**How Contagious is It?**

Epidemiologists measure how contagious a disease is by the "basic reproduction number" or RO. The Coronavirus has an RO of 5.7 (Emerging Infectious Disease Journal, Volume 26, Number 7-July 2020), meaning that each person would be expected to pass COVID-19 on to five to six people. With this number, it is expected that 82% of the population has to be immune to COVID-19 either through immunization or prior infection to achieve herd immunity and stop the transmission.

For comparison, common viruses have the following RO #s:
1. Influenza: RO ~1.3
2. SARS: RO ~4
3. Mumps RO ~10
4. Measles RO ~18

According to what we know so far, children are much less likely to get the virus than adults. According to John Edmunds, a member of Britain’s Scientific Advisory Group for Emergencies (SAGE), there has only been one documented study citing one outbreak of COVID-19 at a secondary school, in the world.
Stay home when you are sick
Cover coughs and sneezes with tissue
Wash hands with soap and water for at least 20 seconds
Use hand sanitizer with at least 60% alcohol
Avoid touching your face
Sanitize frequently touched services
Wear a face mask (2 years and older) to prevent the spread from asymptomatic people
Socially distance as much as possible

By The Numbers
United States
<2% of confirmed cases in children <18 years old
California
5.7% in children 0-17 years old
Orange County
4% in children 0-17 years old

Death rate in United States
Birth to five years: .00009%

Sources:
CDC, 5/28/20
CA.gov, 6/1/20
OC HCA, 6/1/20

Symptoms or Not?
Fever
Cough
Shortness of breath

Most children show mild signs and symptoms for common viral respiratory infections, like a 'cold'
Most children show milder symptoms than adults.
Approximately 13% of pediatric cases showed no symptoms.


Stopping the Spread
Centers for Disease Control and Prevention
1. Stay home when you are sick
2. Cover coughs and sneezes with tissue
3. Wash hands with soap and water for at least 20 seconds
4. Use hand sanitizer with at least 60% alcohol
5. Avoid touching your face
6. Sanitize frequently touched services
7. Wear a face mask (2 years and older) to prevent the spread from asymptomatic people
8. Socially distance as much as possible

Resources for Parents
1. Zero to Three: Tips for Families: Coronavirus
2. First 5 Association of California
3. Early Childhood OC
   a. https://sites.google.com/view/ecoc-covid-19/home
4. Healthychildren.org (American Academy of Pediatrics)
   a. https://www.healthychildren.org/English/Pages/default.aspx

https://www.earlychildhooddoc.org