

Unique Features of Pediatric COVID-19 and FAQs

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SARS-CoV-2 Pediatric Epidemiology

Children comprise:

- 22% of the US population
- 7.3% of all cases of COVID-19 in the US

The true incidence of SARS-CoV-2 infection in children is
NOT KNOWN

Infections and Transmission Among Children

- Unclear if children are as susceptible to SARS-CoV-2
- Unclear if children can transmit the virus effectively
- Same or higher viral loads in their nasopharynx
- Can spread the virus effectively in households and camp settings

Pediatric Manifestations of SARS-CoV-2

Asymptomatic

Evidence suggests that as many as 45% of pediatric infections are asymptomatic!

Mild

Moderate (pneumonia without hypoxemia)

Severe (dyspnea, central cyanosis, hypoxemia)

Critical (ARDS, respiratory failure, shock)

Liguoro et al. SARS-COV-2 infection in children and newborns: a systematic review. Eur J Peds. 2020.

SARS-CoV-2 Hospitalization

	Children	Adults
Rate of hospitalization	8 per 100,000 population	164.5 per 100,000 population

SARS-CoV-2 Hospitalization

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Rate of hospitalization	8 per 100,000 population	164.5 per 100,000 population
ICU admission	1 in 3	1 in 3

SARS-CoV-2 Symptoms

<10 years old

- Fever 46%
- Cough 37%

10-19 years old

- Fever 35%
- Cough 41%
- Myalgia 30%
- Headache 42%

Adults

- Fever 43%
- Cough 50%
- Myalgia 46%
- Headache 34%
- Dyspnea 29%

Coronavirus Disease 2019 Case Surveillance — United States, January 22–May 30, 2020.

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Kids with fever and respiratory symptoms, do they all need COVID-19 test?

FAQ

Student Symptom Decision Tree

Screen all students for potential COVID-19 symptoms or exposure

Low-risk: general symptoms

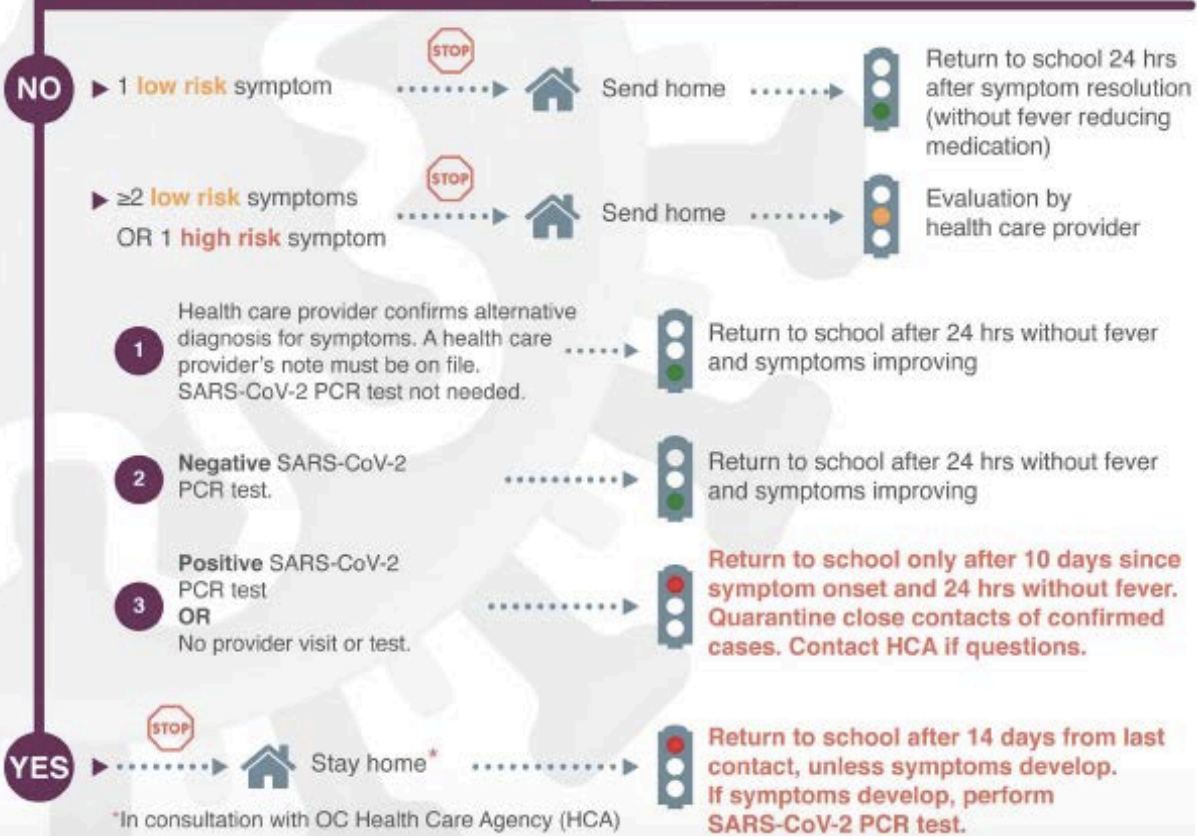
-  Fever ($\geq 100.4^{\circ}\text{F}$)
-  Sore throat
-  Congestion/runny nose
-  Headache
-  Nausea/vomiting/diarrhea
-  Fatigue/muscle or body aches

