	1,200	10.7	7.0	14.4	500	15.8	9.1	22.6	400	22.3	12.9	31.8	300	--			
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	2.1 *	0.8	3.4	200	2.4 *	0.4	4.4	100	--				--				--			
Moved due to problems paying rent or mortgage	5.9	3.5	8.3	500	7.5	3.9	11.1	300	4.9 *	0.2	9.7	100	--				--			
Woman or partner lost job	14.6	11.1	18.0	1,300	14.0	9.2	18.8	600	14.6	7.8	21.4	400	15.3	7.6	23.0	200	20.4 *	4.1	36.7	<100
Woman or partner had pay or hours cut back	11.4	8.5	14.3	1,000	12.2	7.9	16.6	600	10.7	5.4	15.9	300	9.3 *	3.2	15.3	100	15.5 *	1.1	29.9	<100
Became separated or divorced	6.1	3.7	8.6	600	4.5	2.0	7.1	200	4.9 *	1.7	8.2	100	5.6 *	0.7	10.4	<100	36.9 *	6.8	67.1	100
Had no practical or emotional support	4.3	2.1	6.5	400	3.1 *	0.8	5.4	100	3.3 *	1.0	5.7	<100	--				--			
Substance Use																				
Any smoking, 3 months before pregnancy	6.1	4.0	8.2	600	6.6	3.7	9.5	300	6.9 *	2.4	11.4	200	4.8 *	0.4	9.1	<100	--			
Any smoking, 3rd trimester	1.7 *	0.6	2.8	200	2.0 *	0.4	3.6	<100	--				--				--			
Any smoking, postpartum	1.9 *	0.7	3.2	200	1.7 *	0.3	3.0	<100	--				--				--			
Any binge drinking, 3 months before pregnancy	14.2	11.1	17.3	1,300	16.0	11.4	20.6	700	13.2	7.6	18.9	400	12.3 *	5.0	19.7	200	--			
Any alcohol use, 3rd trimester	7.8	5.5	10.2	700	10.5	6.6	14.3	500	5.8 *	1.9	9.7	200	4.3 *	0.4	8.1	<100	--			
Any cannabis use during pregnancy	3.5	1.6	5.5	300	1.5 *	0.0	3.0	<100	8.0 *	2.5	13.6	200	--				--			
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	26.8	22.5	31.1	2,400	24.6	18.6	30.6	1,100	25.5	18.3	32.8	700	31.1	20.8	41.3	400	45.7 *	18.4	72.9	200
Unsure of pregnancy intentions	13.0	9.7	16.2	1,200	13.3	8.5	18.1	600	14.1	8.1	20.0	400	13.4	5.7	21.0	200	--			
Postpartum birth control use	81.7	78.0	85.5	7,300	78.9	73.8	84.0	3,500	84.2	77.5	90.8	2,300	90.2 *	83.5	97.0	1,200	66.2 *	36.0	96.5	300
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	82.9	79.3	86.6	7,500	81.8	76.6	86.9	3,700	82.7	75.6	89.8	2,300	86.8 *	79.0	94.7	1,200	--			
Infant always or often shared bed	36.4	31.8	41.0	3,300	36.0	29.5	42.6	1,600	34.9	26.6	43.3	1,000	36.8	26.0	47.7	500	48.5	21.7	75.4	200
Intended to breastfeed, before birth	93.4	90.9	96.0	8,400	95.6	93.2	97.9	4,300	93.7 *	89.9	97.6	2,600	90.5 *	83.3	97.8	1,200	--			
Intended to breastfeed exclusively, before birth	64.6	60.1	69.2	5,800	69.9	63.8	76.0	3,200	63.6	55.1	72.1	1,700	58.0	46.8	69.1	800	37.7 *	14.0	61.5	200
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	90.2	87.7	92.7	8,000	92.8	89.8	95.8	4,100	89.7	84.9	94.4	2,400	83.2	74.9	91.5	1,100	--			
Exclusive breastfeeding, 1 month after delivery	51.8	46.9	56.6	4,400	50.9	44.2	57.6	2,200	53.5	44.4	62.6	1,400	57.0	45.1	69.0	700	28.2 *	6.2	50.2	100
Any breastfeeding, 3 months after delivery	75.6	70.6	80.7	4,800	82.7	77.1	88.4	2,500	76.7	67.0	86.3	1,500	61.8	49.3	74.3	600	50.0 *	19.1	80.8	200
Exclusive breastfeeding, 3 months after delivery	38.2	32.8	43.5	2,400	41.1	33.5	48.7	1,200	37.7	27.7	47.7	700	33.6	21.0	46.1	300	--			

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	77.5	72.0	83.0	3,500	74.5	66.4	82.5	2,100	65.1	53.9	76.2	900	62.2 *	33.3	91.1	200
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	94.5	91.8	97.2	4,200	88.5	83.0	94.0	2,500	92.4 *	86.4	98.5	1,200	--			
Received dental care during pregnancy	42.7	38.1	47.4	3,800	45.5	39.0	52.0	2,000	41.2	32.7	49.8	1,100	37.5	26.3	48.6	500	40.8 *	15.7	65.8	200
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	66.8	60.7	72.8	3,000	58.3	49.5	67.2	1,600	66.9	56.4	77.5	900	47.8	21.0	74.6	200
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	67.1	61.0	73.1	3,000	62.1	53.3	70.9	1,700	79.7	71.0	88.5	1,100	59.3 *	29.3	89.3	200
Had a postpartum medical visit	91.5	88.7	94.3	8,300	92.6	89.5	95.8	4,200	90.6 *	84.5	96.7	2,500	91.1 *	84.0	98.3	1,200	--			
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	29.0	24.8	33.2	2,700	24.7	19.0	30.4	1,100	30.9	23.0	38.8	900	38.5	27.5	49.5	500	33.0 *	10.2	55.8	100
Uninsured	15.0	11.8	18.2	1,400	8.2	4.7	11.6	400	17.9	11.7	24.2	500	29.1	18.4	39.7	400	28.2 *	8.0	48.5	100
Private	50.6	45.9	55.3	4,600	60.9	54.3	67.4	2,800	44.5	35.6	53.5	1,300	31.2	20.9	41.5	400	38.8 *	9.3	68.3	100
Prenatal insurance																				
Medi-Cal	48.3	43.6	53.0	4,400	35.8	29.5	42.1	1,600	52.2	43.2	61.2	1,400	74.5	64.8	84.3	1,000	81.9 *	64.3	99.5	300
Uninsured	1.2 *	0.3	2.0	100	--				--				--				--			
Private	45.3	40.6	50.1	4,100	57.5	50.8	64.1	2,600	39.5	30.5	48.5	1,100	23.9	14.4	33.5	300	--			
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	8.9	5.5	12.4	400	8.8	4.1	13.5	200	11.3 *	3.5	19.0	100	--			
Maternal postpartum insurance																				
Medi-Cal	36.6	32.1	41.1	3,300	30.4	24.3	36.5	1,400	41.6	33.0	50.2	1,200	43.5	32.3	54.7	600	52.9	25.4	80.3	200
Uninsured	11.0	8.3	13.8	1,000	4.1	1.7	6.4	200	11.5	6.5	16.4	300	30.3	19.5	41.1	400	20.2 *	3.6	36.7	<100
Private	47.8	43.0	52.6	4,300	60.6	54.2	67.0	2,800	40.4	31.5	49.4	1,100	25.0	15.4	34.6	300	--			
Infant health insurance																				
Medi-Cal	48.9	44.1	53.6	4,400	34.5	28.2	40.7	1,600	56.9	48.1	65.8	1,600	73.0	62.9	83.1	1,000	--			
Uninsured	1.6 *	0.5	2.8	100	--				3.4 *	0.5	6.2	<100	--				--			
Private	45.0	40.2	49.8	4,100	60.5	54.0	66.9	2,700	34.0	25.2	42.8	900	21.3	12.1	30.4	300	--			
Maternal Demographics																				
Age																				
15-19	3.9	1.8	6.1	400	3.4 *	0.2	6.6	200	4.4 *	0.7	8.0	100	--				--			
20-34	73.7	69.5	77.9	6,800	71.0	64.8	77.1	3,200	75.4	67.8	83.1	2,100	79.0	70.1	88.0	1,100	76.5 *	59.0	93.9	300
35+	22.3	18.5	26.2	2,000	25.7	19.9	31.4	1,200	20.2	13.0	27.3	600	16.0	8.7	23.2	200	19.8 *	4.0	35.6	<100
First live birth	36.6	32.1	41.2	3,400	39.8	33.3	46.2	1,800	32.4	24.1	40.7	900	42.1	30.7	53.5	600	--			
Less than high school education (or GED)	14.5	11.4	17.7	1,300	8.1	4.8	11.5	400	17.8	11.0	24.5	500	22.8	13.8	31.9	300	32.2 *	10.9	53.6	100
Unmarried	40.1	35.4	44.8	3,700	32.4	26.1	38.6	1,500	44.9	36.1	53.7	1,200	45.7	34.5	56.9	600	75.1 *	57.1	93.0	300
Race/Ethnicity																				
White	34.0	29.5	38.4	3,000	48.3	41.6	55.0	2,100	29.1	20.9	37.3	800	7.8 *	1.7	13.8	100	--			
Hispanic	57.7	53.0	62.4	5,100	39.3	32.9	45.8	1,700	65.2	56.5	73.9	1,800	89.0 *	82.1	95.9	1,200	--			
Asian/Pacific Islander	6.9	3.8	9.9	600	10.0	4.8	15.2	400	5.6 *	0.7	10.5	200	--				--			
Black	1.3 *	0.4	2.1	100	2.0 *	0.5	3.5	<100	--				--				--			
Born outside the U.S.	34.7	30.3	39.1	3,200	26.8	20.7	32.8	1,200	34.2	26.2	42.2	1,000	50.1	38.8	61.4	700	--			
Speaks non-English language at home	31.9	27.7	36.2	2,900	18.9	13.9	23.8	900	37.3	29.1	45.6	1,000	51.2	39.9	62.5	700	--			
Income as a percent of the Federal Poverty Guideline																				
0-100%	31.7	27.2	36.1	2,800	20.5	15.2	25.8	900	40.3	31.5	49.0	1,100	38.8	27.8	49.8	500	70.1 *	47.1	93.1	300
101-200%	23.6	19.4	27.7	2,100	17.8	12.7	23.0	800	26.0	17.8	34.2	700	37.8	26.3	49.2	500	24.3 *	3.0	45.6	<100
> 200%	44.8	39.9	49.6	3,900	61.7	55.1	68.2	2,700	33.8	25.0	42.6	900	23.4	13.7	33.1	300	--			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Ventura County, n=369).
Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA
Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Ventura County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		9,200	48.3	43.6 - 53.0	4,400	45.3	40.6 - 50.1	4,100
Health Status before Pregnancy									
In good to excellent health	88.6	85.5 - 91.6	8,100	84.2	79.6 - 88.8	3,700	92.3	88.0 - 96.6	3,800
Chronic conditions									
Diabetes	3.1	1.3 - 4.8	300	2.5 *	0.6 - 4.4	100	3.2 *	0.3 - 6.2	100
Hypertension	2.7	1.2 - 4.2	200	2.5 *	0.6 - 4.4	100	3.3 *	0.5 - 6.0	100
Asthma	7.5	5.1 - 9.8	700	6.2	3.0 - 9.4	300	9.5	5.7 - 13.3	400
Nutrition and Weight									
Daily folic acid use, month before pregnancy	34.0	29.4 - 38.7	3,100	22.5	16.8 - 28.1	1,000	45.3	38.2 - 52.4	1,900
Overweight before pregnancy†	28.4	24.1 - 32.7	2,600	29.6	23.6 - 35.6	1,300	26.6	20.4 - 32.8	1,100
Obese before pregnancy†	24.9	21.1 - 28.8	2,300	31.2	25.4 - 37.1	1,400	20.5	14.9 - 26.1	800
Inadequate weight gain during pregnancy†	19.7	15.9 - 23.5	1,700	20.5	15.3 - 25.8	900	20.2	14.1 - 26.3	700
Excessive weight gain during pregnancy†	41.9	37.1 - 46.7	3,600	41.6	35.0 - 48.1	1,700	40.7	33.6 - 47.9	1,500
Food insecurity during pregnancy	15.9	12.6 - 19.2	1,400	28.3	22.5 - 34.2	1,200	4.5 *	1.8 - 7.3	200
Nutrition Program Participation									
Participated in WIC during pregnancy	39.7	35.1 - 44.3	3,600	73.4	67.5 - 79.3	3,100	7.7	3.4 - 12.0	300
Received CalFresh (food stamps) during pregnancy	19.7	16.1 - 23.3	1,800	38.2	31.9 - 44.5	1,600	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8 - 9.1	600	12.1	7.1 - 17.1	500	--		
Prenatal depressive symptoms†	15.4	11.9 - 19.0	1,400	16.6	12.0 - 21.2	700	12.1	7.3 - 16.9	500
Postpartum depressive symptoms†	13.7	10.5 - 16.8	1,200	15.6	11.1 - 20.2	700	11.8	7.0 - 16.5	500
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.1 *	0.8 - 3.4	200	4.1 *	1.5 - 6.7	200	--		
Moved due to problems paying rent or mortgage	5.9	3.5 - 8.3	500	9.8	5.3 - 14.2	400	2.0 *	0.1 - 3.9	<100
Woman or partner lost job	14.6	11.1 - 18.0	1,300	23.7	18.0 - 29.4	1,000	6.5 *	2.2 - 10.7	300
Woman or partner had pay or hours cut back	11.4	8.5 - 14.3	1,000	16.5	11.6 - 21.4	700	7.2	3.5 - 10.8	300
Became separated or divorced	6.1	3.7 - 8.6	600	9.4	5.8 - 13.0	400	--		
Had no practical or emotional support	4.3	2.1 - 6.5	400	6.7	3.8 - 9.5	300	--		
Substance Use									
Any smoking, 3 months before pregnancy	6.1	4.0 - 8.2	600	8.9	5.3 - 12.5	400	3.4 *	0.9 - 5.9	100
Any smoking, 3rd trimester	1.7 *	0.6 - 2.8	200	2.5 *	0.7 - 4.2	100	--		
Any smoking, postpartum	1.9 *	0.7 - 3.2	200	2.8 *	0.7 - 5.0	100	--		
Any binge drinking, 3 months before pregnancy	14.2	11.1 - 17.3	1,300	14.8	10.4 - 19.2	600	14.1	9.2 - 18.9	600
Any alcohol use, 3rd trimester	7.8	5.5 - 10.2	700	4.0 *	1.4 - 6.6	200	12.6	8.2 - 17.0	500
Any cannabis use during pregnancy	3.5	1.6 - 5.5	300	3.8 *	1.3 - 6.3	200	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	26.8	22.5 - 31.1	2,400	31.2	25.5 - 37.0	1,300	19.5	13.7 - 25.4	800
Unsure of pregnancy intentions	13.0	9.7 - 16.2	1,200	21.4	15.7 - 27.1	900	6.1	2.9 - 9.2	200
Postpartum birth control use	81.7	78.0 - 85.5	7,300	84.2	79.6 - 88.8	3,600	80.7	75.1 - 86.3	3,200
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	79.3 - 86.6	7,500	78.7	73.0 - 84.3	3,400	87.4	82.5 - 92.3	3,500
Infant always or often shared bed	36.4	31.8 - 41.0	3,300	40.4	34.0 - 46.7	1,700	32.5	25.8 - 39.2	1,300
Intended to breastfeed, before birth	93.4	90.9 - 96.0	8,400	93.3	90.1 - 96.5	4,000	94.4	91.5 - 97.3	3,800
Intended to breastfeed exclusively, before birth	64.6	60.1 - 69.2	5,800	58.5	52.0 - 65.0	2,500	70.5	64.1 - 77.0	2,800
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.2	87.7 - 92.7	8,000	88.7	85.0 - 92.4	3,700	92.2	88.7 - 95.7	3,700
Exclusive breastfeeding, 1 month after delivery	51.8	46.9 - 56.6	4,400	54.0	47.3 - 60.7	2,100	50.2	43.0 - 57.5	2,000
Any breastfeeding, 3 months after delivery	75.6	70.6 - 80.7	4,800	69.2	62.3 - 76.0	2,400	86.4	80.0 - 92.8	2,200
Exclusive breastfeeding, 3 months after delivery	38.2	32.8 - 43.5	2,400	32.1	25.1 - 39.1	1,000	46.3	37.5 - 55.1	1,200

