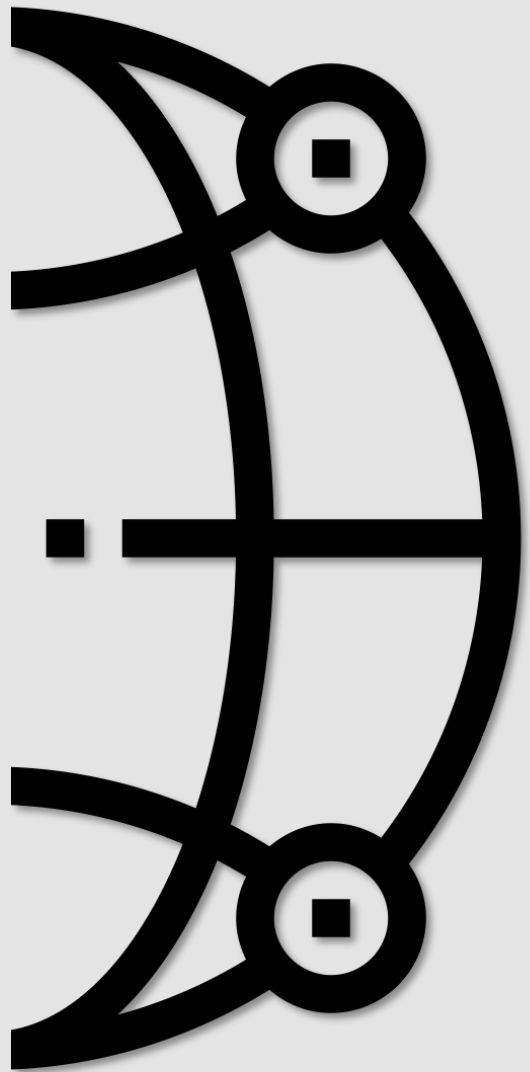


Multisystem Inflammatory Syndrome in Children Associated with COVID-19 in Washington State

January 12, 2023



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Publication Number

420-290

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Overview

This report contains information on cases reported through December 31, 2022.

Multisystem inflammatory syndrome in children (MIS-C) is a condition that causes inflammation in different body parts, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs. Children with MIS-C may have a fever and symptoms such as abdominal (gut) pain, vomiting, diarrhea, neck pain, rash, bloodshot eyes, or feeling extra tired. We do not yet know what causes MIS-C, but it is a syndrome associated with COVID-19. Children with MIS-C had the virus that causes COVID-19 or had been around someone with COVID-19.

The case definition of MIS-C is:

- Under the age of 21, with a fever, laboratory evidence of inflammation, and severe illness involving at least two organ systems that requires hospitalization; AND
- No other plausible diagnoses; AND
- Positive COVID-19 test (PCR, antigen, or serology) or exposure to a confirmed case within the four weeks prior to the onset of symptoms.

See the US Centers for Disease Control website for [national MIS-C case reporting](#).

Healthcare providers should report patients meeting MIS-C criteria to their [local public health agency](#).

In August 2022, Washington State Department of Health enhanced MIS-C surveillance by looking for potential cases in the Rapid Health Information Network (RHINO) database of healthcare visits. Previously, only direct reports from healthcare providers and facilities were available to us to help identify cases. Going forward, we will use both methods to identify potential MIS-C cases.

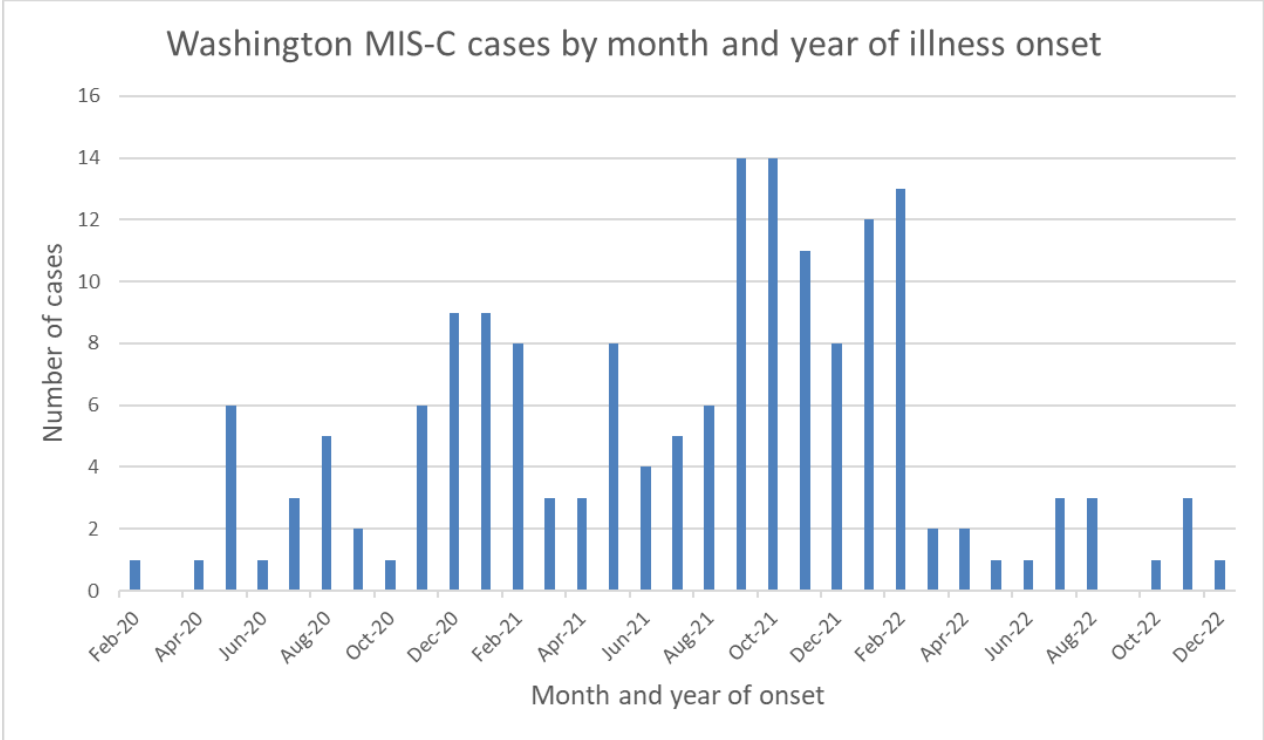
We monitor the vaccine status of all MIS-C cases. No MIS-C cases reported in Washington in 2020 or 2021 had received COVID vaccine. In 2022, six cases of MIS-C have been identified in children who had received COVID vaccine prior to the onset of their COVID-related illness. No deaths have occurred among children who had MIS-C.