High-risk: red flag symptoms

-  Cough
-  Difficulty breathing
-  Loss of taste/smell

Exposure to COVID-19 positive person?

Close contact: less than 6 feet, 15 minutes or longer



FAQ: Clearance for return to school, what if they refuse testing?

FAQ: Does a negative test after a COVID-19 exposure, shorten the quarantine from 14 to 10 days? NO

Testing and Recommendations for Isolation

PEDIATRIC

Testing for school-aged children

CDC recommendations

Symptomatic and

- close contact with confirmed or probable SARS-CoV-2
- increased likelihood for exposure

Asymptomatic and

- close contact with confirmed or probable SARS-CoV-2

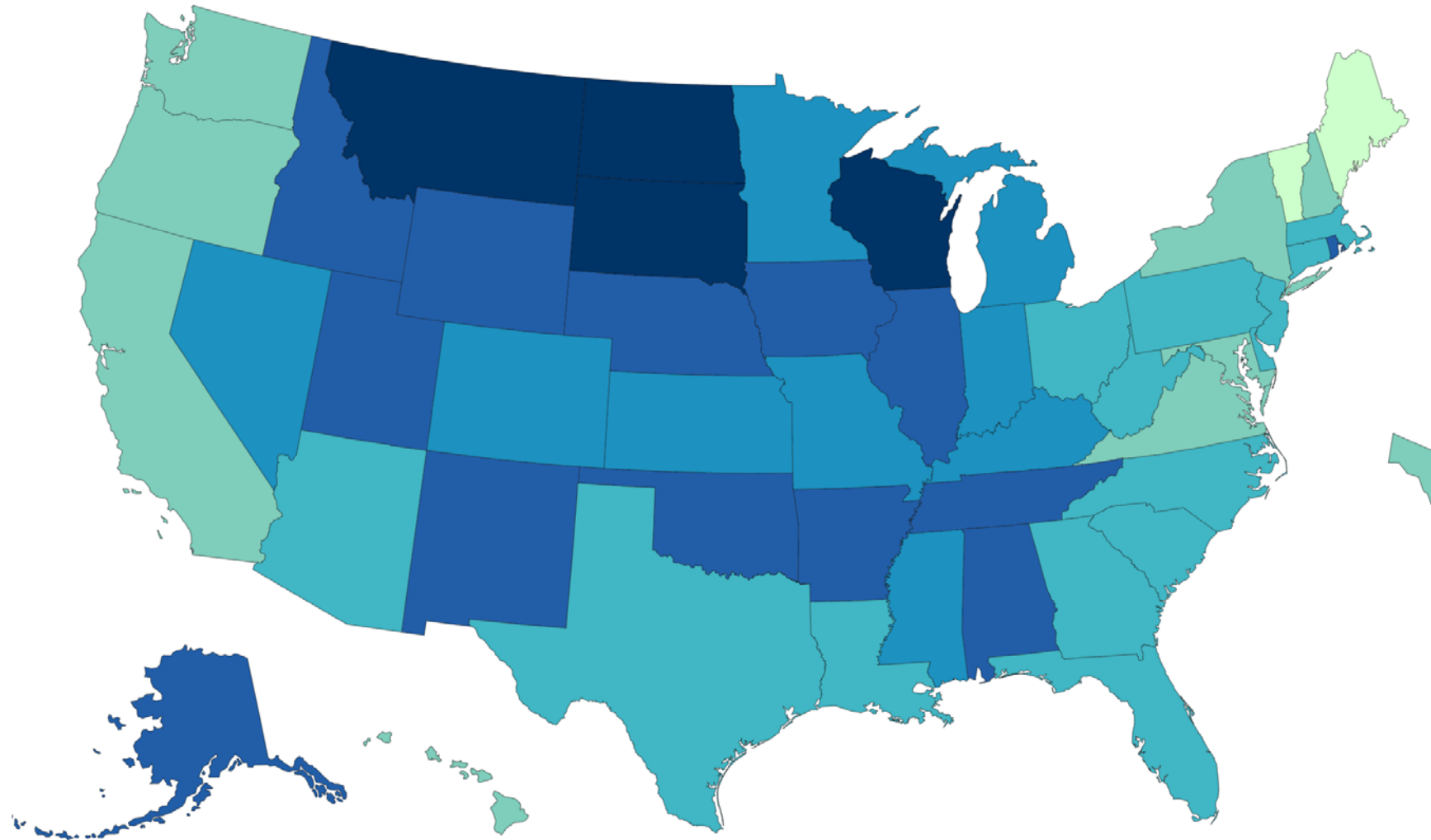
What counts as close contact?

- Contact within 6 feet of a COVID-19-positive person for 15 mins or more
- You provided care at home to someone who is sick with COVID-19
- You had direct physical contact with the person (hugged or kissed them)
- You shared eating or drinking utensils
- They sneezed, coughed, or somehow got respiratory droplets on you

What does increased
likelihood for exposure mean?

INDICATORS	Lowest risk of transmission in schools	Lower risk of transmission in schools	Moderate risk of transmission in schools	Higher risk of transmission in schools	Highest risk of transmission in schools
CORE INDICATORS					
Number of new cases per 100,000 persons within the last 14 days*	<5	5 to <20	20 to <50	50 to ≤ 200	>200
Percentage of RT-PCR tests that are positive during the last 14 days**	<3%	3% to <5%	5% to <8%	8% to ≤ 10%	>10%
<p>Ability of the school to implement 5 key mitigation strategies:</p> <ul style="list-style-type: none"> • Consistent and correct use of masks • Social distancing to the largest extent possible • Hand hygiene and respiratory etiquette • Cleaning and disinfection • Contact tracing in collaboration with local health department <p>Schools should adopt the additional mitigation measures outlined below to the extent possible, practical and feasible.</p>	Implemented all 5 strategies correctly and consistently	Implemented all 5 strategies correctly but inconsistently	Implemented 3-4 strategies correctly and consistently	Implemented 1-2 strategies correctly and consistently	Implemented no strategies

CDC indicators and thresholds for risk of introduction and transmission of COVID-19 in schools



Territories



Case in last 7 days per 100,000



THANK YOU

SLOW THE SPREAD OF COVID-19

[cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)



Wear a cloth face covering
in public spaces



Stay at least 6 feet
from other people



Frequently wash
your hands