

May 29, 2020

Dear Colleagues,

Re: Multisystem Inflammatory Syndrome – Children and Adolescents (MIS-C)

As COVID-19 continues to impact our population, clinical indicators are suggesting that cases in children and adolescents are milder than those in adults. However, current reports from Europe and North America are describing several children being admitted to hospital due to a health condition, Multisystem Inflammatory Syndrome in Children (MIS-C), which has features similar to Kawasaki Disease and toxic shock syndrome. In order to better understand this condition in Alberta, the Chief Medical Officer of Health has made this condition reportable, as of 27-May-2020. As such, all Alberta Physicians shall report cases that meet the case definition to the Zone Medical Officer of Health within 48 hours.

Preliminary Case Definition (27-May-2020):

Children and adolescents between the ages of 0-19 with fever > 3 days AND **two** of the following:

- a) Rash or bilateral non-purulent conjunctivitis or muco-cutaneous inflammation signs (oral, hands or feet)
 - b) Hypotension or shock
 - c) Features of myocardial dysfunction, or pericarditis, or valvulitis, or coronary abnormalities (ECHO findings or elevated Troponin/NT-proBNP)
 - d) Evidence of coagulopathy (abnormal PT, PTT, elevated d-Dimers)
 - e) Acute gastrointestinal problems (diarrhea, vomiting or abdominal pain) AND
- Elevated markers of inflammation, such as ESR, C-reactive protein or procalcitonin AND
 - No other obvious microbial cause of inflammation, including bacterial sepsis, staphylococcal or streptococcal shock syndromes

Further information about Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with Coronavirus Disease 2019 (COVID-19) can be found at <https://emergency.cdc.gov/han/2020/han00432.asp> or <https://www.who.int/news-room/commentaries/detail/multisystem-inflammatory-syndrome-in-children-and-adolescents-with-covid-19>

Information related to MIS-C in Alberta, and other notifiable conditions, can be found at: <https://www.alberta.ca/notifiable-disease-guidelines.aspx>. To report a possible MIS-C case, or to speak with a Medical Officer of Health – Edmonton Zone, please call 780-433-3940.

Christopher Sikora, MD MSc MPH CCFP FRCPC
Lead Medical Officer of Health – Edmonton Zone
Alberta Health Services