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	67.4	61.2	73.5	2,900	81.8	75.8	87.7	3,300
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	88.6	84.5	92.6	3,700	96.4 *	93.8	99.0	3,900
Received dental care during pregnancy	42.7	38.1	47.4	3,800	38.3	32.1	44.6	1,600	45.9	38.8	52.9	1,900
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	60.2	53.8	66.6	2,600	68.3	61.7	74.9	2,800
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	70.4	64.4	76.3	3,000	64.3	57.5	71.1	2,600
Had a postpartum medical visit	91.5	88.7	94.3	8,300	88.6	84.4	92.7	3,800	94.2 *	90.1	98.4	3,900
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	29.0	24.8	33.2	2,700	60.4	54.0	66.7	2,600	--			
Uninsured	15.0	11.8	18.2	1,400	27.6	21.8	33.4	1,200	--			
Private	50.6	45.9	55.3	4,600	10.2	6.4	13.9	400	--			
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	13.3	9.0	17.7	600	2.1 *	0.3	4.0	<100
Maternal postpartum insurance												
Medi-Cal	36.6	32.1	41.1	3,300	72.5	66.8	78.2	3,100	2.0 *	0.3	3.7	<100
Uninsured	11.0	8.3	13.8	1,000	20.8	15.7	26.0	900	--			
Private	47.8	43.0	52.6	4,300	5.9	3.0	8.8	300	95.9 *	93.3	98.5	3,900
Infant health insurance												
Medi-Cal	48.9	44.1	53.6	4,400	93.3	90.0	96.7	4,000	5.5	2.7	8.4	200
Uninsured	1.6 *	0.5	2.8	100	--				--			
Private	45.0	40.2	49.8	4,100	4.3 *	1.6	7.0	200	92.3	88.9	95.7	3,700
Maternal Demographics												
Age												
15-19	3.9	1.8	6.1	400	7.2 *	2.9	11.4	300	--			
20-34	73.7	69.5	77.9	6,800	78.8	73.3	84.2	3,400	67.6	60.9	74.3	2,800
35+	22.3	18.5	26.2	2,000	14.1	10.0	18.2	600	32.1	25.4	38.8	1,300
First live birth	36.6	32.1	41.2	3,400	30.3	24.4	36.3	1,300	41.4	34.4	48.3	1,700
Less than high school education (or GED)	14.5	11.4	17.7	1,300	28.7	22.9	34.5	1,200	--			
Unmarried	40.1	35.4	44.8	3,700	63.9	57.7	70.0	2,800	17.0	11.1	22.9	700
Race/Ethnicity												
White	34.0	29.5	38.4	3,000	13.1	8.6	17.5	600	55.8	48.6	62.9	2,200
Hispanic	57.7	53.0	62.4	5,100	84.6	80.0	89.3	3,600	32.4	25.8	39.0	1,300
Asian/Pacific Islander	6.9	3.8	9.9	600	1.1 *	0.1	2.1	<100	10.2	5.2	15.3	400
Black	1.3 *	0.4	2.1	100	1.2 *	0.2	2.2	<100	--			
Born outside the U.S.	34.7	30.3	39.1	3,200	51.0	44.4	57.5	2,200	17.7	12.2	23.2	700
Speaks non-English language at home	31.9	27.7	36.2	2,900	50.5	44.0	57.0	2,200	13.4	8.3	18.5	500
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	6.0	3.2	8.8	300	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	31.7	27.2	36.1	2,800	60.8	54.2	67.4	2,500	3.1 *	0.9	5.4	100
101-200%	23.6	19.4	27.7	2,100	30.0	23.8	36.3	1,200	16.4	10.8	22.0	700
> 200%	44.8	39.9	49.6	3,900	9.1	5.2	13.1	400	80.5	74.6	86.3	3,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		9,200	57.7	53.0 - 62.4	5,100	1.3 *	0.4 - 2.1	100	34.0	29.5 - 38.4	3,000	6.9	3.8 - 9.9	600
Health Status before Pregnancy															
In good to excellent health	88.6	85.5 - 91.6	8,100	85.4	81.2 - 89.7	4,400	--			91.9 *	86.7 - 97.1	2,800	--		
Chronic conditions															
Diabetes	3.1	1.3 - 4.8	300	2.8 *	1.1 - 4.6	100	--			--			--		
Hypertension	2.7	1.2 - 4.2	200	2.0 *	0.5 - 3.4	<100	--			2.4 *	0.3 - 4.5	<100	--		
Asthma	7.5	5.1 - 9.8	700	5.5	2.7 - 8.4	300	--			10.7	6.1 - 15.3	300	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	34.0	29.4 - 38.7	3,100	24.5	19.1 - 29.8	1,300	--			44.8	36.8 - 52.8	1,400	63.5	43.6 - 83.5	400
Overweight before pregnancy†	28.4	24.1 - 32.7	2,600	29.8	24.4 - 35.3	1,500	--			26.6	19.1 - 34.0	800	31.5 *	8.1 - 54.9	200
Obese before pregnancy†	24.9	21.1 - 28.8	2,300	31.8	26.4 - 37.2	1,600	--			16.4	10.5 - 22.3	500	--		
Inadequate weight gain during pregnancy†	19.7	15.9 - 23.5	1,700	20.0	15.2 - 24.8	900	--			14.7	9.2 - 20.2	400	33.7 *	11.6 - 55.8	200
Excessive weight gain during pregnancy†	41.9	37.1 - 46.7	3,600	39.7	33.8 - 45.6	1,900	--			44.0	35.8 - 52.2	1,200	42.7	18.4 - 67.0	300
Food insecurity during pregnancy	15.9	12.6 - 19.2	1,400	20.6	15.9 - 25.3	1,000	--			11.7	6.3 - 17.1	400	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	39.7	35.1 - 44.3	3,600	65.2	59.1 - 71.2	3,300	--			6.0 *	2.2 - 9.8	200	--		
Received CalFresh (food stamps) during pregnancy	19.7	16.1 - 23.3	1,800	26.7	21.5 - 31.9	1,400	--			8.5	4.0 - 13.1	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8 - 9.1	600	9.2	5.0 - 13.3	500	--			--			--		
Prenatal depressive symptoms†	15.4	11.9 - 19.0	1,400	19.4	14.2 - 24.5	1,000	25.6 *	1.8 - 49.3	<100	8.7	4.4 - 13.1	300	20.6 *	1.4 - 39.8	100
Postpartum depressive symptoms†	13.7	10.5 - 16.8	1,200	14.5	10.3 - 18.6	700	--			11.6	6.7 - 16.6	400	22.2 *	2.9 - 41.5	100
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	2.1 *	0.8 - 3.4	200	2.5 *	0.6 - 4.4	100	--			--			--		
Moved due to problems paying rent or mortgage	5.9	3.5 - 8.3	500	4.6	2.2 - 6.9	200	--			7.1 *	2.8 - 11.5	200	--		
Woman or partner lost job	14.6	11.1 - 18.0	1,300	16.8	12.4 - 21.3	800	--			9.2	4.3 - 14.2	300	--		
Woman or partner had pay or hours cut back	11.4	8.5 - 14.3	1,000	11.4	7.7 - 15.1	600	--			13.3	7.5 - 19.1	400	--		
Became separated or divorced	6.1	3.7 - 8.6	600	9.3	5.2 - 13.5	500	--			--			--		
Had no practical or emotional support	4.3	2.1 - 6.5	400	7.0	3.3 - 10.8	400	--			--			--		
Often experienced racism over her lifetime	7.3	5.2 - 9.4	700	9.1	6.0 - 12.1	500	43.0 *	9.6 - 76.3	<100	3.4 *	0.5 - 6.2	100	--		
Substance Use															
Any smoking, 3 months before pregnancy	6.1	4.0 - 8.2	600	3.5 *	1.3 - 5.6	200	--			9.4	4.9 - 13.9	300	--		
Any smoking, 3rd trimester	1.7 *	0.6 - 2.8	200	--			--			3.7 *	0.8 - 6.6	100	--		
Any smoking, postpartum	1.9 *	0.7 - 3.2	200	--			--			3.3 *	0.6 - 6.0	<100	--		
Any binge drinking, 3 months before pregnancy	14.2	11.1 - 17.3	1,300	13.6	9.6 - 17.7	700	--			16.8	11.0 - 22.7	500	--		
Any alcohol use, 3rd trimester	7.8	5.5 - 10.2	700	4.2	1.9 - 6.6	200	--			14.3	9.0 - 19.6	400	--		
Any cannabis use during pregnancy	3.5	1.6 - 5.5	300	3.0 *	0.3 - 5.8	200	--			4.0 *	1.1 - 7.0	100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	26.8	22.5 - 31.1	2,400	33.0	27.2 - 38.7	1,700	--			14.1	8.7 - 19.6	400	35.3 *	11.1 - 59.6	200
Unsure of pregnancy intentions	13.0	9.7 - 16.2	1,200	15.8	11.1 - 20.5	800	45.0 *	13.3 - 76.7	<100	9.6	4.6 - 14.6	300	--		
Postpartum birth control use	81.7	78.0 - 85.5	7,300	85.1	80.4 - 89.8	4,300	--			75.8	68.8 - 82.9	2,300	81.9 *	68.0 - 95.8	500
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	82.9	79.3 - 86.6	7,500	81.0	75.8 - 86.2	4,100	--			84.4	78.7 - 90.2	2,500	87.2 *	75.3 - 99.1	500
Infant always or often shared bed	36.4	31.8 - 41.0	3,300	39.1	33.2 - 45.0	2,000	68.8 *	40.3 - 97.2	<100	27.9	20.7 - 35.0	800	47.2	23.3 - 71.1	300
Intended to breastfeed, before birth	93.4	90.9 - 96.0	8,400	91.6	87.6 - 95.6	4,700	--			95.6 *	92.4 - 98.8	2,900	--		
Intended to breastfeed exclusively, before birth	64.6	60.1 - 69.2	5,800	54.4	48.2 - 60.5	2,800	--			77.6	70.9 - 84.4	2,300	77.3 *	60.9 - 93.7	400
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	90.2	87.7 - 92.7	8,000	88.5	85.1 - 92.0	4,400	--			92.0	87.7 - 96.2	2,700	--		
Exclusive breastfeeding, 1 month after delivery	51.8	46.9 - 56.6	4,400	46.6	40.4 - 52.9	2,200	--			55.8	47.6 - 63.9	1,600	59.0	37.0 - 81.1	300
Any breastfeeding, 3 months after delivery	75.6	70.6 - 80.7	4,800	71.4	65.0 - 77.8	2,800	--			82.4	73.8 - 90.9	1,600	--		
Exclusive breastfeeding, 3 months after delivery	38.2	32.8 - 43.5	2,400	31.0	24.5 - 37.4	1,200	--			49.3	39.2 - 59.4	900	50.9	22.2 - 79.5	100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Ventura County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	74.2	69.9 - 78.5	6,800	69.9	64.0 - 75.8	3,600	--			82.2	75.9 - 88.4	2,500	74.9 *	55.3 - 94.6	500
Initiated prenatal care in 1st trimester	92.4	90.0 - 94.8	8,300	90.1	86.5 - 93.7	4,500	--			96.2 *	93.1 - 99.3	2,900	--		
Received dental care during pregnancy	42.7	38.1 - 47.4	3,800	38.2	32.4 - 44.0	1,900	--			52.9	44.8 - 60.9	1,600	42.2	19.6 - 64.9	300
Received a Tdap vaccine during pregnancy	63.4	58.8 - 67.9	5,800	61.6	55.5 - 67.6	3,100	32.8 *	5.3 - 60.3	<100	64.3	56.6 - 72.0	1,900	86.3 *	74.9 - 97.8	500
Received a flu shot during pregnancy	67.0	62.5 - 71.5	6,100	72.3	66.7 - 78.0	3,700	39.5 *	8.6 - 70.3	<100	55.9	47.9 - 63.9	1,700	87.8 *	76.6 - 99.0	500
Had a postpartum medical visit	91.5	88.7 - 94.3	8,300	89.4	85.4 - 93.4	4,500	--			96.1 *	93.4 - 98.8	2,900	--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	29.0	24.8 - 33.2	2,700	39.8	33.9 - 45.8	2,000	--			13.4	8.0 - 18.8	400	--		
Uninsured	15.0	11.8 - 18.2	1,400	24.8	19.6 - 29.9	1,300	--			2.8 *	0.3 - 5.3	<100	--		
Private	50.6	45.9 - 55.3	4,600	33.1	27.2 - 39.0	1,700	42.6 *	9.3 - 76.0	<100	77.3	70.7 - 84.0	2,300	67.9 *	44.7 - 91.1	400
Prenatal insurance															
Medi-Cal	48.3	43.6 - 53.0	4,400	70.9	65.4 - 76.5	3,600	45.6 *	13.8 - 77.3	<100	18.4	12.2 - 24.5	600	7.7 *	0.2 - 15.1	<100
Uninsured	1.2 *	0.3 - 2.0	100	1.2 *	0.1 - 2.3	<100	--			--			--		
Private	45.3	40.6 - 50.1	4,100	25.6	20.3 - 31.0	1,300	--			74.0	67.0 - 81.0	2,200	67.2 *	43.9 - 90.5	400
Had any gaps in insurance during pregnancy	9.0	6.5 - 11.6	800	12.2	8.3 - 16.1	600	--			5.1 *	1.6 - 8.5	200	--		
Maternal postpartum insurance															
Medi-Cal	36.6	32.1 - 41.1	3,300	50.7	44.6 - 56.9	2,600	45.6 *	13.8 - 77.3	<100	16.3	10.4 - 22.1	500	--		
Uninsured	11.0	8.3 - 13.8	1,000	18.2	13.7 - 22.8	900	--			--			--		
Private	47.8	43.0 - 52.6	4,300	29.0	23.2 - 34.8	1,500	--			74.2	67.3 - 81.2	2,200	77.9 *	63.1 - 92.7	500
Infant health insurance															
Medi-Cal	48.9	44.1 - 53.6	4,400	70.7	64.9 - 76.6	3,600	45.6 *	13.8 - 77.3	<100	18.3	12.2 - 24.5	600	14.1 *	1.7 - 26.5	<100
Uninsured	1.6 *	0.5 - 2.8	100	1.2 *	0.1 - 2.3	<100	--			--			--		
Private	45.0	40.2 - 49.8	4,100	25.9	20.2 - 31.6	1,300	--			72.3	65.1 - 79.4	2,200	74.9 *	58.8 - 91.1	400
Maternal Demographics															
Age															
15-19	3.9	1.8 - 6.1	400	6.3	2.6 - 10.0	300	--			--			--		
20-34	73.7	69.5 - 77.9	6,800	77.2	72.0 - 82.5	4,000	45.6 *	13.8 - 77.3	<100	69.7	62.5 - 77.0	2,100	72.5 *	52.9 - 92.2	400
35+	22.3	18.5 - 26.2	2,000	16.5	12.2 - 20.8	800	--			29.6	22.4 - 36.8	900	27.5 *	7.8 - 47.1	200
First live birth	36.6	32.1 - 41.2	3,400	31.1	25.7 - 36.6	1,600	--			42.6	34.7 - 50.5	1,300	64.2 *	43.0 - 85.3	400
Less than high school education (or GED)	14.5	11.4 - 17.7	1,300	23.3	18.5 - 28.2	1,200	--			--			--		
Unmarried	40.1	35.4 - 44.8	3,700	53.2	47.2 - 59.2	2,700	47.6 *	15.4 - 79.8	<100	21.0	14.4 - 27.7	600	--		
Born outside the U.S.	34.7	30.3 - 39.1	3,200	47.6	41.5 - 53.6	2,400	--			7.9	3.6 - 12.3	200	72.4 *	53.1 - 91.6	400
Speaks non-English language at home	31.9	27.7 - 36.2	2,900	48.4	42.3 - 54.4	2,500	--			3.1 *	0.4 - 5.9	<100	52.6	29.2 - 76.0	300
Lives in a high poverty neighborhood†	4.4	2.1 - 6.6	400	7.8	3.9 - 11.7	400	--			--			--		
Income as a percent of the Federal Poverty Guideline															
0-100%	31.7	27.2 - 36.1	2,800	47.0	40.7 - 53.3	2,300	--			11.3	6.2 - 16.4	300	--		
101-200%	23.6	19.4 - 27.7	2,100	31.0	24.9 - 37.1	1,500	24.1 *	1.1 - 47.2	<100	15.4	9.4 - 21.4	500	--		
> 200%	44.8	39.9 - 49.6	3,900	22.0	16.8 - 27.1	1,100	--			73.3	66.1 - 80.5	2,200	88.6 *	77.6 - 99.6	500

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Ventura County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		9,200	36.6	32.1 - 41.2	3,400	63.4	58.8 - 67.9	5,800
Health Status before Pregnancy									
In good to excellent health	88.6	85.5 - 91.6	8,100	89.2	83.9 - 94.6	3,000	88.2	84.5 - 91.8	5,100
Chronic conditions									
Diabetes	3.1	1.3 - 4.8	300	--			2.6 *	1.1 - 4.2	100
Hypertension	2.7	1.2 - 4.2	200	--			3.6 *	1.3 - 5.9	200
Asthma	7.5	5.1 - 9.8	700	7.2	3.5 - 10.9	200	7.6	4.6 - 10.6	400
Nutrition and Weight									
Daily folic acid use, month before pregnancy	34.0	29.4 - 38.7	3,100	37.3	29.4 - 45.1	1,200	32.2	26.5 - 37.9	1,900
Overweight before pregnancy†	28.4	24.1 - 32.7	2,600	28.7	21.1 - 36.4	1,000	28.2	23.0 - 33.4	1,600
Obese before pregnancy†	24.9	21.1 - 28.8	2,300	18.7	13.1 - 24.3	600	28.5	23.4 - 33.6	1,600
Inadequate weight gain during pregnancy†	19.7	15.9 - 23.5	1,700	15.1	9.6 - 20.6	500	22.4	17.4 - 27.5	1,200
Excessive weight gain during pregnancy†	41.9	37.1 - 46.7	3,600	46.5	38.4 - 54.6	1,500	39.2	33.4 - 45.0	2,100
Food insecurity during pregnancy	15.9	12.6 - 19.2	1,400	13.5	8.3 - 18.7	500	17.3	13.1 - 21.5	1,000
Nutrition Program Participation									
Participated in WIC during pregnancy	39.7	35.1 - 44.3	3,600	29.0	22.3 - 35.7	1,000	45.9	40.0 - 51.8	2,600
Received CalFresh (food stamps) during pregnancy	19.7	16.1 - 23.3	1,800	8.0	4.3 - 11.7	300	26.6	21.4 - 31.7	1,500
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	6.4	3.8 - 9.1	600	9.3 *	3.7 - 14.8	300	4.8	2.2 - 7.3	300
Prenatal depressive symptoms†	15.4	11.9 - 19.0	1,400	13.4	7.7 - 19.1	400	16.6	12.1 - 21.1	1,000
Postpartum depressive symptoms†	13.7	10.5 - 16.8	1,200	18.2	11.8 - 24.6	600	11.1	7.9 - 14.3	600
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	2.1 *	0.8 - 3.4	200	--			3.0 *	1.1 - 4.9	200
Moved due to problems paying rent or mortgage	5.9	3.5 - 8.3	500	4.5 *	1.7 - 7.3	100	6.7	3.4 - 10.1	400
Woman or partner lost job	14.6	11.1 - 18.0	1,300	10.9	6.3 - 15.4	400	16.8	12.1 - 21.4	900
Woman or partner had pay or hours cut back	11.4	8.5 - 14.3	1,000	13.8	8.6 - 19.0	500	10.0	6.5 - 13.5	600
Became separated or divorced	6.1	3.7 - 8.6	600	7.0	3.3 - 10.7	200	5.6	2.3 - 9.0	300
Had no practical or emotional support	4.3	2.1 - 6.5	400	--			5.8	2.6 - 9.1	300
Substance Use									
Any smoking, 3 months before pregnancy	6.1	4.0 - 8.2	600	8.3	4.1 - 12.5	300	4.8	2.5 - 7.0	300
Any smoking, 3rd trimester	1.7 *	0.6 - 2.8	200	3.0 *	0.5 - 5.5	<100	--		
Any smoking, postpartum	1.9 *	0.7 - 3.2	200	3.0 *	0.2 - 5.9	100	1.3 *	0.2 - 2.4	<100
Any binge drinking, 3 months before pregnancy	14.2	11.1 - 17.3	1,300	15.6	10.3 - 20.8	500	13.3	9.5 - 17.2	800
Any alcohol use, 3rd trimester	7.8	5.5 - 10.2	700	8.3	4.3 - 12.4	300	7.6	4.6 - 10.5	400
Any cannabis use during pregnancy	3.5	1.6 - 5.5	300	5.1 *	1.7 - 8.6	200	2.6 *	0.3 - 5.0	200
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	26.8	22.5 - 31.1	2,400	25.9	18.7 - 33.1	800	27.3	22.0 - 32.7	1,600
Unsure of pregnancy intentions	13.0	9.7 - 16.2	1,200	11.7	6.7 - 16.6	400	13.7	9.5 - 17.9	800
Postpartum birth control use	81.7	78.0 - 85.5	7,300	76.3	69.6 - 83.0	2,500	84.8	80.4 - 89.3	4,800
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	82.9	79.3 - 86.6	7,500	84.6	79.0 - 90.2	2,800	82.0	77.3 - 86.7	4,700
Infant always or often shared bed	36.4	31.8 - 41.0	3,300	34.3	26.6 - 41.9	1,100	37.6	31.9 - 43.3	2,200
Intended to breastfeed, before birth	93.4	90.9 - 96.0	8,400	93.3	89.5 - 97.0	3,100	93.5	90.1 - 96.9	5,400
Intended to breastfeed exclusively, before birth	64.6	60.1 - 69.2	5,800	69.8	62.7 - 76.9	2,300	61.7	55.8 - 67.5	3,500
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	90.2	87.7 - 92.7	8,000	89.6	85.1 - 94.0	2,900	90.6	87.6 - 93.6	5,100
Exclusive breastfeeding, 1 month after delivery	51.8	46.9 - 56.6	4,400	48.7	40.7 - 56.7	1,500	53.6	47.5 - 59.7	2,900
Any breastfeeding, 3 months after delivery	75.6	70.6 - 80.7	4,800	72.1	63.5 - 80.8	1,600	77.6	71.4 - 83.7	3,200
Exclusive breastfeeding, 3 months after delivery	38.2	32.8 - 43.5	2,400	35.7	27.2 - 44.1	800	39.5	32.7 - 46.4	1,600