Please note that the data presented in this report may change as we get additional information on cases.

Cases identified in Washington

A total of 170 confirmed cases of MIS-C have been identified in Washington as of December 31, 2022.

The chart below displays all MIS-C cases identified in Washington by month of illness onset.



The table below shows MIS-C cases in Washington by county of residence.

Table 1 MIS-C cases in WA by county

County in Washington	2020	2021	2022 YTD	Total
Asotin	0	0	1	1
Benton	0	2	1	3
Chelan	1	1	1	3
Clark	0	2	0	2
Cowlitz	0	1	0	1
Douglas	1	1	0	2
Franklin	2	5	1	8
Grant	0	6	1	7
Island	0	2	1	3
King	10	20	13	43
Kitsap	2	2	1	5
Kittitas	0	1	0	1
Lewis	2	0	0	2
Lincoln	0	0	1	1
Mason	1	0	0	1
Pend Oreille	0	0	1	1
Pierce	4	17	7	28
Skagit	2	0	1	3
Snohomish	5	8	5	18
Spokane	1	14	3	18
Stevens	0	1	0	1
Thurston	0	3	2	5
Whatcom	1	2	1	4
Yakima	3	5	1	9
Total	35	93	42	170

The table below shows MIS-C cases in Washington by patient ethnicity.

Table 2 MIS-C cases in WA by patient ethnicity

Patient ethnicity	Number of cases of MIS-C (percent)			
	2020	2021	2022 YTD	Total
Hispanic	15 (42.9%)	24 (25.8%)	4 (9.5%)	43 (25.3%)
Non-Hispanic	18 (51.4%)	62 (66.7%)	34 (81.0%)	114 (67.1%)
Unknown	2 (5.7%)	7 (7.5%)	4 (9.5%)	13 (7.6%)
Total	35 (100.0%)	93 (100.0%)	42 (100.0%)	170 (100.0%)

The table below shows MIS-C cases in Washington by patient race.

Table 3 MIS-C cases in WA by patient race

Patient race	Number of cases of MIS-C (percent)			
	2020	2021	2022 YTD	Total
American Indian and Alaska Native	1 (2.9%)	0	1 (2.4%)	2 (1.2%)
Asian	2 (5.7%)	4 (4.3%)	3 (7.1%)	9 (5.3%)
Black or African American	3 (8.6%)	15 (16.1%)	3 (7.1%)	21 (12.4%)
Native Hawaiian and Pacific Islander	2 (5.7%)	2 (2.2%)	0	4 (2.4%)
White	18 (51.4%)	36 (38.7%)	24 (57.1%)	78 (45.9%)
Other	2 (5.7%)	12 (12.9%)	2 (4.8%)	16 (9.4%)
Multiracial	0	5 (5.4%)	1 (2.4%)	6 (3.5%)
Unknown	7 (20.0%)	19 (20.4%)	8 (19.0%)	34 (20.0%)
Total	35 (100.0%)	93 (100.0%)	42 (100.0%)	170 (100.0%)

Ages of MIS-C cases in Washington range from 0-19 years (median 8 years, mean 8 years).
 The table below shows MIS-C cases in Washington by age range.

Table 4 MIS-C cases in WA by age range

Patient age range	Number of cases of MIS-C (percent)			
	2020	2021	2022 YTD	Total
0-9 years	19 (54.3%)	60 (64.5%)	31 (73.8%)	110 (64.7%)
10-20 years	16 (45.7%)	33 (35.5%)	11 (26.2%)	60 (35.3%)
Total	35 (100.0%)	93 (100.0%)	42 (100.0%)	170 (100.0%)

The table below shows MIS-C cases in Washington by patient sex at birth.

Table 5 MIS-C cases in WA by patient sex at birth

Patient sex at birth	Number of cases of MIS-C (percent)			
	2020	2021	2022 YTD	Total
Female	15 (42.9%)	46 (49.5%)	20 (47.6%)	81 (47.6%)
Male	20 (57.1%)	47 (50.5%)	22 (52.4%)	89 (52.4%)
Total	35 (100.0%)	93 (100.0%)	42 (100.0%)	170 (100.0%)

