

# Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger

UNITED STATES  
**2019**

## Vaccines in the Child and Adolescent Immunization Schedule\*

Vaccines	Abbreviations	Trade names
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel Infanrix
Diphtheria, tetanus vaccine	DT	No Trade Name
<i>Haemophilus influenzae</i> type b vaccine	Hib (PRP-T)	ActHIB Hiberix
	Hib (PRP-OMP)	PedvaxHIB
Hepatitis A vaccine	HepA	Havrix Vaqta
Hepatitis B vaccine	HepB	Engerix-B Recombivax HB
Human papillomavirus vaccine	HPV	Gardasil 9
Influenza vaccine (inactivated)	IIV	Multiple
Influenza vaccine (live, attenuated)	LAIV	FluMist
Measles, mumps, and rubella vaccine	MMR	M-M-R II
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-D	Menactra
	MenACWY-CRM	Menveo
Meningococcal serogroup B vaccine	MenB-4C	Bexsero
	MenB-FHbp	Trumenba
Pneumococcal 13-valent conjugate vaccine	PCV13	Prevnar 13
Pneumococcal 23-valent polysaccharide vaccine	PPSV23	Pneumovax
Poliovirus vaccine (inactivated)	IPV	IPOL
Rotavirus vaccine	RV1 RV5	Rotarix RotaTeq
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel Boostrix
Tetanus and diphtheria vaccine	Td	Tenivac Td vaccine
Varicella vaccine	VAR	Varivax

### Combination Vaccines (Use combination vaccines instead of separate injections when appropriate)

DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix
DTaP, inactivated poliovirus, and <i>Haemophilus influenzae</i> type b vaccine	DTaP-IPV/Hib	Pentacel
DTaP and inactivated poliovirus vaccine	DTaP-IPV	Kinrix Quadricel
Measles, mumps, rubella, and varicella vaccines	MMRV	ProQuad

\*Administer recommended vaccines if immunization history is incomplete or unknown. Do not restart or add doses to vaccine series for extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit. The use of trade names is for identification purposes only and does not imply endorsement by the ACIP or CDC.

## How to use the child/adolescent immunization schedule

- 1** Determine recommended vaccine by age (Table 1)
- 2** Determine recommended interval for catch-up vaccination (Table 2)
- 3** Assess need for additional recommended vaccines by medical condition and other indications (Table 3)
- 4** Review vaccine types, frequencies, intervals, and considerations for special situations (Notes)

Recommended by the Advisory Committee on Immunization Practices ([www.cdc.gov/vaccines/acip](http://www.cdc.gov/vaccines/acip)) and approved by the Centers for Disease Control and Prevention ([www.cdc.gov](http://www.cdc.gov)), American Academy of Pediatrics ([www.aap.org](http://www.aap.org)), American Academy of Family Physicians ([www.aafp.org](http://www.aafp.org)), and American College of Obstetricians and Gynecologists ([www.acog.org](http://www.acog.org)).

### Report

- Suspected cases of reportable vaccine-preventable diseases or outbreaks to your state or local health department
- Clinically significant adverse events to the Vaccine Adverse Event Reporting System (VAERS) at [www.vaers.hhs.gov](http://www.vaers.hhs.gov) or (800-822-7967)



Download the CDC Vaccine Schedules App for providers at [www.cdc.gov/vaccines/schedules/hcp/schedule-app.html](http://www.cdc.gov/vaccines/schedules/hcp/schedule-app.html).

### Helpful information

- Complete ACIP recommendations: [www.cdc.gov/vaccines/hcp/acip-recs/index.html](http://www.cdc.gov/vaccines/hcp/acip-recs/index.html)
- General Best Practice Guidelines for Immunization: [www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html](http://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html)
- Outbreak information (including case identification and outbreak response), see Manual for the Surveillance of Vaccine-Preventable Diseases: [www.cdc.gov/vaccines/pubs/surv-manual](http://www.cdc.gov/vaccines/pubs/surv-manual)



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# Table 1

## Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger United States, 2019

These recommendations must be read with the Notes that follow. For those who fall behind or start late, provide catch-up vaccination at the earliest opportunity as indicated by the green bars in Table 1. To determine minimum intervals between doses, see the catch-up schedule (Table 2). School entry and adolescent vaccine age groups are shaded in gray.

Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19-23 mos	2-3 yrs	4-6 yrs	7-10 yrs	11-12 yrs	13-15 yrs	16 yrs	17-18 yrs	
<b>Hepatitis B (HepB)</b>	1 <sup>st</sup> dose	2 <sup>nd</sup> dose					3 <sup>rd</sup> dose											
<b>Rotavirus (RV) RV1 (2-dose series); RV5 (3-dose series)</b>			1 <sup>st</sup> dose	2 <sup>nd</sup> dose	See Notes													
<b>Diphtheria, tetanus, &amp; acellular pertussis (DTaP: &lt;7 yrs)</b>			1 <sup>st</sup> dose	2 <sup>nd</sup> dose	3 <sup>rd</sup> dose		4 <sup>th</sup> dose					5 <sup>th</sup> dose						
<b>Haemophilus influenzae type b (Hib)</b>			1 <sup>st</sup> dose	2 <sup>nd</sup> dose	See Notes		3 <sup>rd</sup> or 4 <sup>th</sup> dose, See Notes											
<b>Pneumococcal conjugate (PCV13)</b>			1 <sup>st</sup> dose	2 <sup>nd</sup> dose	3 <sup>rd</sup> dose		4 <sup>th</sup> dose											
<b>Inactivated poliovirus (IPV: &lt;18 yrs)</b>			1 <sup>st</sup> dose	2 <sup>nd</sup> dose			3 <sup>rd</sup> dose					4 <sup>th</sup> dose						
<b>Influenza (IV) or Influenza (LAIV)</b>											Annual vaccination 1 or 2 doses		Annual vaccination 1 or 2 doses		Annual vaccination 1 dose only			
<b>Measles, mumps, rubella (MMR)</b>					See Notes		1 <sup>st</sup> dose					2 <sup>nd</sup> dose						
<b>Varicella (VAR)</b>					See Notes		1 <sup>st</sup> dose					2 <sup>nd</sup> dose						
<b>Hepatitis A (HepA)</b>					See Notes						2-dose series, See Notes							
<b>Meningococcal (MenACWY-D ≥9 mos; MenACWY-CRM ≥2 mos)</b>																		
<b>Tetanus, diphtheria, &amp; acellular pertussis (Tdap: ≥7 yrs)</b>																1 <sup>st</sup> dose	2 <sup>nd</sup> dose	
<b>Human papillomavirus (HPV)</b>																		
<b>Meningococcal B</b>																		
<b>Pneumococcal polysaccharide (PPSV23)</b>																		

Range of recommended ages for all children  
 Range of recommended ages for catch-up immunization  
 Range of recommended ages for certain high-risk groups  
 Range of recommended ages for non-high-risk groups that may receive vaccine, subject to individual clinical decision-making  
 No recommendation