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MIHA Data Snapshot, Ventura County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Ventura County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	74.2	69.9	78.5	6,800	66.0	58.6	73.4	2,200	78.9	73.7	84.1	4,600
Initiated prenatal care in 1st trimester	92.4	90.0	94.8	8,300	91.3	86.9	95.7	3,000	93.0	90.2	95.8	5,300
Received dental care during pregnancy	42.7	38.1	47.4	3,800	45.2	37.5	52.9	1,500	41.3	35.5	47.0	2,300
Received a Tdap vaccine during pregnancy	63.4	58.8	67.9	5,800	66.2	59.0	73.4	2,200	61.7	55.9	67.6	3,500
Received a flu shot during pregnancy	67.0	62.5	71.5	6,100	64.1	56.7	71.4	2,100	68.7	63.0	74.4	3,900
Had a postpartum medical visit	91.5	88.7	94.3	8,300	92.4 *	87.7	97.0	3,100	91.0	87.5	94.4	5,200
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	29.0	24.8	33.2	2,700	22.0	15.9	28.1	700	33.1	27.6	38.6	1,900
Uninsured	15.0	11.8	18.2	1,400	14.9	9.5	20.4	500	15.1	11.1	19.0	900
Private	50.6	45.9	55.3	4,600	55.2	47.4	63.0	1,900	47.9	42.0	53.9	2,800
Prenatal insurance												
Medi-Cal	48.3	43.6	53.0	4,400	39.6	32.1	47.1	1,300	53.5	47.6	59.4	3,000
Uninsured	1.2 *	0.3	2.0	100	2.3 *	0.3	4.3	<100	--			
Private	45.3	40.6	50.1	4,100	50.7	42.9	58.5	1,700	42.2	36.4	48.1	2,400
Had any gaps in insurance during pregnancy	9.0	6.5	11.6	800	11.8	7.0	16.6	400	7.4	4.5	10.4	400
Maternal postpartum insurance												
Medi-Cal	36.6	32.1	41.1	3,300	32.4	25.3	39.4	1,100	39.0	33.3	44.8	2,200
Uninsured	11.0	8.3	13.8	1,000	8.3	4.0	12.7	300	12.6	9.0	16.1	700
Private	47.8	43.0	52.6	4,300	53.9	46.2	61.6	1,800	44.2	38.3	50.2	2,500
Infant health insurance												
Medi-Cal	48.9	44.1	53.6	4,400	41.1	33.6	48.7	1,300	53.3	47.3	59.3	3,100
Uninsured	1.6 *	0.5	2.8	100	2.1 *	0.2	4.1	<100	--			
Private	45.0	40.2	49.8	4,100	51.1	43.4	58.9	1,700	41.5	35.6	47.5	2,400
Maternal Demographics												
Age												
15-19	3.9	1.8	6.1	400	7.1	3.0	11.2	200	--			
20-34	73.7	69.5	77.9	6,800	79.3	73.0	85.6	2,700	70.5	65.0	75.9	4,100
35+	22.3	18.5	26.2	2,000	13.6	8.3	18.9	500	27.4	22.2	32.6	1,600
Less than high school education (or GED)	14.5	11.4	17.7	1,300	5.9 *	2.1	9.7	200	19.6	15.2	24.0	1,100
Unmarried	40.1	35.4	44.8	3,700	38.1	30.6	45.6	1,300	41.2	35.3	47.2	2,400
Race/Ethnicity												
White	34.0	29.5	38.4	3,000	39.3	31.7	46.9	1,300	30.9	25.4	36.3	1,700
Hispanic	57.7	53.0	62.4	5,100	48.8	40.9	56.6	1,600	62.9	57.2	68.7	3,500
Asian/Pacific Islander	6.9	3.8	9.9	600	12.0	5.3	18.6	400	3.9 *	1.3	6.5	200
Black	1.3 *	0.4	2.1	100	--				2.0 *	0.7	3.3	100
Born outside the U.S.	34.7	30.3	39.1	3,200	27.8	20.4	35.3	900	38.6	33.1	44.2	2,200
Speaks non-English language at home	31.9	27.7	36.2	2,900	26.6	19.7	33.4	900	35.0	29.6	40.5	2,000
Lives in a high poverty neighborhood†	4.4	2.1	6.6	400	--				5.8	2.5	9.1	300
Income as a percent of the Federal Poverty Guideline												
0-100%	31.7	27.2	36.1	2,800	21.5	15.4	27.7	700	37.5	31.6	43.3	2,100
101-200%	23.6	19.4	27.7	2,100	23.9	17.1	30.6	800	23.4	18.1	28.7	1,300
> 200%	44.8	39.9	49.6	3,900	54.6	46.6	62.5	1,700	39.2	33.2	45.1	2,200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Ventura County, n=369).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Ventura County was 573. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			15-19 Years			20-34 Years			35 Years or Older		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	3.6 *	0.4 - 6.7	<100	72.9	66.0 - 79.9	1,600	23.5	17.0 - 30.0	500
Health Status before Pregnancy												
In good to excellent health	90.7 *	85.2 - 96.2	2,000	--			91.1 *	84.3 - 97.8	1,500	--		
Chronic conditions												
Diabetes	4.6 *	1.1 - 8.1	100	--			--			12.1 *	1.2 - 23.0	<100
Hypertension	3.5 *	0.6 - 6.3	<100	--			--			--		
Asthma	10.8	5.6 - 16.0	200	--			12.9	6.2 - 19.7	200	--		
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	--			37.0	28.1 - 45.9	600	36.8	22.8 - 50.7	200
Overweight before pregnancy†	27.4	20.5 - 34.3	600	--			23.6	16.2 - 30.9	400	32.3	17.5 - 47.0	200
Obese before pregnancy†	28.1	20.3 - 35.8	600	--			26.0	16.9 - 35.1	400	35.7	19.8 - 51.6	200
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	--			21.1	12.5 - 29.8	300	28.0	14.1 - 41.8	100
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	--			41.6	32.1 - 51.1	600	29.0	13.9 - 44.2	100
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	--			11.5 *	3.5 - 19.6	200	24.8 *	8.8 - 40.8	100
Nutrition Program Participation												
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	--			33.0	23.7 - 42.3	500	46.0	30.0 - 62.1	200
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	--			12.9	6.2 - 19.5	200	25.6 *	10.0 - 41.1	100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	--			2.4 *	0.1 - 4.6	<100	--		
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	--			12.0	5.7 - 18.2	200	23.0 *	7.6 - 38.4	100
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	--			8.9 *	3.4 - 14.4	100	13.1 *	2.6 - 23.6	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	--			2.0 *	0.3 - 3.7	<100	--		
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	--			2.3 *	0.5 - 4.2	<100	--		
Woman or partner lost job	9.4	4.2 - 14.6	200	--			--			21.3 *	7.7 - 34.9	100
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	--			4.0 *	0.5 - 7.5	<100	25.6	11.1 - 40.0	100
Became separated or divorced	4.2 *	1.0 - 7.3	<100	--			3.7 *	0.3 - 7.1	<100	--		
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	--			3.4 *	0.8 - 6.0	<100	16.0 *	2.1 - 29.9	<100
Substance Use												
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	--			10.1 *	3.5 - 16.6	200	--		
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	--			--			--		
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	--			8.2 *	1.8 - 14.6	100	--		
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	--			11.6	6.2 - 17.0	200	25.0 *	10.0 - 39.9	100
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	--			7.2 *	2.6 - 11.7	100	17.8 *	6.3 - 29.3	<100
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	--			3.3 *	1.2 - 5.3	<100	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	--			19.6	11.6 - 27.5	300	21.7 *	8.5 - 34.9	100
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	--			11.6	5.6 - 17.6	200	11.1 *	1.3 - 20.9	<100
Postpartum birth control use	85.5	79.4 - 91.7	1,900	--			88.3	81.7 - 95.0	1,400	75.5 *	60.9 - 90.1	400
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	--			83.4	75.9 - 90.9	1,300	88.0 *	77.9 - 98.1	400
Infant always or often shared bed	32.7	25.3 - 40.1	700	--			26.1	18.3 - 34.0	400	50.6	34.9 - 66.2	300
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	--			95.8 *	92.9 - 98.8	1,500	--		
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	--			74.3	65.9 - 82.6	1,200	71.4	56.2 - 86.5	400
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	--			87.6 *	79.0 - 96.2	1,400	88.9 *	80.1 - 97.7	400
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	--			67.9	58.0 - 77.8	1,000	50.2	34.3 - 66.0	200
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	--			78.4	68.4 - 88.4	1,000	84.4 *	72.1 - 96.6	300
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	--			53.3	42.3 - 64.3	600	41.8	22.6 - 61.1	100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Maternal Age, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				15-19 Years				20-34 Years				35 Years or Older			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization																
Had a usual source of pre-pregnancy care	77.8	70.2	85.4	1,700	--				75.1	65.8	84.3	1,200	--			
Initiated prenatal care in 1st trimester	93.1 *	88.9	97.4	2,000	--				93.0 *	88.1	97.9	1,500	--			
Received dental care during pregnancy	58.5	50.4	66.6	1,300	--				59.4	49.8	69.1	1,000	62.8	47.8	77.7	300
Received a Tdap vaccine during pregnancy	78.1	71.1	85.1	1,700	--				79.0	70.7	87.2	1,300	82.4 *	71.0	93.9	400
Received a flu shot during pregnancy	75.1	68.0	82.2	1,700	--				72.3	63.4	81.1	1,200	81.8 *	70.5	93.1	400
Had a postpartum medical visit	92.4 *	87.5	97.3	2,100	--				92.5 *	86.6	98.5	1,500	96.6 *	93.3	99.9	500
Health Insurance Coverage																
Pre-pregnancy insurance																
Medi-Cal	33.3	25.3	41.2	700	--				35.7	26.2	45.3	600	24.2 *	9.4	39.0	100
Uninsured	10.1	4.8	15.5	200	--				9.6 *	3.1	16.1	200	12.4 *	1.8	22.9	<100
Private	54.5	46.3	62.6	1,200	--				52.7	42.9	62.4	900	60.8	45.1	76.5	300
Prenatal insurance																
Medi-Cal	43.2	35.1	51.3	1,000	--				43.9	34.3	53.6	700	38.1	22.4	53.8	200
Uninsured	--				--				--				--			
Private	52.3	44.1	60.4	1,200	--				50.1	40.4	59.8	800	61.1	45.5	76.8	300
Had any gaps in insurance during pregnancy	9.5 *	3.4	15.6	200	--				12.4 *	4.3	20.6	200	--			
Maternal postpartum insurance																
Medi-Cal	43.1	34.8	51.4	900	--				42.7	32.8	52.6	700	36.3	20.3	52.2	200
Uninsured	4.6 *	1.5	7.6	100	--				6.0 *	1.9	10.1	<100	--			
Private	51.5	43.3	59.6	1,100	--				50.2	40.5	59.9	800	62.5	46.6	78.5	300
Infant health insurance																
Medi-Cal	47.4	39.4	55.5	1,000	--				47.8	38.2	57.4	800	39.0	23.2	54.8	200
Uninsured	--				--				--				--			
Private	51.4	43.3	59.4	1,100	--				50.7	41.1	60.2	800	60.7	44.9	76.5	300
Maternal Demographics																
First live birth	38.3	30.5	46.2	900	--				40.9	31.4	50.3	700	27.1	13.7	40.6	100
Less than high school education (or GED)	11.1	5.2	16.9	200	--				10.2 *	3.4	17.1	200	15.4 *	2.8	28.0	<100
Unmarried	29.8	21.6	37.9	700	--				28.2	18.6	37.9	500	29.9	14.2	45.6	200
Race/Ethnicity																
White	42.7	34.7	50.8	900	--				44.8	35.1	54.6	700	41.4	26.2	56.7	200
Hispanic	40.5	32.3	48.7	900	--				37.2	27.5	46.9	600	44.9	29.2	60.6	200
Asian/Pacific Islander	13.3	7.3	19.2	300	--				14.4	6.9	21.8	200	12.0 *	2.2	21.7	<100
Black	3.4 *	0.8	5.9	<100	--				3.5 *	0.3	6.7	<100	--			
Born outside the U.S.	33.7	26.1	41.2	800	--				31.6	22.9	40.4	500	43.8	28.3	59.4	200
Speaks non-English language at home	29.1	21.8	36.5	600	--				29.5	20.8	38.2	500	32.1	17.0	47.1	200
Lives in a high poverty neighborhood†	15.3	10.2	20.5	300	--				14.7	8.8	20.5	200	17.6 *	6.0	29.3	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	11.1	5.2 - 16.9	200	22.9	15.8 - 30.0	500	25.3	17.8 - 32.7	600	40.7	33.1 - 48.4	900
Health Status before Pregnancy															
In good to excellent health	90.7 *	85.2 - 96.2	2,000	66.2 *	35.9 - 96.5	200	--			85.8 *	73.5 - 98.1	500	--		
Chronic conditions															
Diabetes	4.6 *	1.1 - 8.1	100	--			--			--			--		
Hypertension	3.5 *	0.6 - 6.3	<100	--			--			--			--		
Asthma	10.8	5.6 - 16.0	200	--			--			18.8 *	3.2 - 34.4	100	9.6 *	3.2 - 16.0	<100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	32.6 *	9.3 - 55.8	<100	23.4 *	8.4 - 38.5	100	20.8	9.0 - 32.6	100	55.3	44.5 - 66.1	500
Overweight before pregnancy†	27.4	20.5 - 34.3	600	--			26.2	11.2 - 41.2	100	27.7	13.1 - 42.3	200	29.1	19.3 - 39.0	300
Obese before pregnancy†	28.1	20.3 - 35.8	600	55.5 *	28.1 - 82.8	100	40.5	22.1 - 59.0	200	27.1	11.3 - 42.9	100	14.5	6.7 - 22.3	100
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	--			34.6	16.5 - 52.8	200	30.0	13.6 - 46.4	200	9.0	4.1 - 14.0	<100
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	51.7	23.8 - 79.6	<100	29.8	13.4 - 46.3	100	45.9	27.9 - 64.0	200	39.7	29.0 - 50.4	300
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	37.2 *	6.3 - 68.1	<100	--			22.8 *	5.5 - 40.0	100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	69.3 *	39.6 - 99.1	200	58.6	40.3 - 76.8	300	51.6	33.9 - 69.3	300	9.1 *	2.6 - 15.6	<100
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	53.4 *	25.6 - 81.2	100	27.3	12.2 - 42.3	100	18.5 *	6.2 - 30.8	100	1.3 *	0.2 - 2.4	<100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	--			--			--			--		
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	--			20.1 *	6.8 - 33.4	100	18.9 *	4.8 - 33.0	100	7.6 *	1.6 - 13.6	<100
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	--			11.8 *	1.8 - 21.7	<100	19.5 *	5.3 - 33.6	100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	--			--			--			--		
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	--			--			4.0 *	0.3 - 7.7	<100	--		
Woman or partner lost job	9.4	4.2 - 14.6	200	--			--			12.6 *	2.9 - 22.3	<100	5.2 *	0.6 - 9.8	<100
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	--			--			16.9 *	5.6 - 28.2	<100	7.5 *	0.5 - 14.4	<100
Became separated or divorced	4.2 *	1.0 - 7.3	<100	--			--			8.5 *	0.3 - 16.6	<100	--		
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	--			--			--			--		
Substance Use															
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	--			9.8 *	1.1 - 18.5	<100	13.4 *	2.1 - 24.6	<100	--		
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	--			--			--			--		
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	--			9.6 *	0.9 - 18.2	<100	--			--		
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	--			13.5 *	2.4 - 24.5	<100	23.2 *	9.2 - 37.2	100	13.9	5.9 - 22.0	100
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	--			--			--			14.8	7.2 - 22.4	100
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	--			--			11.4 *	1.9 - 20.8	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	42.0 *	12.7 - 71.3	100	21.6 *	7.4 - 35.7	100	25.4	11.3 - 39.4	100	11.7 *	4.6 - 18.8	100
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	--			31.2	14.9 - 47.6	200	--			6.2 *	1.8 - 10.6	<100
Postpartum birth control use	85.5	79.4 - 91.7	1,900	--			--			--			81.0	72.1 - 89.9	700
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	--			64.5	46.2 - 82.8	300	83.6 *	71.9 - 95.3	400	93.7 *	89.2 - 98.3	800
Infant always or often shared bed	32.7	25.3 - 40.1	700	54.3	27.6 - 81.0	100	27.7	12.9 - 42.4	100	35.5	18.6 - 52.4	200	29.7	19.9 - 39.4	300
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	--			--			--			--		
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	45.2	19.3 - 71.0	<100	70.1	54.1 - 86.1	400	78.0 *	63.2 - 92.9	400	80.0	71.2 - 88.7	700
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	--			74.2 *	56.2 - 92.2	400	76.1 *	57.6 - 94.6	400	97.9 *	96.0 - 99.8	900
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	77.9 *	58.5 - 97.2	200	57.3	38.1 - 76.6	300	63.3	44.3 - 82.4	300	64.5	53.7 - 75.4	600
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	--			73.1 *	56.5 - 89.7	300	61.4	39.9 - 82.9	300	91.2 *	84.5 - 98.0	600
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	73.4 *	52.0 - 94.9	100	41.5	22.0 - 60.9	200	44.0	23.7 - 64.3	200	53.8	40.7 - 66.8	300

