



- 2143 pediatric patients
 - 731 (34.1%) lab confirmed cases
 - 1412 (65.9%) suspect cases
- Median age: 7 years
- Almost all (94.1%) had non-severe disease
 - 4.4% asymptomatic
 - 50.9% mild
 - 38.8% moderate
 - 5.2% severe
 - 0.6% critical

Dong Y, et al. Epidemiology of COVID-19 Among Children in China. Pediatrics. 2020;145(6):e20200702

Children's Mercy

COVID-19 Symptoms Adults

- King County Washington HCW
- Most developed fever, cough, myalgias
- 1/3 had diarrhea, chills, or shortness of breath
- 2/3 worked while symptomatic

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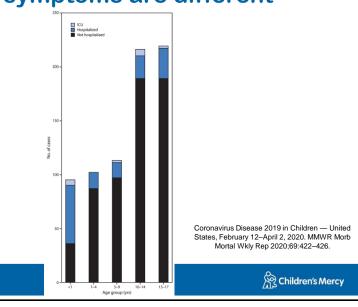
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	No. (%)				
	Total health care personnel (N = 48)	Onset with fever, cough, shortness of breath, or sore throat (n = 40 [83.3%])	Onset without fever, cough shortness of breath, or sore throat (n = 8 [16.7%])		
tial symptoms					
Cough	24 (50.0)	24 (60.0)	0		
Fever ^a	20 (41.7)	20 (50.0)	0		
Myalgias	17 (35.4)	15 (37.5)	2 (25.0)		
Headache	8 (16.7)	7 (17.5)	1 (12.5)		
Chills	7 (14.6)	5 (12.5)	2 (25.0)		
Sore throat	7 (14.6)	7 (17.5)	0		
Coryza	6 (12.5)	4 (10.0)	2 (25.0)		
Shortness of breath	5 (10.4)	5 (12.5)	0		
Malaise	5 (10.4)	3 (7.5)	2 (25.0)		
Diarrhea	3 (6.3)	3 (7.5)	0		
Voice hoarseness	2 (4.2)	1 (2.5)	1 (12.5)		
Anorexia	1 (2.1)	1 (2.5)	0		
Nausea/vomiting	1 (2.1)	1 (2.5)	0		
Abdominal pain	1 (2.1)	0	1 (12.5)		
mptoms over illness course					
Cough	42 (87.5)	36 (90.0)	6 (75.0)		
Fever ^a	36 (75.0)	32 (80.0)	4 (50.0)		
Myalgias	29 (60.4)	25 (62.5)	4 (50.0)		
Headache	20 (41.7)	17 (42.5)	3 (37.5)		
Chills	16 (33.3)	14 (35.0)	2 (25.0)		
Diarrhea	16 (33.3)	13 (32.5)	3 (37.5)		
Shortness of breath	15 (31.3)	13 (32.5)	2 (25.0)		
Malaise	14 (29.2)	9 (22.5)	5 (62.5)		
Sore throat	12 (25.0)	10 (25.0)	2 (25.0)		
Coryza	10 (20.8)	8 (20.0)	2 (25.0)		
Nausea/vomiting	8 (16.7)	6 (15.0)	2 (25.0)		
Anorexia	3 (6.3)	3 (7.5)	0		
Voice hoarseness	2 (4.2)	1 (2.5)	1 (12.5)		
Abdominal pain	1 (2.1)	0	1 (12.5)		
tcomes					
Hospitalized	3 (6.3)	3 (7.5)	0		
Intensive care unit admission	0	0	0		
Death	0	0	0		
orked while symptomatic ^b	31 (64.6)	27 (67.5)	4 (50.0)		
ys worked while symptomatic, edian (range)	2 (1-10)	2 (1-10)	2.5 (1-5)		
	2 (1-10)	10 (1-21)	4 (3-18)		

Chow E, et al. Symptom Screening at Illness Onset of HCP with SARS-CoV-2 Infection in King County, Washington. JAMA. ePub April 17, 2020.



	No. (%) with sign/symptom			
Sign/Symptom	Pediatric	Adult		
Fever, cough, or shortness of breath'	213 (73)	10,167 (93)		
Fever ^s	163 (56)	7,794 (71)		
Cough	158 (54)	8,775 (80]		
Shortness of breath	39 (13)	4,674 (43)		
Myalgia	66 (23)	6,713 (61)		
Runny nose [¶]	21 (7.2)	757 (6.9)		
Sore throat	71 (24)	3,795 (35)		
Headache	81 (28)	6,335 (58)		
Nausea/Vomiting	31 (11)	1,746 (16)		
Abdominal pain [¶]	17 (5.8)	1,329 (12)		
Diarrhea	37 (13)	3,353 (31)		



Prospective surveillance of symptomatic children demonstrated low COVID-19 rates

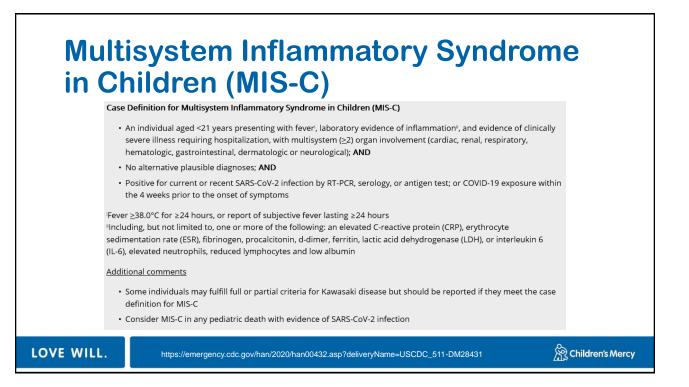
Site Location	Specimen Collection Date	All		
	Range *	Age range tested (yrs)	n/N (%) positive	
Rochester, NY	1/2/20-3/30/20	0-17	0/370 (0)	
Pittsburgh, PA	1/2/20-3/20/20	0-17	0/758 (0)	
Cincinnati, OH	2/1/20-3/31/20	0-17	1/302 (0.3)	
Nashville, TN	2/2/20-3/30/20	0-17	0/402 (0)	
Kansas City, MO	2/3/20-3/31/20	0-15	0/264 (0)	
Houston, TX	1/2/20-3/22/20	0-17	0/604 (0)	
Seattle, WA	1/1/20-3/31/20	0-16	3/487 (0.6)	
All sites	1/1/20-3/31/20	0-17	4/3187 (0.1)	