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Education, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	70.2 - 85.4	1,700	61.7 *	31.0 - 92.4	200	72.8 *	55.3 - 90.2	400	79.0 *	64.2 - 93.8	400	85.8	77.7 - 93.9	800
Initiated prenatal care in 1st trimester	93.1 *	88.9 - 97.4	2,000	--			86.0 *	73.5 - 98.5	400	--			--		
Received dental care during pregnancy	58.5	50.4 - 66.6	1,300	56.1 *	27.3 - 84.9	100	57.5	39.7 - 75.2	300	48.6	31.0 - 66.2	300	67.0	56.1 - 77.9	600
Received a Tdap vaccine during pregnancy	78.1	71.1 - 85.1	1,700	--			84.3 *	71.7 - 96.9	400	61.8	45.2 - 78.5	300	85.0	77.0 - 93.0	800
Received a flu shot during pregnancy	75.1	68.0 - 82.2	1,700	65.7 *	36.3 - 95.0	200	80.7 *	68.3 - 93.1	400	70.3	54.8 - 85.9	400	78.9	69.9 - 88.0	700
Had a postpartum medical visit	92.4 *	87.5 - 97.3	2,100	--			88.8 *	78.6 - 99.0	500	--			--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	33.3	25.3 - 41.2	700	51.6 *	23.0 - 80.2	100	45.5	27.6 - 63.4	200	51.1	33.7 - 68.5	300	9.2 *	2.8 - 15.5	<100
Uninsured	10.1	4.8 - 15.5	200	38.9 *	9.1 - 68.7	<100	12.6 *	1.6 - 23.7	<100	5.7 *	1.2 - 10.1	<100	--		
Private	54.5	46.3 - 62.6	1,200	--			38.6	21.1 - 56.0	200	40.7	23.7 - 57.6	200	85.3	77.8 - 92.7	800
Prenatal insurance															
Medi-Cal	43.2	35.1 - 51.3	1,000	--			62.7	45.2 - 80.3	300	56.3	39.1 - 73.6	300	15.2	7.1 - 23.3	100
Uninsured	--			--			--			--			--		
Private	52.3	44.1 - 60.4	1,200	--			34.8	17.4 - 52.3	200	41.1	24.0 - 58.3	200	81.9	73.0 - 90.7	700
Had any gaps in insurance during pregnancy	9.5 *	3.4 - 15.6	200	--			16.6 *	3.4 - 29.9	<100	--			--		
Maternal postpartum insurance															
Medi-Cal	43.1	34.8 - 51.4	900	--			65.9	49.3 - 82.6	300	55.4	38.0 - 72.8	300	12.4 *	4.9 - 19.8	100
Uninsured	4.6 *	1.5 - 7.6	100	--			--			--			--		
Private	51.5	43.3 - 59.6	1,100	--			25.8 *	10.4 - 41.2	100	39.1	21.8 - 56.4	200	85.5	77.9 - 93.1	800
Infant health insurance															
Medi-Cal	47.4	39.4 - 55.5	1,000	--			78.3 *	63.7 - 93.0	400	54.9	37.4 - 72.5	300	16.2	7.9 - 24.4	100
Uninsured	--			--			--			--			--		
Private	51.4	43.3 - 59.4	1,100	--			21.7 *	7.0 - 36.3	100	41.2	23.7 - 58.7	200	83.2	75.0 - 91.5	800
Maternal Demographics															
First live birth	38.3	30.5 - 46.2	900	--			27.7	11.5 - 43.9	100	28.9	12.8 - 45.1	200	58.9	48.5 - 69.4	500
Unmarried	29.8	21.6 - 37.9	700	51.6	23.5 - 79.7	100	46.9	28.6 - 65.1	200	47.6	30.0 - 65.2	300	4.2 *	0.6 - 7.8	<100
Race/Ethnicity															
White	42.7	34.7 - 50.8	900	--			16.4 *	5.3 - 27.6	<100	36.0	19.0 - 53.0	200	66.6	56.2 - 77.1	600
Hispanic	40.5	32.3 - 48.7	900	--			73.7	59.7 - 87.6	400	43.4	25.9 - 60.9	200	9.9	4.1 - 15.6	<100
Asian/Pacific Islander	13.3	7.3 - 19.2	300	--			--			--			22.2	12.6 - 31.9	200
Black	3.4 *	0.8 - 5.9	<100	--			--			--			--		
Born outside the U.S.	33.7	26.1 - 41.2	800	55.7 *	27.0 - 84.4	100	51.3	33.5 - 69.2	300	8.9 *	3.4 - 14.5	<100	31.9	21.4 - 42.3	300
Speaks non-English language at home	29.1	21.8 - 36.5	600	54.7 *	25.9 - 83.5	100	37.9	21.4 - 54.4	200	17.0 *	2.2 - 31.7	<100	23.3	13.5 - 33.1	200
Lives in a high poverty neighborhood†	15.3	10.2 - 20.5	300	--			13.2 *	2.3 - 24.2	<100	7.9 *	2.2 - 13.6	<100	20.1	11.5 - 28.8	200
Income as a percent of the Federal Poverty Guideline															
0-100%	25.1	17.1 - 33.1	500	61.8 *	32.7 - 91.0	100	38.0	19.3 - 56.7	200	33.7	15.5 - 51.9	200	--		
101-200%	22.4	15.8 - 28.9	500	--			34.2	16.5 - 52.0	100	29.7	15.9 - 43.4	200	11.5 *	4.0 - 19.1	<100
> 200%	52.5	44.0 - 61.0	1,100	--			27.8 *	9.0 - 46.6	100	36.6	18.9 - 54.4	200	85.1	77.0 - 93.2	700

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total	100			2,200	91.3	87.2	95.5	1,900	8.7	4.5	12.8	200
Health Status before Pregnancy												
In good to excellent health	90.7 *	85.2	96.2	2,000	92.4 *	87.5	97.2	1,800	--			
Chronic conditions												
Diabetes	4.6 *	1.1	8.1	100	5.2 *	1.1	9.3	<100	--			
Hypertension	3.5 *	0.6	6.3	<100	3.1 *	0.1	6.1	<100	--			
Asthma	10.8	5.6	16.0	200	10.4	4.7	16.1	200	--			
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.3	29.8	44.7	800	38.2	30.3	46.2	700	48.8	23.8	73.8	<100
Overweight before pregnancy†	27.4	20.5	34.3	600	28.1	20.7	35.4	500	--			
Obese before pregnancy†	28.1	20.3	35.8	600	27.7	19.4	35.9	500	34.4 *	8.9	59.9	<100
Inadequate weight gain during pregnancy†	22.2	15.1	29.3	500	21.8	14.4	29.1	400	12.5 *	0.4	24.5	<100
Excessive weight gain during pregnancy†	39.7	31.7	47.7	800	40.5	31.9	49.0	700	32.1 *	7.3	56.9	<100
Food insecurity during pregnancy	14.3	7.2	21.4	300	11.7	5.3	18.1	200	--			
Nutrition Program Participation												
Participated in WIC during pregnancy	38.1	30.0	46.2	800	35.4	26.9	43.9	700	47.3	22.3	72.3	<100
Received CalFresh (food stamps) during pregnancy	17.3	10.7	23.8	400	15.6	9.3	21.9	300	17.3 *	2.7	31.8	<100
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7	4.3	<100	2.1 *	0.3	3.9	<100	--			
Prenatal depressive symptoms†	14.5	8.5	20.6	300	13.5	7.6	19.5	300	--			
Postpartum depressive symptoms†	9.6	4.8	14.3	200	7.9	3.8	12.0	200	--			
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	1.9 *	0.5	3.3	<100	2.2 *	0.6	3.8	<100	--			
Moved due to problems paying rent or mortgage	1.9 *	0.5	3.3	<100	1.7 *	0.3	3.2	<100	--			
Woman or partner lost job	9.4	4.2	14.6	200	8.1	3.9	12.4	200	--			
Woman or partner had pay or hours cut back	9.0	4.5	13.6	200	10.4	5.2	15.6	200	--			
Became separated or divorced	4.2 *	1.0	7.3	<100	2.5 *	0.1	4.9	<100	--			
Had no practical or emotional support	6.2 *	2.2	10.3	100	6.1 *	1.6	10.7	100	11.9 *	0.7	23.1	<100
Substance Use												
Any smoking, 3 months before pregnancy	9.2	4.0	14.4	200	6.8	2.8	10.7	100	--			
Any smoking, 3rd trimester	5.4 *	0.8	9.9	100	2.6 *	0.2	5.0	<100	--			
Any smoking, postpartum	7.6 *	2.5	12.7	200	5.2 *	1.4	8.9	<100	--			
Any binge drinking, 3 months before pregnancy	14.7	9.2	20.2	300	16.2	10.0	22.4	300	--			
Any alcohol use, 3rd trimester	9.8	5.4	14.1	200	11.0	6.0	16.0	200	--			
Any cannabis use during pregnancy	4.2 *	1.6	6.9	<100	4.8 *	1.8	7.9	<100	--			
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	20.7	13.9	27.5	500	19.7	13.0	26.4	400	--			
Unsure of pregnancy intentions	11.7	6.7	16.7	300	9.9	4.9	14.9	200	30.2 *	5.7	54.8	<100
Postpartum birth control use	85.5	79.4	91.7	1,900	83.6	76.7	90.5	1,600	--			
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.6	77.3	89.9	1,800	84.2	77.5	90.8	1,600	--			
Infant always or often shared bed	32.7	25.3	40.1	700	33.0	25.2	40.7	600	22.6 *	6.4	38.9	<100
Intended to breastfeed, before birth	94.8 *	91.6	98.1	2,100	95.6 *	92.8	98.3	1,800	--			
Intended to breastfeed exclusively, before birth	73.3	66.0	80.6	1,600	76.0	68.5	83.6	1,400	44.7	21.2	68.2	<100
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	86.8	79.9	93.7	1,800	87.8 *	80.4	95.2	1,600	--			
Exclusive breastfeeding, 1 month after delivery	63.4	55.2	71.7	1,300	63.9	55.2	72.7	1,200	60.1 *	32.6	87.5	<100
Any breastfeeding, 3 months after delivery	78.5	70.1	86.8	1,300	78.2	69.1	87.2	1,100	--			
Exclusive breastfeeding, 3 months after delivery	49.8	40.4	59.2	800	50.2	40.3	60.1	700	32.6 *	7.4	57.8	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Geographical Area, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				Urban				Rural/Frontier			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	70.2	85.4	1,700	80.9	73.7	88.1	1,600	75.4 *	52.0	98.9	100
Initiated prenatal care in 1st trimester	93.1 *	88.9	97.4	2,000	93.0 *	88.3	97.6	1,700	--			
Received dental care during pregnancy	58.5	50.4	66.6	1,300	59.1	50.7	67.6	1,100	56.8	32.0	81.5	100
Received a Tdap vaccine during pregnancy	78.1	71.1	85.1	1,700	81.1	74.9	87.4	1,600	--			
Received a flu shot during pregnancy	75.1	68.0	82.2	1,700	75.9	69.1	82.7	1,500	--			
Had a postpartum medical visit	92.4 *	87.5	97.3	2,100	95.4 *	92.6	98.2	1,800	--			
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	33.3	25.3	41.2	700	32.1	23.7	40.6	600	33.3 *	11.6	55.0	<100
Uninsured	10.1	4.8	15.5	200	8.3	3.9	12.6	200	--			
Private	54.5	46.3	62.6	1,200	57.4	48.8	65.9	1,100	61.2	38.5	83.9	100
Prenatal insurance												
Medi-Cal	43.2	35.1	51.3	1,000	41.8	33.3	50.4	800	43.5	19.8	67.3	<100
Uninsured	--				--				--			
Private	52.3	44.1	60.4	1,200	55.3	46.7	63.9	1,100	56.5	32.7	80.2	100
Had any gaps in insurance during pregnancy	9.5 *	3.4	15.6	200	7.6 *	2.1	13.1	100	--			
Maternal postpartum insurance												
Medi-Cal	43.1	34.8	51.4	900	39.6	30.9	48.2	700	49.7	24.8	74.6	<100
Uninsured	4.6 *	1.5	7.6	100	3.4 *	0.4	6.3	<100	11.0 *	0.7	21.2	<100
Private	51.5	43.3	59.6	1,100	56.0	47.3	64.7	1,100	39.3 *	14.7	64.0	<100
Infant health insurance												
Medi-Cal	47.4	39.4	55.5	1,000	44.1	35.5	52.7	800	59.3 *	34.3	84.2	100
Uninsured	--				--				--			
Private	51.4	43.3	59.4	1,100	54.5	45.9	63.1	1,000	40.7 *	15.8	65.7	<100
Maternal Demographics												
Age												
15-19	3.6 *	0.4	6.7	<100	--				--			
20-34	72.9	66.0	79.9	1,600	71.9	64.4	79.5	1,400	64.5 *	40.0	89.0	100
35+	23.5	17.0	30.0	500	25.9	18.6	33.2	500	14.5 *	1.2	27.8	<100
First live birth	38.3	30.5	46.2	900	40.4	32.0	48.8	800	43.1	17.8	68.4	<100
Less than high school education (or GED)	11.1	5.2	16.9	200	8.4 *	3.4	13.5	200	--			
Unmarried	29.8	21.6	37.9	700	27.3	19.1	35.5	500	29.5 *	10.4	48.6	<100
Race/Ethnicity												
White	42.7	34.7	50.8	900	44.2	35.7	52.6	800	29.1 *	9.5	48.7	<100
Hispanic	40.5	32.3	48.7	900	37.0	28.5	45.5	700	64.6 *	42.7	86.4	100
Asian/Pacific Islander	13.3	7.3	19.2	300	15.3	8.5	22.0	300	--			
Black	3.4 *	0.8	5.9	<100	3.4 *	0.6	6.2	<100	--			
Born outside the U.S.	33.7	26.1	41.2	800	34.7	26.6	42.8	700	32.9 *	9.1	56.6	<100
Speaks non-English language at home	29.1	21.8	36.5	600	29.9	21.9	37.9	600	28.2 *	7.6	48.7	<100
Lives in a high poverty neighborhood†	15.3	10.2	20.5	300	16.8	11.2	22.4	300	--			
Income as a percent of the Federal Poverty Guideline												
0-100%	25.1	17.1	33.1	500	18.1	11.1	25.1	300	60.9	38.0	83.7	100
101-200%	22.4	15.8	28.9	500	23.6	16.4	30.8	400	--			
> 200%	52.5	44.0	61.0	1,100	58.3	49.5	67.0	1,000	32.5 *	11.5	53.5	<100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.
* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).
† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).
‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Yolo County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	25.1	17.1 - 33.1	500	22.4	15.8 - 28.9	500	52.5	44.0 - 61.0	1,100
Health Status before Pregnancy												
In good to excellent health	90.7 *	85.2 - 96.2	2,000	75.3 *	57.5 - 93.1	400	--			--		
Chronic conditions												
Diabetes	4.6 *	1.1 - 8.1	100	--			--			--		
Hypertension	3.5 *	0.6 - 6.3	<100	--			--			--		
Asthma	10.8	5.6 - 16.0	200	6.7 *	1.0 - 12.4	<100	13.0 *	3.0 - 23.0	<100	13.4 *	3.9 - 22.8	100
Nutrition and Weight												
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	23.0 *	8.8 - 37.1	100	18.7	7.8 - 29.7	<100	50.3	38.8 - 61.7	500
Overweight before pregnancy†	27.4	20.5 - 34.3	600	27.5 *	10.2 - 44.8	100	32.4	16.7 - 48.0	100	26.4	17.3 - 35.5	300
Obese before pregnancy†	28.1	20.3 - 35.8	600	40.9	21.6 - 60.3	200	28.9	13.5 - 44.2	100	25.0	14.2 - 35.9	300
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	28.5 *	9.8 - 47.2	100	21.6 *	8.1 - 35.0	<100	17.2	8.1 - 26.2	200
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	37.7	18.0 - 57.5	200	39.4	23.4 - 55.3	200	38.5	27.4 - 49.6	400
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	37.7	17.3 - 58.0	200	12.9 *	0.5 - 25.3	<100	--		
Nutrition Program Participation												
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	71.3 *	53.3 - 89.4	400	65.6	50.5 - 80.7	300	8.0 *	0.6 - 15.4	<100
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	49.9	30.9 - 68.9	300	12.5 *	2.2 - 22.8	<100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	--			--			--		
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	30.3	13.0 - 47.6	200	20.4 *	7.1 - 33.7	<100	--		
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	27.2 *	9.9 - 44.4	100	6.8 *	0.3 - 13.4	<100	3.5 *	0.8 - 6.2	<100
Hardships and Support during Pregnancy												
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	4.1 *	0.2 - 7.9	<100	--			--		
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	1.7 *	0.1 - 3.3	<100	4.5 *	0.2 - 8.9	<100	--		
Woman or partner lost job	9.4	4.2 - 14.6	200	22.6 *	5.1 - 40.1	100	12.6 *	1.5 - 23.7	<100	--		
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	12.7 *	2.2 - 23.2	<100	16.3 *	3.7 - 28.9	<100	--		
Became separated or divorced	4.2 *	1.0 - 7.3	<100	--			6.5 *	0.6 - 12.4	<100	--		
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	7.5 *	0.8 - 14.1	<100	12.4 *	1.0 - 23.8	<100	--		
Substance Use												
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	20.4 *	3.3 - 37.5	100	12.2 *	2.6 - 21.8	<100	--		
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	--			--			--		
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	17.9 *	0.9 - 34.8	<100	10.4 *	1.1 - 19.7	<100	--		
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	--			25.0 *	10.3 - 39.7	100	14.4	6.4 - 22.3	200
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	--			--			11.7	5.4 - 18.0	100
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	--			10.0 *	1.9 - 18.0	<100	--		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	27.2 *	9.1 - 45.3	100	41.0	24.9 - 57.0	200	8.7 *	2.9 - 14.5	<100
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	20.9 *	6.8 - 35.1	100	14.8 *	2.9 - 26.8	<100	7.7 *	1.7 - 13.7	<100
Postpartum birth control use	85.5	79.4 - 91.7	1,900	--			--			75.3	64.4 - 86.3	800
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	85.3 *	72.7 - 97.8	400	81.1 *	67.6 - 94.5	400	87.4 *	78.8 - 96.0	900
Infant always or often shared bed	32.7	25.3 - 40.1	700	43.7	24.9 - 62.5	200	42.3	26.2 - 58.5	200	25.1	15.9 - 34.2	300
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	--			--			--		
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	65.5	46.2 - 84.8	300	73.5	58.0 - 89.0	300	79.6	70.8 - 88.3	900
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	70.3 *	50.7 - 89.9	300	--			88.8 *	78.5 - 99.1	900
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	56.3	36.4 - 76.1	200	68.6	52.9 - 84.2	300	61.5	49.7 - 73.3	600
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	61.8	39.5 - 84.1	200	84.7 *	72.9 - 96.6	300	83.6 *	72.0 - 95.2	700
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	41.8	20.4 - 63.2	100	54.2	34.6 - 73.9	200	50.4	37.3 - 63.5	400

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MIHA Data Snapshot, Yolo County by Income, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			0-100% Federal Poverty Guideline			101-200% Federal Poverty Guideline			> 200% Federal Poverty Guideline		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	70.2 - 85.4	1,700	68.3 *	48.9 - 87.8	300	85.5 *	75.2 - 95.9	400	80.3	69.6 - 91.0	900
Initiated prenatal care in 1st trimester	93.1 *	88.9 - 97.4	2,000	--			--			--		
Received dental care during pregnancy	58.5	50.4 - 66.6	1,300	61.4	42.7 - 80.1	300	48.4	32.3 - 64.6	200	58.3	46.6 - 70.0	600
Received a Tdap vaccine during pregnancy	78.1	71.1 - 85.1	1,700	53.6	34.4 - 72.8	300	79.4	67.4 - 91.5	400	89.8 *	83.2 - 96.4	1,000
Received a flu shot during pregnancy	75.1	68.0 - 82.2	1,700	61.7	42.6 - 80.9	300	74.3	61.1 - 87.5	300	81.1	72.6 - 89.5	900
Had a postpartum medical visit	92.4 *	87.5 - 97.3	2,100	77.7 *	60.3 - 95.1	400	--			98.2 *	96.4 - 100.0	1,000
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	33.3	25.3 - 41.2	700	68.5 *	50.0 - 87.0	400	29.4	15.4 - 43.4	100	18.1 *	7.2 - 28.9	200
Uninsured	10.1	4.8 - 15.5	200	18.3 *	1.6 - 35.0	<100	21.8 *	7.5 - 36.0	<100	--		
Private	54.5	46.3 - 62.6	1,200	13.2 *	0.4 - 26.0	<100	48.8	32.9 - 64.7	200	76.8	65.9 - 87.8	800
Prenatal insurance												
Medi-Cal	43.2	35.1 - 51.3	1,000	80.9 *	62.4 - 99.4	400	59.2	43.6 - 74.8	300	17.6 *	7.1 - 28.2	200
Uninsured	--			--			--			--		
Private	52.3	44.1 - 60.4	1,200	--			36.2	21.2 - 51.1	200	79.4	68.7 - 90.0	800
Had any gaps in insurance during pregnancy	9.5 *	3.4 - 15.6	200	22.3 *	2.3 - 42.3	100	11.1 *	0.3 - 21.9	<100	--		
Maternal postpartum insurance												
Medi-Cal	43.1	34.8 - 51.4	900	--			53.2	37.0 - 69.4	200	13.0 *	3.1 - 22.9	100
Uninsured	4.6 *	1.5 - 7.6	100	2.6 *	0.1 - 5.2	<100	14.3 *	2.0 - 26.5	<100	--		
Private	51.5	43.3 - 59.6	1,100	--			32.5	17.7 - 47.3	100	83.0 *	72.9 - 93.1	900
Infant health insurance												
Medi-Cal	47.4	39.4 - 55.5	1,000	--			67.3	52.8 - 81.9	300	16.3 *	6.0 - 26.5	200
Uninsured	--			--			--			--		
Private	51.4	43.3 - 59.4	1,100	--			31.2	16.8 - 45.7	100	81.9	71.6 - 92.2	900
Maternal Demographics												
First live birth	38.3	30.5 - 46.2	900	26.0 *	8.7 - 43.2	100	34.9	19.7 - 50.2	200	42.6	31.5 - 53.7	500
Less than high school education (or GED)	11.1	5.2 - 16.9	200	28.0 *	10.7 - 45.3	100	--			--		
Unmarried	29.8	21.6 - 37.9	700	64.4	47.4 - 81.4	300	29.6	16.1 - 43.1	100	13.0 *	3.2 - 22.8	100
Race/Ethnicity												
White	42.7	34.7 - 50.8	900	31.6 *	12.0 - 51.2	200	19.9	9.1 - 30.7	<100	61.0	49.0 - 72.9	600
Hispanic	40.5	32.3 - 48.7	900	55.0	35.6 - 74.4	300	65.8	51.9 - 79.8	300	18.5	8.7 - 28.4	200
Asian/Pacific Islander	13.3	7.3 - 19.2	300	--			11.8 *	2.8 - 20.7	<100	16.7 *	6.6 - 26.8	200
Black	3.4 *	0.8 - 5.9	<100	--			--			--		
Born outside the U.S.	33.7	26.1 - 41.2	800	28.8	13.4 - 44.3	100	53.6	37.9 - 69.3	200	23.9	14.4 - 33.4	300
Speaks non-English language at home	29.1	21.8 - 36.5	600	24.6	10.6 - 38.5	100	44.2	28.1 - 60.2	200	21.3	10.6 - 32.1	200
Lives in a high poverty neighborhood†	15.3	10.2 - 20.5	300	24.9	10.3 - 39.5	100	15.5 *	5.1 - 25.9	<100	12.3	5.6 - 19.1	100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%		95% CI	N	%		95% CI	N	%		95% CI	N	%		95% CI	N	%		95% CI	N
Total	100			2,200	44.5		36.4 - 52.6	900	26.6		19.5 - 33.7	600	13.6		8.1 - 19.1	300	15.3		10.2 - 20.5	300
Health Status before Pregnancy																				
In good to excellent health	90.7	*	85.2 - 96.2	2,000	88.1	*	79.4 - 96.8	800	--				--				--			
Chronic conditions																				
Diabetes	4.6	*	1.1 - 8.1	100	--				--				--				--			
Hypertension	3.5	*	0.6 - 6.3	<100	--				--				--				--			
Asthma	10.8		5.6 - 16.0	200	13.5	*	2.7 - 24.2	100	8.6	*	2.7 - 14.5	<100	--				7.9	*	0.5 - 15.4	<100
Nutrition and Weight																				
Daily folic acid use, month before pregnancy	37.3		29.8 - 44.7	800	43.5		31.2 - 55.9	400	37.1		22.8 - 51.4	200	27.0	*	8.8 - 45.2	<100	40.8		23.4 - 58.2	100
Overweight before pregnancy†	27.4		20.5 - 34.3	600	25.9		15.0 - 36.7	200	31.3		17.9 - 44.6	200	23.2	*	5.6 - 40.9	<100	30.7		13.2 - 48.3	<100
Obese before pregnancy†	28.1		20.3 - 35.8	600	23.2		11.4 - 35.1	200	43.1		26.9 - 59.2	200	22.4	*	5.2 - 39.6	<100	21.4	*	8.1 - 34.7	<100
Inadequate weight gain during pregnancy†	22.2		15.1 - 29.3	500	11.3	*	4.4 - 18.3	100	33.6		17.8 - 49.5	200	36.2	*	14.2 - 58.3	100	12.3	*	2.6 - 22.1	<100
Excessive weight gain during pregnancy†	39.7		31.7 - 47.7	800	39.5		26.6 - 52.3	400	35.7		20.5 - 51.0	200	43.5		21.7 - 65.3	100	44.4		26.2 - 62.7	100
Food insecurity during pregnancy	14.3		7.2 - 21.4	300	10.6	*	1.2 - 20.0	<100	--				--				11.8	*	1.9 - 21.7	<100
Nutrition Program Participation																				
Participated in WIC during pregnancy	38.1		30.0 - 46.2	800	28.7		16.1 - 41.3	300	44.6		29.0 - 60.1	200	43.8		21.8 - 65.7	100	38.3		20.8 - 55.8	100
Received CalFresh (food stamps) during pregnancy	17.3		10.7 - 23.8	400	10.8	*	3.5 - 18.1	100	--				35.5	*	13.8 - 57.2	100	20.2	*	7.3 - 33.0	<100
Intimate Partner Violence (IPV) and Depressive Symptoms																				
Physical, psychological or sexual IPV during pregnancy†‡	2.5	*	0.7 - 4.3	<100	--				--				--				--			
Prenatal depressive symptoms†	14.5		8.5 - 20.6	300	9.0	*	2.7 - 15.3	<100	15.5	*	2.8 - 28.1	<100	--				18.9	*	4.2 - 33.7	<100
Postpartum depressive symptoms†	9.6		4.8 - 14.3	200	4.1	*	1.2 - 7.0	<100	10.5	*	2.3 - 18.6	<100	--				15.5	*	1.2 - 29.9	<100
Hardships and Support during Pregnancy																				
Homeless or did not have a regular place to sleep	1.9	*	0.5 - 3.3	<100	--				--				--				6.9	*	0.4 - 13.4	<100
Moved due to problems paying rent or mortgage	1.9	*	0.5 - 3.3	<100	--				--				--				--			
Woman or partner lost job	9.4		4.2 - 14.6	200	2.6	*	0.4 - 4.8	<100	--				--				14.9	*	3.6 - 26.1	<100
Woman or partner had pay or hours cut back	9.0		4.5 - 13.6	200	--				11.2	*	0.9 - 21.4	<100	18.4	*	1.1 - 35.6	<100	12.0	*	1.3 - 22.7	<100
Became separated or divorced	4.2	*	1.0 - 7.3	<100	--				--				--				--			
Had no practical or emotional support	6.2	*	2.2 - 10.3	100	5.5	*	0.4 - 10.6	<100	--				--				--			
Substance Use																				
Any smoking, 3 months before pregnancy	9.2		4.0 - 14.4	200	--				5.5	*	0.1 - 11.0	<100	--				10.3	*	1.4 - 19.1	<100
Any smoking, 3rd trimester	5.4	*	0.8 - 9.9	100	--				--				--				--			
Any smoking, postpartum	7.6	*	2.5 - 12.7	200	--				--				--				--			
Any binge drinking, 3 months before pregnancy	14.7		9.2 - 20.2	300	16.0		7.4 - 24.7	100	15.1	*	4.2 - 26.0	<100	20.1	*	3.2 - 37.1	<100	--			
Any alcohol use, 3rd trimester	9.8		5.4 - 14.1	200	8.9	*	2.5 - 15.4	<100	7.3	*	0.5 - 14.1	<100	23.9	*	4.2 - 43.7	<100	7.8	*	1.1 - 14.5	<100
Any cannabis use during pregnancy	4.2	*	1.6 - 6.9	<100	--				--				--				--			
Pregnancy Intention and Family Planning																				
Mistimed or unwanted pregnancy	20.7		13.9 - 27.5	500	17.9		8.5 - 27.3	200	18.4	*	7.3 - 29.4	100	30.6	*	8.9 - 52.2	<100	9.6	*	1.5 - 17.8	<100
Unsure of pregnancy intentions	11.7		6.7 - 16.7	300	14.0	*	5.2 - 22.8	100	--				--				21.5	*	5.2 - 37.8	<100
Postpartum birth control use	85.5		79.4 - 91.7	1,900	84.8		76.3 - 93.3	800	79.1	*	62.9 - 95.4	400	--				89.5	*	79.7 - 99.2	300
Infant Sleep and Breastfeeding																				
Placed infant on back to sleep	83.6		77.3 - 89.9	1,800	86.0	*	77.4 - 94.7	800	76.6	*	61.5 - 91.8	400	--				85.7	*	74.5 - 96.8	300
Infant always or often shared bed	32.7		25.3 - 40.1	700	24.8		14.8 - 34.8	200	42.5		27.1 - 57.8	200	39.1		17.7 - 60.5	100	29.4		14.6 - 44.1	<100
Intended to breastfeed, before birth	94.8	*	91.6 - 98.1	2,100	93.1	*	86.7 - 99.6	900	--				--				--			
Intended to breastfeed exclusively, before birth	73.3		66.0 - 80.6	1,600	66.8		54.3 - 79.2	600	73.0		58.6 - 87.3	400	--				83.3	*	72.6 - 94.1	300
Breastfeeding practices																				
Any breastfeeding, 1 month after delivery	86.8		79.9 - 93.7	1,800	84.7	*	72.6 - 96.8	800	--				--				90.7	*	82.1 - 99.3	300
Exclusive breastfeeding, 1 month after delivery	63.4		55.2 - 71.7	1,300	60.7		47.3 - 74.0	500	64.5		48.9 - 80.1	400	82.0	*	66.7 - 97.3	200	54.8		36.0 - 73.5	200
Any breastfeeding, 3 months after delivery	78.5		70.1 - 86.8	1,300	71.4		56.0 - 86.8	500	83.1	*	71.1 - 95.1	300	--				79.2	*	64.0 - 94.4	200
Exclusive breastfeeding, 3 months after delivery	49.8		40.4 - 59.2	800	41.9		27.6 - 56.3	300	59.0		42.6 - 75.3	200	60.2	*	35.4 - 85.1	100	41.5		21.5 - 61.5	<100

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Neighborhood Poverty, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				Low: <10% of Residents Below Poverty†				Moderate-Low: 10-19% of Residents Below Poverty†				Moderate-High: 20-29% of Residents Below Poverty†				High: ≥30% of Residents Below Poverty†			
	%		95% CI	N	%		95% CI	N	%		95% CI	N	%		95% CI	N	%		95% CI	N
Healthcare Utilization																				
Had a usual source of pre-pregnancy care	77.8		70.2 - 85.4	1,700	85.8	*	76.8 - 94.8	800	72.2		56.0 - 88.4	400	79.1	*	59.7 - 98.4	200	80.4	*	67.9 - 93.0	300
Initiated prenatal care in 1st trimester	93.1	*	88.9 - 97.4	2,000	--				--				--				--			
Received dental care during pregnancy	58.5		50.4 - 66.6	1,300	60.6		48.0 - 73.3	600	58.6		43.2 - 74.1	300	57.2		35.8 - 78.5	200	56.0		38.5 - 73.6	200
Received a Tdap vaccine during pregnancy	78.1		71.1 - 85.1	1,700	82.2		72.5 - 91.8	800	83.6	*	73.0 - 94.1	500	74.2	*	55.4 - 93.0	200	80.4	*	68.4 - 92.5	300
Received a flu shot during pregnancy	75.1		68.0 - 82.2	1,700	82.6		74.2 - 90.9	800	80.8	*	68.9 - 92.7	500	73.2	*	53.6 - 92.7	200	61.4		44.6 - 78.3	200
Had a postpartum medical visit	92.4	*	87.5 - 97.3	2,100	--				--				--				91.3	*	83.5 - 99.1	300
Health Insurance Coverage																				
Pre-pregnancy insurance																				
Medi-Cal	33.3		25.3 - 41.2	700	26.1		14.2 - 38.0	200	40.7		24.6 - 56.8	200	36.6		15.1 - 58.1	100	31.5		15.4 - 47.6	100
Uninsured	10.1		4.8 - 15.5	200	6.4	*	0.6 - 12.3	<100	11.0	*	1.8 - 20.3	<100	--				12.8	*	1.7 - 23.8	<100
Private	54.5		46.3 - 62.6	1,200	66.1		53.7 - 78.4	600	45.3		30.2 - 60.4	300	58.8		37.2 - 80.5	200	53.9		36.4 - 71.5	200
Prenatal insurance																				
Medi-Cal	43.2		35.1 - 51.3	1,000	30.1		18.1 - 42.2	300	58.3		43.6 - 73.0	300	46.0		23.8 - 68.2	100	44.7		27.0 - 62.4	100
Uninsured	--				--				--				--				--			
Private	52.3		44.1 - 60.4	1,200	66.1		53.8 - 78.5	600	41.1		26.4 - 55.7	200	49.3		27.2 - 71.5	100	54.1		36.4 - 71.8	200
Had any gaps in insurance during pregnancy	9.5	*	3.4 - 15.6	200	9.4	*	0.2 - 18.6	<100	--				--				--			
Maternal postpartum insurance																				
Medi-Cal	43.1		34.8 - 51.4	900	28.4		16.5 - 40.4	300	52.9		37.4 - 68.4	300	55.5		34.1 - 77.0	200	41.2		23.7 - 58.8	100
Uninsured	4.6	*	1.5 - 7.6	100	--				4.1	*	0.9 - 7.3	<100	--				--			
Private	51.5		43.3 - 59.6	1,100	65.6		53.2 - 78.0	600	42.3		27.3 - 57.3	200	40.7		19.8 - 61.7	100	55.2		37.5 - 73.0	200
Infant health insurance																				
Medi-Cal	47.4		39.4 - 55.5	1,000	35.2		22.7 - 47.7	300	58.9		44.2 - 73.6	300	51.9		29.5 - 74.3	100	46.5		28.9 - 64.0	100
Uninsured	--				--				--				--				--			
Private	51.4		43.3 - 59.4	1,100	64.6		52.1 - 77.1	600	40.4		25.8 - 55.0	200	41.7		20.0 - 63.3	100	52.4		34.8 - 70.0	200
Maternal Demographics																				
Age																				
15-19	3.6	*	0.4 - 6.7	<100	--				--				--				--			
20-34	72.9		66.0 - 79.9	1,600	75.8		65.5 - 86.1	700	71.4		56.9 - 85.9	400	59.9		38.8 - 81.0	200	68.3		51.1 - 85.4	200
35+	23.5		17.0 - 30.0	500	17.5		9.1 - 25.8	200	27.9		13.5 - 42.4	200	39.2		18.1 - 60.3	100	28.7	*	11.7 - 45.7	<100
First live birth	38.3		30.5 - 46.2	900	43.1		30.5 - 55.7	400	29.0		15.9 - 42.2	200	47.6		25.5 - 69.7	100	47.4		29.6 - 65.1	200
Less than high school education (or GED)	11.1		5.2 - 16.9	200	--				15.3	*	2.5 - 28.1	<100	--				--			
Unmarried	29.8		21.6 - 37.9	700	22.3		11.0 - 33.6	200	29.1		13.2 - 45.0	200	45.0		22.8 - 67.2	100	23.8		10.3 - 37.4	<100
Race/Ethnicity																				
White	42.7		34.7 - 50.8	900	44.2		31.5 - 57.0	400	38.3		23.9 - 52.8	200	43.0		21.5 - 64.5	100	46.9		29.1 - 64.7	100
Hispanic	40.5		32.3 - 48.7	900	28.2		16.6 - 39.8	200	58.0		43.2 - 72.8	300	55.1		33.5 - 76.7	200	23.7	*	9.0 - 38.3	<100
Asian/Pacific Islander	13.3		7.3 - 19.2	300	22.3		10.5 - 34.1	200	--				--				23.6	*	6.6 - 40.5	<100
Black	3.4	*	0.8 - 5.9	<100	--				--				--				--			
Born outside the U.S.	33.7		26.1 - 41.2	800	23.9		13.6 - 34.3	200	45.0		29.6 - 60.4	300	36.3	*	13.8 - 58.7	100	45.5		27.8 - 63.2	100
Speaks non-English language at home	29.1		21.8 - 36.5	600	23.1		11.7 - 34.6	200	42.4		27.0 - 57.8	200	24.3	*	6.5 - 42.0	<100	31.9		14.8 - 49.0	100
Income as a percent of the Federal Poverty Guideline																				
0-100%	25.1		17.1 - 33.1	500	20.3		8.5 - 32.0	200	11.3	*	3.5 - 19.1	<100	34.3	*	12.7 - 56.0	<100	34.7		17.1 - 52.3	100
101-200%	22.4		15.8 - 28.9	500	16.7		7.6 - 25.8	100	30.9		15.8 - 46.0	100	25.1	*	5.8 - 44.5	<100	21.7	*	7.8 - 35.6	<100
> 200%	52.5		44.0 - 61.0	1,100	63.0		50.1 - 76.0	600	57.8		41.6 - 74.0	300	40.5		18.7 - 62.3	<100	43.6		25.2 - 62.0	100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator or subgroup and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. Categories of neighborhood poverty changed and are not comparable to prior years. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			Medi-Cal			Private		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	43.2	35.1 - 51.3	1,000	52.3	44.1 - 60.4	1,200
Health Status before Pregnancy									
In good to excellent health	90.7 *	85.2 - 96.2	2,000	84.0	74.6 - 93.3	800	--		
Chronic conditions									
Diabetes	4.6 *	1.1 - 8.1	100	--			--		
Hypertension	3.5 *	0.6 - 6.3	<100	--			--		
Asthma	10.8	5.6 - 16.0	200	11.5 *	4.4 - 18.6	100	11.3 *	3.2 - 19.3	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	21.0	11.3 - 30.7	200	53.9	43.4 - 64.5	600
Overweight before pregnancy†	27.4	20.5 - 34.3	600	22.9	12.6 - 33.1	200	32.0	22.4 - 41.6	400
Obese before pregnancy†	28.1	20.3 - 35.8	600	41.6	28.1 - 55.0	400	18.4	10.6 - 26.2	200
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	33.4	20.3 - 46.5	300	13.2	6.9 - 19.4	100
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	38.4	25.4 - 51.4	400	38.8	28.6 - 49.1	400
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	24.3	11.8 - 36.8	200	--		
Nutrition Program Participation									
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	70.0	58.3 - 81.7	700	13.4 *	5.5 - 21.4	100
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	29.5	18.6 - 40.5	300	--		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	5.4 *	0.7 - 10.1	<100	--		
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	25.4	13.6 - 37.1	200	6.8 *	1.8 - 11.9	<100
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	16.8 *	6.7 - 26.9	200	4.4 *	1.5 - 7.2	<100
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	4.2 *	0.9 - 7.5	<100	--		
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	3.4 *	0.5 - 6.3	<100	--		
Woman or partner lost job	9.4	4.2 - 14.6	200	11.7 *	4.2 - 19.2	100	4.6 *	1.0 - 8.3	<100
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	13.5 *	4.7 - 22.4	100	6.1 *	1.5 - 10.8	<100
Became separated or divorced	4.2 *	1.0 - 7.3	<100	5.7 *	0.6 - 10.7	<100	--		
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	9.4 *	2.0 - 16.7	<100	--		
Substance Use									
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	15.6	7.2 - 23.9	100	--		
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	7.3 *	1.4 - 13.1	<100	--		
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	12.4 *	4.4 - 20.3	100	--		
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	13.7 *	5.2 - 22.2	100	15.8	8.2 - 23.5	200
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	8.6 *	1.7 - 15.5	<100	11.5	5.4 - 17.5	100
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	7.2 *	2.0 - 12.5	<100	--		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	26.6	15.6 - 37.6	300	12.6	6.1 - 19.1	100
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	15.1	6.6 - 23.7	100	9.5 *	3.0 - 16.0	100
Postpartum birth control use	85.5	79.4 - 91.7	1,900	89.5 *	79.3 - 99.7	800	81.3	73.2 - 89.5	900
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	79.3	68.3 - 90.4	700	87.6	80.4 - 94.8	1,000
Infant always or often shared bed	32.7	25.3 - 40.1	700	40.2	27.5 - 52.8	400	26.8	18.1 - 35.6	300
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	97.1 *	94.9 - 99.4	900	92.7 *	87.1 - 98.3	1,100
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	66.1	53.5 - 78.6	600	78.6	70.0 - 87.2	900
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	80.8 *	68.8 - 92.8	700	91.1 *	82.8 - 99.4	1,100
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	61.6	48.2 - 74.9	600	63.7	53.0 - 74.4	700
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	74.9	62.1 - 87.6	500	80.2 *	68.5 - 91.9	700
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	55.0	40.6 - 69.4	400	44.7	32.3 - 57.1	400