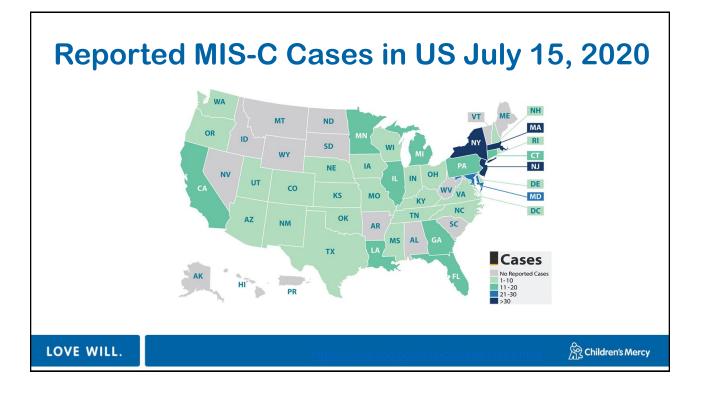
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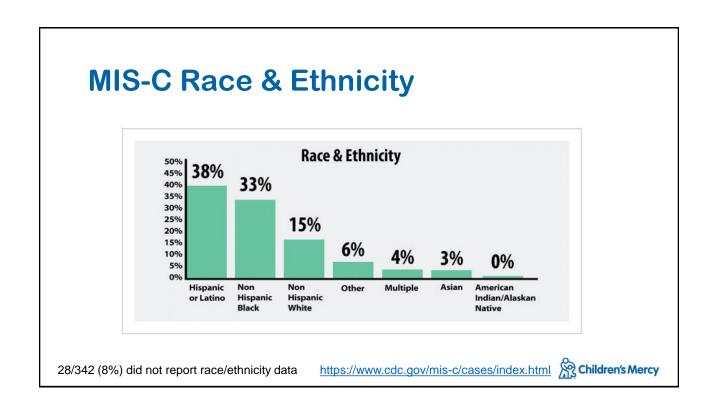
Rha B et al. SARS-CoV-2 Infections in Children- Multi-Center Surveillance, United States, January-March 2020. JPIDS. Epub June 19, 2020.

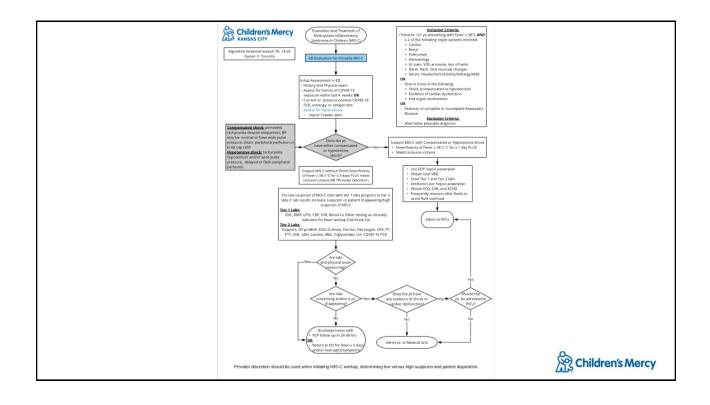
Children's Mercy

ontact	Rates of coronav	avirus disease among household and nonhousehold o		Nonhousehold	
acing of dults &	index patient age, y	No. contacts positive/no. contacts traced	% Positive (95% CI)	No. contact positive/no. contacts traced	% Positive (95% CI)
nildren	0-9	3/57	5.3 (1.3-13.7)	2/180	1.1 (0.2-3.6)
	10-19	43/231	18.6 (14.0-24.0)	2/226	0.9 (0.1-2.9)
South Korea	20-29	240/3,417	7.0 (6.2-7.9)	138/12,393	1.1 (0.9–1.3)
	30-39	143/1,229	11.6 (9.9–13.5)	70/7,407	0.9 (0.7–1.2)
	40-49	206/1,749	11.8 (10.3–13.4)	161/7,960	2.0 (1.7-2.3)
	50-59	300/2,045	14.7 (13.2-16.3)	166/9,308	1.8 (1.5-2.1)
	60-69	177/1,039	17.0 (14.8-19.4)	215/7,451	2.9 (2.5-3.3)
	70-79	86/477	18.0 (14.8-21.7)	92/1,912	4.8 (3.9-5.8)
	≥80	50/348	14.4 (11.0-18.4)	75/1,644	4.6 (3.6-5.7)
	Total	1.248/10.592	11.8 (11.2-12.4)	921/48,481	1.9 (1.8-2.0)









Summary

- Children represent a small portion of COVID-19 infections & typically have more mild symptoms than adults
- MIS-C is a rare multisystem inflammatory syndrome that occurs following COVID-19 infections with low mortality
- Most MIS-C cases have occurred in Latino & Black children
- Consider MIS-C in children who meet case definition
- Utilize tier 1 & 2 laboratory evaluation to aid in suspected diagnosis
- Refer any patient in which there is suspicion