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Prenatal Health Insurance, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				Medi-Cal				Private			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	70.2	85.4	1,700	65.2	52.1	78.3	600	92.4 *	87.3	97.5	1,100
Initiated prenatal care in 1st trimester	93.1 *	88.9	97.4	2,000	86.1 *	76.8	95.4	800	--			
Received dental care during pregnancy	58.5	50.4	66.6	1,300	55.7	43.1	68.4	500	63.4	52.9	73.9	700
Received a Tdap vaccine during pregnancy	78.1	71.1	85.1	1,700	74.3	63.5	85.1	700	84.8	77.3	92.4	1,000
Received a flu shot during pregnancy	75.1	68.0	82.2	1,700	74.2	63.5	84.9	700	80.7	72.7	88.7	900
Had a postpartum medical visit	92.4 *	87.5	97.3	2,100	89.9	84.1	95.7	900	--			
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	33.3	25.3	41.2	700	74.9	64.7	85.1	700	--			
Uninsured	10.1	4.8	15.5	200	16.8	8.2	25.5	200	--			
Private	54.5	46.3	62.6	1,200	6.5 *	1.4	11.7	<100	--			
Had any gaps in insurance during pregnancy	9.5 *	3.4	15.6	200	13.6 *	3.5	23.6	100	--			
Maternal postpartum insurance												
Medi-Cal	43.1	34.8	51.4	900	85.0	76.5	93.4	800	7.2 *	1.0	13.4	<100
Uninsured	4.6 *	1.5	7.6	100	9.5 *	2.8	16.1	<100	--			
Private	51.5	43.3	59.6	1,100	--				92.8 *	86.6	99.0	1,100
Infant health insurance												
Medi-Cal	47.4	39.4	55.5	1,000	93.0 *	87.0	99.0	900	9.9 *	3.0	16.7	100
Uninsured	--				--				--			
Private	51.4	43.3	59.4	1,100	7.0 *	1.0	13.0	<100	89.6 *	82.7	96.5	1,000
Maternal Demographics												
Age												
15-19	3.6 *	0.4	6.7	<100	--				--			
20-34	72.9	66.0	79.9	1,600	74.1	63.0	85.2	700	69.8	60.4	79.2	800
35+	23.5	17.0	30.0	500	20.8	10.5	31.1	200	27.6	18.6	36.6	300
First live birth	38.3	30.5	46.2	900	32.4	20.1	44.6	300	43.1	32.9	53.4	500
Less than high school education (or GED)	11.1	5.2	16.9	200	18.7	8.8	28.6	200	--			
Unmarried	29.8	21.6	37.9	700	50.9	38.2	63.7	500	10.1 *	3.7	16.5	100
Race/Ethnicity												
White	42.7	34.7	50.8	900	22.6	11.8	33.5	200	56.1	45.4	66.9	600
Hispanic	40.5	32.3	48.7	900	65.0	52.9	77.0	600	22.3	13.2	31.3	300
Asian/Pacific Islander	13.3	7.3	19.2	300	7.3 *	1.4	13.2	<100	19.0	9.5	28.6	200
Black	3.4 *	0.8	5.9	<100	4.9 *	1.0	8.8	<100	--			
Born outside the U.S.	33.7	26.1	41.2	800	39.9	27.6	52.1	400	29.4	19.6	39.1	300
Speaks non-English language at home	29.1	21.8	36.5	600	37.0	25.1	48.8	400	22.2	12.6	31.8	300
Lives in a high poverty neighborhood†	15.3	10.2	20.5	300	16.1	8.1	24.2	100	14.8	7.8	21.8	200
Income as a percent of the Federal Poverty Guideline												
0-100%	25.1	17.1	33.1	500	47.5	34.1	60.9	400	--			
101-200%	22.4	15.8	28.9	500	30.9	19.3	42.5	300	15.5	8.3	22.8	200
> 200%	52.5	44.0	61.0	1,100	21.6	9.0	34.2	200	79.8	70.9	88.7	800

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Yolo County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	40.5	32.3 - 48.7	900	3.4 *	0.8 - 5.9	<100	42.7	34.7 - 50.8	900	13.3	7.3 - 19.2	300
Health Status before Pregnancy															
In good to excellent health	90.7 *	85.2 - 96.2	2,000	89.8 *	81.6 - 98.0	800	--			--			--		
Chronic conditions															
Diabetes	4.6 *	1.1 - 8.1	100	--			--			--			--		
Hypertension	3.5 *	0.6 - 6.3	<100	--			--			--			--		
Asthma	10.8	5.6 - 16.0	200	6.3 *	1.1 - 11.6	<100	--			12.5	5.5 - 19.5	100	--		
Nutrition and Weight															
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	24.6	13.9 - 35.3	200	--			49.3	37.4 - 61.2	500	48.4	24.3 - 72.4	100
Overweight before pregnancy†	27.4	20.5 - 34.3	600	32.7	20.4 - 44.9	300	--			27.0	17.0 - 37.0	200	18.3 *	0.5 - 36.1	<100
Obese before pregnancy†	28.1	20.3 - 35.8	600	40.4	26.6 - 54.2	300	--			22.5	11.4 - 33.6	200	--		
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	37.0	23.2 - 50.8	300	--			13.5	5.9 - 21.0	100	--		
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	35.1	21.9 - 48.3	300	--			49.2	37.7 - 60.8	400	--		
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	16.6 *	4.8 - 28.4	100	--			15.0 *	2.8 - 27.1	100	--		
Nutrition Program Participation															
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	64.0	51.0 - 77.0	600	42.5 *	7.3 - 77.6	<100	15.0 *	5.0 - 25.0	100	25.9 *	5.8 - 46.0	<100
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	23.8	11.9 - 35.6	200	40.3 *	5.2 - 75.4	<100	14.2 *	4.1 - 24.3	100	--		
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	3.3 *	0.3 - 6.2	<100	--			--			--		
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	17.3 *	5.3 - 29.2	200	40.3 *	5.2 - 75.4	<100	11.5 *	4.6 - 18.4	100	--		
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	10.0 *	1.1 - 18.8	<100	--			7.5 *	1.8 - 13.3	<100	--		
Hardships and Support during Pregnancy															
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	--			--			--			--		
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	--			--			--			--		
Woman or partner lost job	9.4	4.2 - 14.6	200	7.0 *	0.9 - 13.2	<100	--			12.5 *	2.3 - 22.7	100	--		
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	8.4 *	1.2 - 15.6	<100	--			9.4 *	1.9 - 16.9	<100	--		
Became separated or divorced	4.2 *	1.0 - 7.3	<100	--			--			--			--		
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	12.6 *	3.4 - 21.9	100	--			--			--		
Often experienced racism over her lifetime	8.4 *	3.0 - 13.8	200	2.7 *	0.4 - 4.9	<100	--			9.2 *	0.3 - 18.1	<100	--		
Substance Use															
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	4.7 *	0.4 - 9.0	<100	--			12.8 *	2.6 - 23.0	100	--		
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	--			--			10.4 *	0.4 - 20.3	<100	--		
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	--			--			11.8 *	1.6 - 21.9	100	--		
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	8.5 *	1.2 - 15.9	<100	--			22.1	12.5 - 31.7	200	--		
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	--			--			18.7	10.0 - 27.5	200	--		
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	--			--			6.3 *	1.0 - 11.6	<100	--		
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	25.6	13.9 - 37.3	200	--			16.1 *	5.8 - 26.4	100	18.2 *	2.2 - 34.3	<100
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	12.6 *	3.9 - 21.2	100	--			6.8 *	1.7 - 11.9	<100	--		
Postpartum birth control use	85.5	79.4 - 91.7	1,900	85.0 *	73.4 - 96.5	700	--			85.2	76.8 - 93.6	800	81.1 *	63.4 - 98.8	200
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	72.5	59.8 - 85.3	600	51.5 *	12.7 - 90.3	<100	93.3 *	88.6 - 98.1	800	--		
Infant always or often shared bed	32.7	25.3 - 40.1	700	47.4	33.9 - 60.9	400	--			17.6	10.2 - 25.0	200	42.6	19.6 - 65.6	100
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	--			--			95.4 *	91.0 - 99.8	800	--		
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	64.8	51.8 - 77.8	600	64.4 *	29.9 - 99.0	<100	82.1	72.0 - 92.3	700	69.7 *	49.4 - 90.1	200
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	85.0 *	73.9 - 96.0	700	--			90.7 *	81.6 - 99.8	800	--		
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	64.3	50.8 - 77.9	500	--			64.5	52.6 - 76.5	500	47.2	22.4 - 72.0	100
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	82.6 *	72.1 - 93.1	600	--			78.3 *	64.8 - 91.7	500	--		
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	51.5	36.4 - 66.5	300	--			47.3	33.4 - 61.3	300	38.6 *	12.2 - 65.0	<100

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MIHA Data Snapshot, Yolo County by Race/Ethnicity, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			Hispanic			Black			White			Asian/Pacific Islander		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Healthcare Utilization															
Had a usual source of pre-pregnancy care	77.8	70.2 - 85.4	1,700	71.9	57.9 - 85.8	600	--			79.6	68.9 - 90.3	700	--		
Initiated prenatal care in 1st trimester	93.1 *	88.9 - 97.4	2,000	84.9 *	74.8 - 94.9	700	--			--			--		
Received dental care during pregnancy	58.5	50.4 - 66.6	1,300	57.2	44.0 - 70.5	500	--			64.0	52.1 - 75.9	600	47.5	23.6 - 71.4	100
Received a Tdap vaccine during pregnancy	78.1	71.1 - 85.1	1,700	77.0	65.2 - 88.7	700	--			83.0 *	72.3 - 93.7	800	81.2 *	66.8 - 95.7	200
Received a flu shot during pregnancy	75.1	68.0 - 82.2	1,700	79.6	68.8 - 90.5	700	35.1 *	2.3 - 67.9	<100	74.2	62.8 - 85.7	700	77.9 *	62.2 - 93.7	200
Had a postpartum medical visit	92.4 *	87.5 - 97.3	2,100	90.5 *	83.1 - 97.9	800	--			--			--		
Health Insurance Coverage															
Pre-pregnancy insurance															
Medi-Cal	33.3	25.3 - 41.2	700	48.0	34.4 - 61.6	400	42.3 *	6.2 - 78.4	<100	23.6	12.6 - 34.6	200	--		
Uninsured	10.1	4.8 - 15.5	200	14.9 *	5.9 - 23.8	100	--			--			--		
Private	54.5	46.3 - 62.6	1,200	34.8	22.4 - 47.2	300	--			67.3	54.8 - 79.7	600	75.7 *	57.4 - 93.9	200
Prenatal insurance															
Medi-Cal	43.2	35.1 - 51.3	1,000	68.6	56.6 - 80.6	600	--			22.8	12.2 - 33.5	200	23.6 *	5.5 - 41.8	<100
Uninsured	--			--			--			--			--		
Private	52.3	44.1 - 60.4	1,200	29.3	17.5 - 41.1	300	--			70.5	58.1 - 82.8	600	76.4 *	58.2 - 94.5	200
Had any gaps in insurance during pregnancy	9.5 *	3.4 - 15.6	200	7.8 *	0.9 - 14.6	<100	--			--			--		
Maternal postpartum insurance															
Medi-Cal	43.1	34.8 - 51.4	900	66.0	54.0 - 78.0	600	53.2 *	8.1 - 98.3	<100	24.1	12.0 - 36.1	200	25.4 *	6.9 - 44.0	<100
Uninsured	4.6 *	1.5 - 7.6	100	9.9 *	2.5 - 17.2	<100	--			--			--		
Private	51.5	43.3 - 59.6	1,100	23.7	13.4 - 33.9	200	--			73.3	61.3 - 85.3	700	73.9 *	55.2 - 92.5	200
Infant health insurance															
Medi-Cal	47.4	39.4 - 55.5	1,000	78.0	68.0 - 88.0	700	--			18.6	8.7 - 28.5	200	28.3 *	8.8 - 47.7	<100
Uninsured	--			--			--			--			--		
Private	51.4	43.3 - 59.4	1,100	20.8	11.0 - 30.7	200	--			79.5	69.5 - 89.5	700	71.7 *	52.3 - 91.2	200
Maternal Demographics															
Age															
15-19	3.6 *	0.4 - 6.7	<100	--			--			--			--		
20-34	72.9	66.0 - 79.9	1,600	66.4	53.8 - 79.0	600	--			75.7	66.0 - 85.5	700	78.2 *	60.6 - 95.8	200
35+	23.5	17.0 - 30.0	500	26.7	15.2 - 38.2	200	--			23.4	13.7 - 33.1	200	21.8 *	4.2 - 39.4	<100
First live birth	38.3	30.5 - 46.2	900	23.4	11.9 - 34.9	200	--			52.1	40.2 - 64.0	500	36.2 *	14.7 - 57.8	100
Less than high school education (or GED)	11.1	5.2 - 16.9	200	19.6	8.6 - 30.5	200	--			--			--		
Unmarried	29.8	21.6 - 37.9	700	41.0	27.0 - 55.1	300	--			23.4	11.4 - 35.4	200	14.1 *	1.2 - 27.0	<100
Born outside the U.S.	33.7	26.1 - 41.2	800	51.9	38.4 - 65.4	500	--			14.3	6.2 - 22.3	100	47.2	23.6 - 70.9	100
Speaks non-English language at home	29.1	21.8 - 36.5	600	43.6	30.6 - 56.6	400	--			8.0 *	1.7 - 14.2	<100	57.6	34.9 - 80.3	200
Lives in a high poverty neighborhood†	15.3	10.2 - 20.5	300	9.3 *	3.0 - 15.7	<100	--			17.0	9.0 - 25.0	100	26.1 *	6.1 - 46.1	<100
Income as a percent of the Federal Poverty Guideline															
0-100%	25.1	17.1 - 33.1	500	37.1	22.9 - 51.3	300	--			18.3 *	5.8 - 30.9	200	--		
101-200%	22.4	15.8 - 28.9	500	37.5	23.7 - 51.2	300	--			9.7	4.3 - 15.2	<100	18.9 *	3.9 - 34.0	<100
> 200%	52.5	44.0 - 61.0	1,100	25.4	12.4 - 38.5	200	--			71.9	59.5 - 84.4	600	64.9 *	43.1 - 86.7	200

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or could not be calculated, fewer than 5 women reported, or the weighted population denominator for the column is less than 100 women.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2016-2018 were combined, resulting in a statewide sample size of 19,193. The sample size of Yolo County was 276. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2016-2018. The population estimate (N) is a three-year average. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2016-2018. California Department of Public Health; 2022.

MIHA Data Snapshot, Yolo County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County			First Live Birth			Second Live Birth or More		
	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total	100		2,200	38.3	30.5 - 46.2	900	61.7	53.8 - 69.5	1,400
Health Status before Pregnancy									
In good to excellent health	90.7 *	85.2 - 96.2	2,000	--			88.8 *	80.9 - 96.7	1,200
Chronic conditions									
Diabetes	4.6 *	1.1 - 8.1	100	--			7.5 *	1.8 - 13.2	100
Hypertension	3.5 *	0.6 - 6.3	<100	--			5.7 *	1.1 - 10.3	<100
Asthma	10.8	5.6 - 16.0	200	10.8 *	3.7 - 17.9	<100	10.9 *	3.6 - 18.1	100
Nutrition and Weight									
Daily folic acid use, month before pregnancy	37.3	29.8 - 44.7	800	46.8	34.2 - 59.5	400	31.4	22.5 - 40.2	400
Overweight before pregnancy†	27.4	20.5 - 34.3	600	24.9	13.9 - 35.9	200	29.0	20.1 - 37.9	400
Obese before pregnancy†	28.1	20.3 - 35.8	600	16.9 *	6.0 - 27.9	100	35.2	25.0 - 45.5	500
Inadequate weight gain during pregnancy†	22.2	15.1 - 29.3	500	13.3	5.5 - 21.1	100	28.2	18.0 - 38.3	400
Excessive weight gain during pregnancy†	39.7	31.7 - 47.7	800	52.9	40.1 - 65.8	400	30.9	21.5 - 40.3	400
Food insecurity during pregnancy	14.3	7.2 - 21.4	300	9.9 *	0.4 - 19.5	<100	17.0	7.3 - 26.8	200
Nutrition Program Participation									
Participated in WIC during pregnancy	38.1	30.0 - 46.2	800	32.2	19.0 - 45.4	300	41.7	31.4 - 52.0	600
Received CalFresh (food stamps) during pregnancy	17.3	10.7 - 23.8	400	7.1 *	0.4 - 13.9	<100	23.6	14.2 - 33.0	300
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical, psychological or sexual IPV during pregnancy†‡	2.5 *	0.7 - 4.3	<100	--			2.1 *	0.3 - 3.9	<100
Prenatal depressive symptoms†	14.5	8.5 - 20.6	300	11.2 *	4.0 - 18.4	<100	16.7	8.1 - 25.2	200
Postpartum depressive symptoms†	9.6	4.8 - 14.3	200	4.9 *	0.2 - 9.5	<100	12.5	5.5 - 19.6	200
Hardships and Support during Pregnancy									
Homeless or did not have a regular place to sleep	1.9 *	0.5 - 3.3	<100	--			2.6 *	0.5 - 4.8	<100
Moved due to problems paying rent or mortgage	1.9 *	0.5 - 3.3	<100	--			2.7 *	0.5 - 4.9	<100
Woman or partner lost job	9.4	4.2 - 14.6	200	5.7 *	1.2 - 10.2	<100	11.8 *	3.9 - 19.7	200
Woman or partner had pay or hours cut back	9.0	4.5 - 13.6	200	--			10.3	4.3 - 16.2	100
Became separated or divorced	4.2 *	1.0 - 7.3	<100	--			4.9 *	0.3 - 9.6	<100
Had no practical or emotional support	6.2 *	2.2 - 10.3	100	--			8.1 *	2.1 - 14.1	100
Substance Use									
Any smoking, 3 months before pregnancy	9.2	4.0 - 14.4	200	8.5 *	1.4 - 15.5	<100	9.6 *	2.4 - 16.8	100
Any smoking, 3rd trimester	5.4 *	0.8 - 9.9	100	--			7.2 *	0.2 - 14.3	<100
Any smoking, postpartum	7.6 *	2.5 - 12.7	200	7.6 *	0.8 - 14.5	<100	7.5 *	0.5 - 14.6	100
Any binge drinking, 3 months before pregnancy	14.7	9.2 - 20.2	300	26.6	15.5 - 37.7	200	7.1 *	2.1 - 12.2	<100
Any alcohol use, 3rd trimester	9.8	5.4 - 14.1	200	10.1 *	3.0 - 17.1	<100	9.6	4.0 - 15.2	100
Any cannabis use during pregnancy	4.2 *	1.6 - 6.9	<100	--			5.9 *	1.8 - 10.0	<100
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	20.7	13.9 - 27.5	500	12.4 *	4.1 - 20.7	100	25.7	16.2 - 35.1	400
Unsure of pregnancy intentions	11.7	6.7 - 16.7	300	12.1 *	4.2 - 20.1	100	11.4	4.9 - 18.0	200
Postpartum birth control use	85.5	79.4 - 91.7	1,900	88.2 *	80.5 - 95.9	700	83.9	75.3 - 92.5	1,100
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	83.6	77.3 - 89.9	1,800	88.0 *	78.9 - 97.2	800	80.8	72.3 - 89.2	1,100
Infant always or often shared bed	32.7	25.3 - 40.1	700	23.9	13.6 - 34.2	200	38.4	28.4 - 48.4	500
Intended to breastfeed, before birth	94.8 *	91.6 - 98.1	2,100	92.7 *	86.0 - 99.4	800	96.2 *	93.3 - 99.2	1,300
Intended to breastfeed exclusively, before birth	73.3	66.0 - 80.6	1,600	78.7	67.0 - 90.5	700	69.8	60.5 - 79.2	900
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	86.8	79.9 - 93.7	1,800	--			84.5 *	75.3 - 93.8	1,100
Exclusive breastfeeding, 1 month after delivery	63.4	55.2 - 71.7	1,300	58.9	45.7 - 72.2	500	66.5	56.1 - 76.9	800
Any breastfeeding, 3 months after delivery	78.5	70.1 - 86.8	1,300	78.5 *	64.6 - 92.3	500	78.5	68.0 - 89.0	800
Exclusive breastfeeding, 3 months after delivery	49.8	40.4 - 59.2	800	52.0	37.0 - 67.1	300	48.3	36.3 - 60.3	500

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health and the Women, Infants and Children Divisions in the California Department of Public Health and the Center for Health Equity at the University of California San Francisco.

MIHA Data Snapshot, Yolo County by Total Live Births, 2016-2018

Maternal and Infant Health Assessment (MIHA) Survey

	Yolo County				First Live Birth				Second Live Birth or More			
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Healthcare Utilization												
Had a usual source of pre-pregnancy care	77.8	70.2	85.4	1,700	74.0	62.4	85.5	600	80.2	70.1	90.3	1,100
Initiated prenatal care in 1st trimester	93.1 *	88.9	97.4	2,000	89.4 *	81.0	97.9	800	95.4 *	91.0	99.8	1,300
Received dental care during pregnancy	58.5	50.4	66.6	1,300	63.6	51.0	76.1	500	55.3	44.8	65.8	800
Received a Tdap vaccine during pregnancy	78.1	71.1	85.1	1,700	86.3 *	77.6	95.0	700	73.0	63.3	82.7	1,000
Received a flu shot during pregnancy	75.1	68.0	82.2	1,700	82.2	73.3	91.2	700	70.7	60.9	80.5	1,000
Had a postpartum medical visit	92.4 *	87.5	97.3	2,100	--				91.9 *	85.3	98.4	1,300
Health Insurance Coverage												
Pre-pregnancy insurance												
Medi-Cal	33.3	25.3	41.2	700	25.5	12.8	38.2	200	38.1	27.9	48.4	500
Uninsured	10.1	4.8	15.5	200	5.4 *	0.9	9.9	<100	13.1 *	5.0	21.1	200
Private	54.5	46.3	62.6	1,200	65.5	52.6	78.4	600	47.7	37.4	57.9	700
Prenatal insurance												
Medi-Cal	43.2	35.1	51.3	1,000	36.7	23.6	49.7	300	47.2	36.9	57.5	600
Uninsured	--				--				--			
Private	52.3	44.1	60.4	1,200	59.1	46.1	72.2	500	48.0	37.8	58.3	700
Had any gaps in insurance during pregnancy	9.5 *	3.4	15.6	200	11.4 *	0.6	22.2	<100	8.4 *	1.2	15.5	100
Maternal postpartum insurance												
Medi-Cal	43.1	34.8	51.4	900	41.9	28.6	55.2	300	43.8	33.3	54.4	600
Uninsured	4.6 *	1.5	7.6	100	--				7.1 *	2.3	12.0	<100
Private	51.5	43.3	59.6	1,100	56.0	42.8	69.3	500	48.6	38.3	59.0	700
Infant health insurance												
Medi-Cal	47.4	39.4	55.5	1,000	43.5	30.4	56.7	400	50.0	39.8	60.2	700
Uninsured	--				--				--			
Private	51.4	43.3	59.4	1,100	54.8	41.7	67.9	500	49.1	38.9	59.3	600
Maternal Demographics												
Age												
15-19	3.6 *	0.4	6.7	<100	--				--			
20-34	72.9	66.0	79.9	1,600	77.8	67.6	88.0	700	69.9	60.7	79.2	1,000
35+	23.5	17.0	30.0	500	16.6	7.7	25.6	100	27.8	18.8	36.7	400
Less than high school education (or GED)	11.1	5.2	16.9	200	--				16.5	7.6	25.3	200
Unmarried	29.8	21.6	37.9	700	26.7	14.4	39.1	200	31.7	21.0	42.3	400
Race/Ethnicity												
White	42.7	34.7	50.8	900	60.1	47.1	73.0	500	32.5	23.0	42.0	400
Hispanic	40.5	32.3	48.7	900	25.6	13.4	37.7	200	49.2	38.7	59.8	700
Asian/Pacific Islander	13.3	7.3	19.2	300	13.0 *	4.8	21.2	100	13.4 *	5.4	21.5	200
Black	3.4 *	0.8	5.9	<100	--				4.7 *	0.8	8.5	<100
Born outside the U.S.	33.7	26.1	41.2	800	27.3	15.8	38.8	200	37.6	27.8	47.5	500
Speaks non-English language at home	29.1	21.8	36.5	600	18.5	8.7	28.4	200	35.7	25.7	45.7	500
Lives in a high poverty neighborhood†	15.3	10.2	20.5	300	17.9	8.8	26.9	200	13.6	7.6	19.6	200
Income as a percent of the Federal Poverty Guideline												
0-100%	25.1	17.1	33.1	500	17.8 *	5.5	30.0	100	29.4	19.0	39.7	400
101-200%	22.4	15.8	28.9	500	21.3	10.9	31.7	200	23.0	14.6	31.4	300
> 200%	52.5	44.0	61.0	1,100	60.9	47.4	74.5	500	47.6	36.8	58.4	600

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

‡ This indicator is only available for 2017-2018 (Yolo County, n=177).

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Technical Notes

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Indicator Definitions

Indicators are based on self-reported data from the MIHA survey and refer to the most recent birth, or pregnancy for the most recent birth, unless otherwise indicated. Unless noted, the denominator for each indicator includes all women with a live birth. Any change to a survey question or indicator, compared to how it was in a prior year, is noted in the Change in Definition and/or Comparability column(s). Indicators listed here are from the 2016-2018 MIHA Snapshots. Definitions of indicators included in previous Snapshots can be found in the MIHA Technical Document at https://www.cdph.ca.gov/MIHA.

Health Status Before Pregnancy

Indicator	Definition	Years Available	Change in Definition	Comparability
In good to excellent health	Self-rated health before pregnancy	2011-2018 for current definition; 2010 for previous definition.	Prior to 2011, definition included self-rated *physical* health. In 2011, the survey question was changed from two separate questions on physical health and mental health to one question on "health." Additional response of "Very good" was added between response categories "Excellent" and "Good."	Starting in 2011, the indicator is not comparable with prior years.
Diabetes	Before pregnancy, told by a health care worker that she had diabetes (high blood sugar).	2013-2018 for current definition;	Prior to 2013, definition also included diagnosis *during this pregnancy* with diabetes or with gestational diabetes.	Starting in 2013, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
		2010-2012 for previous definition.		
Hypertension	Before pregnancy, told by a health care worker that she had hypertension (high blood pressure).	2013-2018 for current definition; 2010-2012 for previous definition.	Prior to 2013, definition also included diagnosis *during this pregnancy* with hypertension, preeclampsia, eclampsia or toxemia.	Starting in 2013, the indicator is not comparable with prior years.
Asthma	Before pregnancy, told by a health care worker she had asthma.	2013-2018 for current definition; 2010-2012 for previous definition.	Prior to 2013, definition also included diagnosis of asthma *during this pregnancy*.	Starting in 2013, the indicator is not comparable with prior years.

Nutrition and Weight

Indicator	Definition	Years Available	Change in Definition	Comparability
Daily folic acid use, month before pregnancy	During the month before pregnancy, took a multivitamin, prenatal vitamin or folic acid vitamin every day of the week.	2010-2018	---	---
Overweight before pregnancy	Body Mass Index (BMI) was calculated from weight and height reported on the birth certificate. BMI of 25-29.9 is	2016-2018 for current definition;	Prior to 2016, BMI was calculated with the same method using *self-reported* weight and	Starting in 2016, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	classified as overweight. BMI calculated only for women reporting height within 48-83 inches and weight within 75-399 pounds. BMI values outside of 13-69.99 are excluded. *BMI may overestimate or underestimate body fatness in some individuals since it does not take into consideration an individual's muscle or bone mass. The clinical correlation of BMI has not been validated in some subpopulations; therefore, BMI should not be used as the sole criteria for making health recommendations.*	2010-2015 for previous definition.	height from the MIHA survey.	
Obese before pregnancy	Body Mass Index (BMI) was calculated from weight and height reported on the birth certificate. BMI of 30 or greater is classified as obese. BMI calculated only for women reporting height within 48-83 inches and weight within 75-399 pounds. BMI values outside of 13-69.99 are excluded. *BMI may overestimate or*	2016-2018 for current definition; 2010-2015 for previous definition.	Prior to 2016, BMI was calculated with the same method using *self-reported* weight and height from the MIHA survey.	Starting in 2016, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	underestimate body fatness in some individuals since it does not take into consideration an individual's muscle or bone mass. The clinical correlation of BMI has not been validated in some subpopulations; therefore, BMI should not be used as the sole criteria for making health recommendations.			
Inadequate weight gain during pregnancy	Adequacy of total weight gained during pregnancy, using pre-pregnancy BMI based on the birth certificate, was based on the National Academies of Science, Engineering and Medicine guidelines and restricted to women who delivered at 37-42 weeks gestation, singletons and twins, prenatal weight gain within 0-97 pounds, height within 48-83 inches, pre-pregnancy weight within 75-399 pounds and BMI values within 13-69.99. See National Academies of Science, Engineering guidelines for more detail.	2016-2018 for current definition; 2010-2015 for previous definition.	Prior to 2016, pre-pregnancy BMI was calculated with the same method using *self-reported* weight and height from the MIHA survey.	Starting in 2016, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	BMI may overestimate or underestimate body fatness in some individuals since it does not take into consideration an individual's muscle or bone mass. The clinical correlation of BMI has not been validated in some subpopulations; therefore, BMI should not be used as the sole criteria for making health recommendations.			
Excessive weight gain during pregnancy	Adequacy of total weight gained during pregnancy, using pre-pregnancy BMI based on the birth certificate, was based on the National Academies of Science, Engineering and Medicine guidelines and restricted to women who delivered at 37-42 weeks gestation, singletons and twins, prenatal weight gain within 0-97 pounds, height within 48-83 inches, pre-pregnancy weight within 75-399 pounds and BMI values within 13-69.99. See National Academies of Science, Engineering guidelines	2016-2018 for current definition; 2010-2015 for previous definition.	Prior to 2016, pre-pregnancy BMI was calculated with the same method using *self-reported* weight and height from the MIHA survey.	Starting in 2016, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	for more detail. *BMI may overestimate or underestimate body fatness in some individuals since it does not take into consideration an individual's muscle or bone mass. The clinical correlation of BMI has not been validated in some subpopulations; therefore, BMI should not be used as the sole criteria for making health recommendations.*			
Food insecurity during pregnancy	Calculated from the modified U.S. Department of Agriculture (USDA) Food Security Module Six-Item Short Form and categorized as food secure (0-1) or food insecure (2-6). Responses with one or two missing values were imputed. See USDA guidelines for more detail.	2010-2018	---	---

Nutrition Program Participation

Indicator	Definition	Years Available	Change in Definition	Comparability
Participated in WIC during pregnancy	WIC is the Special Supplemental Nutrition Program for Women, Infants and Children. Participation in WIC during pregnancy is based on self-report on the MIHA survey.	2010, 2013-2018 for current definition; 2012 for previous definition.	In 2012, participation in WIC during pregnancy was based on WIC client records obtained from WIC Management Information System (WIC MIS) and linked to the MIHA survey.	This indicator was not published for 2011.
Received CalFresh (food stamps) during pregnancy	CalFresh, formerly known as food stamps, is the California Supplemental Nutrition Assistance Program.	2011-2018	Prior to 2011, the question did not include the phrase "(also called CalFresh benefits)".	Starting in 2011, the indicator is not comparable with prior years.

Intimate Partner Violence (IPV) and Depressive Symptoms

Indicator	Definition	Years Available	Change in Definition	Comparability
Physical, psychological, or sexual IPV during pregnancy	During pregnancy, experienced any of the following: pushed, hit, slapped, kicked, choked or physically hurt in any way by current or former partner; frightened for safety of self, family or friends because of current or former partner's anger/threats; current or former partner tried to control most/all daily activities; forced	2017-2018	Prior to 2017, IPV indicator measured physical or psychological IPV during pregnancy; starting in 2017, sexual IPV was added.	In 2017, replaced previous *Physical or psychological IPV during pregnancy* indicator and is not comparable with prior indicators. See previous indicators and definitions in the MIHA Technical Document.

Indicator	Definition	Years Available	Change in Definition	Comparability
	into any type of unwanted sexual activity by current or former partner.			
Prenatal depressive symptoms	During pregnancy, always or often: felt down, depressed or hopeless, *or* had little interest or pleasure in doing things usually enjoyed.	2016-2018	Prior to 2016, the indicator was based on a different set of questions and defined as during pregnancy, experienced both of the following for two weeks or longer: felt sad, empty or depressed for most of the day; lost interest in most things she usually enjoyed.	In 2016, replaced the previous prenatal depressive symptoms indicator and is not comparable with prior years. See previous definition in the MIHA Technical Document.
Postpartum depressive symptoms	Since most recent birth, always or often: felt down, depressed or hopeless, *or* had little interest or pleasure in doing things usually enjoyed.	2016-2018	Prior to 2016, the indicator was based on a different set of questions and defined as since most recent birth, experienced both of the following for two weeks or longer: felt sad, empty or depressed for most of the day; lost interest in most things she usually enjoyed.	In 2016, replaced previous postpartum depressive symptoms indicator and is not comparable with prior years. See previous definition in the MIHA Technical Document.

Hardships and Support During Pregnancy

Indicator	Definition	Years Available	Change in Definition	Comparability
Homeless or did not have a regular place to sleep	During pregnancy, did not have a regular place to sleep at night (moved from house to house) or was homeless (had to sleep outside, in a car or in a shelter).	2011-2018	---	---
Moved due to problems paying rent or mortgage	During pregnancy, had to move because of problems paying the rent or mortgage.	2011-2018	Prior to 2011, indicator measured whether a woman moved to a new address for any reason.	In 2011, replaced previous *Moved* indicator and is not comparable with prior years. See previous indicator and definition in the MIHA Technical Document.
Woman or partner lost job	During pregnancy, lost job even though wanted to go on working, or husband or partner lost their job.	2010-2018	---	---
Woman or partner had pay or hours cut back	During pregnancy, had pay or hours cut back, or partner had pay or hours cut back.	2011-2018	---	---
Became separated or divorced	During pregnancy, became separated or divorced from partner.	2010-2018	---	---

Indicator	Definition	Years Available	Change in Definition	Comparability
Had no practical or emotional support	During pregnancy, had neither someone to turn to for practical help, like getting a ride somewhere, or help with shopping or cooking a meal; nor someone to turn to if she needed someone to comfort or listen to her.	2010-2018	---	---
Often experienced racism over her lifetime	During lifetime, very or somewhat often has been discriminated against, prevented from doing something or hassled or made to feel inferior because of race, ethnicity or color.	2016-2018	---	---

Substance Use

Indicator	Definition	Years Available	Change in Definition	Comparability
Any smoking, 3 months before pregnancy	During the three months before pregnancy, smoked any cigarettes on an average day.	2010-2018	---	---
Any smoking, 3rd trimester	During the last three months of pregnancy, smoked any cigarettes on an average day.	2013-2018	Prior to 2013, this indicator was combined with any smoking during the first trimester.	In 2013, this indicator replaced previous *Any smoking, 1st or 3rd trimester* indicator and is not comparable to prior

Indicator	Definition	Years Available	Change in Definition	Comparability
				years. See previous indicator and definition in the MIHA Technical Document.
Any smoking, postpartum	At the time of the survey, smoked any cigarettes.	2011-2018	---	---
Any binge drinking, 3 months before pregnancy	During the three months before pregnancy, drank four or more alcoholic drinks in one sitting (within about two hours) at least one time.	2010-2018	---	---
Any alcohol use, 3rd trimester	During the last three months of pregnancy, drank any alcoholic drinks in an average week.	2013-2018	Prior to 2013, this indicator was combined with any alcohol use during the first trimester.	In 2013, replaced previous *Any alcohol use, 1st or 3rd trimester* indicator and is not comparable to prior years. See previous indicator and definition in the MIHA Technical Document.
Any cannabis use during pregnancy	During most recent pregnancy, used marijuana or weed in any way (like smoking, eating or vaping).	2016-2018	---	---

Pregnancy Intention and Family Planning

Indicator	Definition	Years Available	Change in Definition	Comparability
Mistimed or unwanted pregnancy	Just before pregnancy, felt that she did not want to get pregnant then or in the future, or wanted to get pregnant later.	2011-2018	---	Starting in 2011, the indicator is not comparable with the unintended pregnancy indicator from prior years.
Unsure of pregnancy intentions	Just before pregnancy, felt that she was not sure if she wanted to get pregnant.	2011-2018	---	---
Postpartum birth control use	At the time of the survey, woman or husband/partner was doing something to keep from getting pregnant. Women who were currently pregnant or had a hysterectomy/oophorectomy are excluded from the denominator.	2013-2018 for current definition; 2011-2012 for previous definition.	Prior to 2013, definition excluded from the denominator women who were currently pregnant and women who were not having sex at the time of the survey.	Starting in 2013, the indicator is not comparable with prior years.

Infant Sleep and Breastfeeding

Indicator	Definition	Years Available	Change in Definition	Comparability
Placed infant on back to sleep	Put baby down to sleep on his or her back most of the time. Women whose infant did not reside with them at the time of	2010-2018	---	---

Indicator	Definition	Years Available	Change in Definition	Comparability
	the survey are excluded from the denominator.			
Infant always or often shared bed	Baby always or often slept in the same bed with her or someone else. Women whose infant did not reside with them at the time of the survey are excluded from the denominator.	2010-2011, 2013-2018	---	Question was not on the survey in 2012.
Intended to breastfeed, before birth	Before delivery, planned to breastfeed only or to breastfeed and use formula. Women whose infant did not reside with them at the time of the survey are excluded from the denominator.	2010-2018	---	---
Intended to breastfeed exclusively, before birth	Before delivery, planned to breastfeed only. Women whose infant did not reside with them at the time of the survey are excluded from the denominator.	2010-2018	---	---
Any breastfeeding, 1 month after delivery	Fed infant breast milk for at least one month after delivery with or without formula, other liquids or food. Infant age is calculated from date of birth on the birth certificate. Women	2011-2018	The infant feeding questions changed in 2011.	Starting in 2011, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	whose infant did not reside with them at the time of the survey are excluded from the denominator.			
Exclusive breastfeeding, 1 month after delivery	Fed infant only breast milk (no supplementation with formula, other liquids or food) for at least one month after delivery. Infant age is calculated from date of birth on the birth certificate. Women whose infant did not reside with them at the time of the survey are excluded from the denominator.	2011-2018	The infant feeding questions changed in 2011.	Starting in 2011, the indicator is not comparable with prior years.
Any breastfeeding, 3 months after delivery	Fed infant breast milk for at least three months after delivery with or without supplementing with formula, other liquids or food. Infant age is calculated from date of birth on the birth certificate. Women whose infant did not reside with them or whose infant was not yet three months old at the time the respondent completed the survey are excluded from the denominator.	2011-2018	The infant feeding questions changed in 2011.	Starting in 2011, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
Exclusive breastfeeding, 3 months after delivery	Fed infant only breast milk (no supplementation with formula, other liquids or food) for at least three months after delivery. Infant age is calculated from date of birth on the birth certificate. Women whose infant did not reside with them or whose infant was not yet three months old at the time of the survey are excluded from the denominator.	2011-2018	The infant feeding questions changed in 2011.	Starting in 2011, the indicator is not comparable with prior years.

Health Care Utilization

Indicator	Definition	Years Available	Change in Definition	Comparability
Had a usual source of pre-pregnancy care	Just before pregnancy, had a particular doctor, nurse or clinic that she usually went to for health care.	2011-2018	Prior to 2011, the question included the phrase in italics: "Just before you got pregnant *for your most recent birth.*"	Starting in 2011, the indicator is not comparable with prior years.
Initiated prenatal care in 1st trimester	Had first prenatal care visit in the first three months or 13 weeks of pregnancy, not counting a visit for just a pregnancy test or a WIC visit.	2012-2018	In 2011, the phrases in italics were added to the questions: "Did you get any prenatal care during your most recent pregnancy? (Please do not count a visit just for	Starting in 2012, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
			a pregnancy test *or only for WIC, the Women, Infants and Children supplemental nutrition program*.)" and "How many weeks or months pregnant were you when you had your first prenatal care visit? (Please do not count a visit just for a pregnancy test *or only for WIC*.)" In 2012, the filter question, "Did you get any prenatal care during your most recent pregnancy?" was dropped.	
Received dental care during pregnancy	During pregnancy, visited a dentist, dental clinic, or got dental care at a health clinic.	2012, 2015-2018	---	This indicator was reported as "had a dental visit during pregnancy" in 2009 and 2012 and is comparable to this indicator. Question was not on the survey 2013-2014.

Indicator	Definition	Years Available	Change in Definition	Comparability
Received a Tdap vaccine during pregnancy	During most recent pregnancy, received a Tdap vaccination or shot.	2016-2018	---	---
Received a flu shot during pregnancy	During most recent pregnancy, had a flu shot.	2016-2018	---	---
Had a postpartum medical visit	Had a postpartum check-up for herself (the medical check-up 4-6 weeks after a woman gives birth).	2011-2018	---	---

Health Insurance Coverage

Indicator	Definition	Years Available	Change in Definition	Comparability
Pre-pregnancy/postpartum insurance	During the month before pregnancy/at the time of the survey, had Medi-Cal or a health plan paid for by Medi-Cal; private insurance through her or her husband's/partner's job, her parents or purchased directly; or was uninsured. Women with both Medi-Cal and private insurance were categorized as Medi-Cal.	2011-2018 for current definition; 2010 for previous definition.	Starting in 2011, women with "Other" insurance, such as military, Indian Health Service, Medicare or international, are not shown; the 2010 indicator combined the "Other" and "Private" insurance categories; and women were asked to provide the name of their health insurance plan, which was used to	Starting in 2011, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
			categorize insurance with greater precision.	
Prenatal insurance	During pregnancy had one of the following to pay for prenatal care: Medi-Cal or a health plan paid for by Medi-Cal; private insurance through her or her husband's/partner's job, her parents or purchased directly; or was uninsured. Women with both Medi-Cal and private insurance categorized as Medi-Cal.	2011-2018 for current definition; 2010 for previous definition.	Starting in 2011, women with "Other" insurance, such as military, Indian Health Service, Medicare or international, are not shown; the 2010 indicator combined the "Other" and "Private" insurance categories; and the prenatal insurance question changed in order to distinguish between Medi-Cal and a plan paid for by Medi-Cal, as well as to identify how women obtained private insurance. Women also were asked to provide the name of their health insurance plan, which was used to categorize insurance with greater precision.	Starting in 2011, the indicator is not comparable with prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
Had any gaps in insurance during pregnancy	During pregnancy, had no health insurance plan at all to pay for prenatal care or had one or more periods without health insurance coverage.	2016-2018	---	---
Infant health insurance	Infant had Medi-Cal or a health plan paid for by Medi-Cal; private insurance through parent's job or purchased directly; or was uninsured.	2011-2018 for current definition; 2010 for previous definition.	Starting in 2011, infants with "Other" insurance, such as military, California Children's Services, Indian Health Service or Medicare, are not shown; the 2010 indicator combined the "Other" and "Private" insurance categories; and women were asked to provide the name of their infant's health insurance plan, which was used to categorize insurance with greater precision. Women whose infant did not reside with them at the time of the survey were excluded from the denominator.	Starting in 2011, the indicator is not comparable with prior years.

Maternal Demographics

Indicator	Definition	Years Available	Change in Definition	Comparability
Age	Age of mother at time of birth, reported on the birth certificate.	2010-2018	---	---
First live birth	Recent birth is the first live birth delivered by the mother, reported on the birth certificate.	2010-2018	---	---
Total Live Births (Statewide Snapshots subgroup)	The number of live births the mother delivered as reported on the birth certificate. If the most recent delivery was twins or triplets, only the first baby born is included in the count and is considered one birth. For prior multiple births each baby is counted separately.	2010-2018	---	---
Less than high school education (or GED)	At the time of the survey, had completed no school; 8th grade or less; or some high school, but did not graduate.	2010-2018	---	---
Unmarried	At the time of birth, was single (never married); separated, divorced or widowed; or living with someone like they were married, but not legally married.	2010-2018	---	---

Indicator	Definition	Years Available	Change in Definition	Comparability
Race/Ethnicity	Mother's Hispanic origin and the first race listed on the birth certificate.	2010-2018	---	---
Born outside the U.S.	Mother's place of birth not in the U.S., reported on the birth certificate.	2010-2018	---	---
Speaks non-English language at home	Usually speaks Spanish or an Asian or other language at home (if more than one language spoken, the one used most often; women who speak English and Spanish equally are not included in this group).	2010-2018	---	---
Neighborhood Poverty (Statewide Snapshots subgroup)	The percentage of residents living below the federal poverty threshold in a given neighborhood, as defined by census tract of the residence, reported on the birth certificate. The estimated percentage of residents below poverty by census tract is obtained from American Community Survey 5-year estimates from the most recent year. Birth certificate and American Community Survey data are linked. Categories are defined as: Low (<10% of	2016-2018 for current definition; 2013-2015 for previous definition.	Prior to 2016, categories for level of neighborhood poverty were defined as: 0-4.9%, 5-9.9%, 10-19.9% and ≥20%.	Starting in 2016, subgroups are not comparable to prior years.

Indicator	Definition	Years Available	Change in Definition	Comparability
	residents below poverty), moderate-low (10-19% of residents below poverty), moderate-high (20-29% of residents below poverty) and high (≥ 30% of residents below poverty).			
Lives in a high poverty neighborhood	Lives in a neighborhood, as defined by census tract of the residence reported on the birth certificate, in which 30% or more of residents are living below the federal poverty threshold. The estimated percentage of residents below poverty by census tract is obtained from American Community Survey 5-year estimates from the most recent year. Birth certificate and American Community Survey data are linked.	2016-2018 for current definition; 2013-2015 for previous definition.	Prior to 2016, high poverty neighborhood was defined as 20% or more of residents living below the federal poverty threshold.	Starting in 2016, indicator is not comparable to prior years.
Income as a percent of the Federal Poverty Guideline (FPG)	Calculated from monthly family income, before taxes from all sources, including jobs, welfare, disability, unemployment, child support, interest, dividends and support from family members,	2010-2018	---	---

Indicator	Definition	Years Available	Change in Definition	Comparability
	and the number of people living on that income. See the annual Poverty Guidelines published by the U.S. Department of Health and Human Services for more detail.			
Geographical Area (Statewide Snapshots subgroup)	Urban and rural/frontier designations are based on the population size or densities of Medical Service Study Areas (MSSAs). MSSAs are sub-county geographic units composed of one or more census tracts. Women are classified as living in an urban area if their MSSA ranges in population from 75,000 to 125,000; a rural area if their MSSA has a population density of less than 250 persons per square mile and a frontier area if their MSSA has a population density of less than 11 persons per square mile. Women's MSSA is based on the residence reported on the birth certificate. See the California Department of Health Care Access and	2013-2018	---	---

Indicator	Definition	Years Available	Change in Definition	Comparability
	Information (HCAI) for more detail on MSSAs.			

Data Annotation and Suppression Criteria

The current MIHA data suppression criteria require estimates to be suppressed when:

- the sample numerator is less than 5,
- the number of women in the population of interest (population denominator) is less than 100,
- the relative standard error (RSE) is greater than 50%, or
- a measure has been determined to address a sensitive topic and the prevalence is greater than 80% and the unweighted population divided by the weighted population is greater than 50%.

Additionally, estimates are annotated and users are warned to interpret with caution if the RSE is between 30% and 50%. The RSE is a commonly used measure of reliability, or precision, of survey estimates and is calculated using the following formulas:

For estimates with a prevalence ≤ 50%:

Standard error ÷ estimate

For estimates with a prevalence > 50%:

Standard error ÷ (1-estimate)

Some MIHA publications using data from 2010-2012 used a previous set of suppression criteria in which estimates were suppressed when the number of events (sample numerator) was less than 10.

Weighting Methods

Sampling weights are created in MIHA to account for the stratified design, oversampling of specific groups, non-response among the women sampled and non-coverage of women who could not be sampled because their births were not in the sampling frame. When the final MIHA sample is weighted each year, it is designed to be representative of all mothers who delivered live-born infants in California during the calendar year in which the survey was conducted and who met other criteria, including mothers who were California residents, at least 15 years of age and had a singleton, twin or triplet birth. Although MIHA data are weighted to the entire birthing population, minus exclusions, the survey is only administered in English and Spanish and results may not be generalizable to women who speak other languages. The population represented by MIHA is referred to as the "target" population and is defined using the annual birth file, which is the final compilation of California birth data released annually by the Center for Health Statistics and Informatics (CHSI). From 1999-2017, this file was the Birth Statistical Master File (BSMF)and starting in 2018, it is the California Comprehensive Master Birth File (CCMBF).

The MIHA survey design allows for oversampling of certain groups, meaning their probabilities of selection were greater than the proportions of births they represented in the state. This ensures that enough respondents participate in the survey to allow for analysis. These oversamples have included American Indian/Alaska Native women (2012-2015), Black women (all years), WIC-eligible women not participating in the WIC program (2010-2012), women with a preterm birth (2016 and later), the 20 counties with the most births (2010-2012) and the 35 counties with the most births (2013 to present).

Every woman who responded to MIHA is assigned a survey weight, which indicates the number of mothers in California like herself that she represents. Starting in 2010, this State Weight has consisted of 4 components (see below) calculated within strata. Additional steps have been added in subsequent years to create a Final Weight and improve the ability of the sample to represent the target population. Starting in 2011, raking (see details below) was added to the weighting process to adjust the State Weights to more accurately represent the annual birth file, particularly at the county level. Starting in 2013, trimming of weights (see details below) was implemented to reduce the influence of excessively large survey weights. These methods of raking and trimming continue to be used in all MIHA publications since 2013.

Calculation of the State Weight

The components of the State Weight are as follows:

Non-Coverage Weight

The non-coverage weight accounts for differences between the frame from which the sample is drawn and the target population to which generalizations are made. The MIHA sample is drawn from birth certificate data for births occurring from February through May of each year, which is referred to as the "sampling frame." Birth certificate data files from which the MIHA sample is drawn are provided in monthly batches by CHSI. The non-coverage weight accounts for the difference between the number of births in the sampling frame and the number in the calendar

year. The non-coverage weight also accounts for changes that might be made to the birth file after the sample is taken (e.g., births may not be in the frame files for sampling if they are reported late, but these late reported births are eventually included in the annual birth file). The non-coverage weight is defined, within stratum *S*, as:

$$Number\ in\ the\ Target\ Population_S \div Number\ in\ the\ Sampling\ Frame_S$$

Inverse of Sampling Fraction

The sampling fraction is the probability of selection, or the ratio of the number of women sampled to the number of women in the sampling frame. Therefore, the inverse of the sampling fraction within stratum *S* is:

$$Number\ in\ the\ Sampling\ Frame_S \div Number\ Sampled_S$$

Non-Response Weight

This weight adjusts for non-response to the survey by women who were sampled. The non-response weight is calculated within stratum *S* as:

$$Number\ Sampled_S \div Number\ of\ Respondents_S$$

Post-stratification Weight for Non-response (Propensity Score Adjustment)

The non-response weight described above accounts for non-response on factors used to define the strata (e.g., Black race, term or preterm birth and county/region of residence). Additional individual-level factors may also predict whether a woman is likely to respond to the MIHA survey. Therefore, another adjustment for non-response is calculated to make the MIHA survey more representative of the target population from which the sample is taken. The probability of responding (versus not responding) is calculated using a geographically stratified logistic regression model of all sampled women. Variables in the logistic regression model come from the annual birth file and include maternal race/ethnicity, US or foreign birthplace, age, education, reported principal source of delivery payment, total children born alive, month prenatal care began, WIC participation, and term or preterm birth. A predicted probability (*p*) of being a respondent, or propensity score, is output for every woman sampled. The score is then rescaled, which means that *p* is multiplied by a constant factor for all respondents, so that the sum of *p* over all respondents now adds to the number of respondents.

Starting in 2014, the post-stratification weight is capped at the 99th percentile of the post-stratification weight for each year.

Formula for State Weight

The State Weight is calculated using the four components defined above:

*NON-COVERAGE * INVERSE SAMPLING FRACTION * NON-RESPONSE * POST-STRATIFICATION*

Adjustments to Create the Final Weight

Raking Survey Weights (or Iterative Proportional Fitting)

Raking is a process by which the weighted prevalence of a selected variable is aligned with the known prevalence in a target population. In MIHA, the State Weights are raked so that weighted birth certificate variable estimates reflect those of the annual birth file as closely as possible at the level of the respondent's sampling region (county or group of counties). Raking is conducted over a series of predetermined variables, one at a time, in an iterative process. Raking variables include maternal age, race/ethnicity, nativity, prior cesarean section (2010-2012), low birth weight, preterm birth, prior live births, delivery payer, delivery method, BMI before pregnancy (2013-2018), education (2013-2018) and WIC participation (2017-2018). The weight assigned to each woman who falls in category *C* of raking variable *V* is multiplied by a factor of:

Number in the Target Population vc ÷ Weighted Number of MIHA Respondents vc

The first adjustment is made to the State Weight calculated in the previous section. This results in a different weight value, which is adjusted using the next raking variable and the process continues for each variable. After this is done for all desired variables, the data are checked to ensure the percentages for each raking variable are as close as possible to those of the annual birth file within the sampling region or group. If results can be adjusted to be more similar to those of the annual birth file, the process starts again with the first raking variable, using the weight from the previous iteration.

After the raking process is complete, the resulting weight is rescaled (i.e., multiplied by a constant factor), so that the sum of the raked weights over all respondents adds to the number of women in the annual birth file who meet MIHA's inclusion criteria in that county/region.

Rationale for Raking

Before raking was introduced, the prior weighting method produced weighted data that were very close to the data from the annual birth file at the state level and for most counties/regions. However, there were some remaining discrepancies between the weighted MIHA data and the annual birth file within subgroups of women and at the county and regional levels. Raking the State Weights produces estimates that are closer to those of the annual birth file for subgroups, and at the county and regional level.

Trimming Survey Weights

MIHA weights are trimmed to reduce the influence of excessively high individual weights. Trimming is the process by which survey weights are reset to a predetermined upper limit, which reduces the occurrence of uniquely high weights that may skew survey results. To trim survey weights, a standardized distance is calculated for weights within each stratum. Strata with weights with excessive (>99th percentile) distances are identified, and weights within those strata are trimmed at the third standard deviation (99.73rd percentile) of weights, which are constrained to a fixed range of the original State Weight. Weights are rescaled so that totals reflect population totals in the annual birth file.

After raking and trimming, differences between county-level and regional-level MIHA data and the annual birth file are small. Very few of the estimates in the largest 35 counties are greater than three percentage points different from those in the annual birth file after raking. After trimming, the median difference between the weighted/trimmed MIHA value and the annual birth file in 2017 for raking variables was 0.00%, and 89% of estimates were within one percentage point of the birth file value. Differences between MIHA and the target population are sometimes greater in the smaller sampling regions, such as San Benito County, than in the counties that have more births.

Comparability across Years

Updated weighting methods have been retroactively applied to datasets starting with the year 2010. MIHA publications for 2010-2012 that were produced using earlier methods (i.e., without the raking or trimming steps) have not been updated using the new weights, but all analyses published after 2013 have applied the raked and trimmed weights for 2010 MIHA data onward. The difference between the estimates using the old and new weighting methods is small. Therefore, users may compare estimates across MIHA data years and publications, in spite of the changes to the weighting methods, unless specific changes in indicators are otherwise noted.

“Loved answering this survey -- hope it helps pregnant women in the world.”

— MIHA 2016 Respondent