

Multisystem Inflammatory Syndrome in Children **Associated with SARS-CoV-2 Infection Case Report Form**



Patient parent/guardian telephone: Patient last name: Patient first name:

City: State: Zip code: **Patient address:**

Abstractor name: Facility name: Facility telephone: Date of abstraction:

| SECTION | 1 – MIS-C | INCLUSION | N CRITERIA |
|---------|-----------|-----------|------------|
| | | | |

- 1. Did the patient meet all inclusion criteria for case ascertainment? Yes No
 - Age <21 years 1.1
 - 1.2 Subjective or documented fever (≥38.0°C)
 - 1.3 Illness with clinical severity requiring hospitalization or resulting in death
 - 1.4 A more likely alternative diagnosis is not present
 - 1.5 C-reactive protein ≥3.0 mg/dL (30 mg/L)
 - 1.6 New onset manifestations in ≥2 of the following categories:
 - Cardiac involvement indicated by left ventricular ejection fraction <55%; coronary artery dilatation, aneurysm, or ectasia; or troponin elevated above laboratory normal range or indicated as elevated in a clinical note
 - 1.6.2 Mucocutaneous involvement indicated by rash, inflammation of the oral mucosa, conjunctivitis or conjunctival injection, or extremity findings
 - 1.6.3 Shock

2.12.2

MIS-C

- 1.6.4 Gastrointestinal involvement indicated by abdominal pain, vomiting, or diarrhea
- 1.6.5 Hematologic involvement indicated by platelet count <150,000 cells/µL or absolute lymphocyte count (ALC) <1,000 cells/µL
- 1.7 Meets laboratory criteria for SARS-CoV-2 infection or epidemiologic linkage criteria
 - Positive viral test (i.e., NAAT/PCR or antigen) during hospitalization or within 60 days prior 1.7.1
 - 1.7.2 Positive viral test (i.e., NAAT/PCR or antigen) in a post-mortem specimen
 - 1.7.3 Detection of SARS-CoV-2 specific antibodies associated with current illness
 - 1.7.4 Close contact with a confirmed or probable case of COVID-19 disease in the 60 days prior to hospitalization
- 1.8 Death certificate lists MIS-C as an underlying cause of death or a significant condition contributing to death

| <u>Patient</u> | Demographic | <u>es:</u> | | | |
|----------------|--|--|-------------|------------|---|
| 2.1 | State of Res | sidence: | - | | |
| 2.2 | Patient zip | code/postal code (primary residence): | _ | | |
| 2.3 | Date of birtl | n (MM/DD/YYYY): | | | |
| 2.4 | Age: | _ Months Days Years | | | |
| 2.5 | Sex: Ma | le Female | | | |
| 2.6 | Ethnicity: | Hispanic or Latino Not Hispanic or Latino | o Re | fused or U | nknown |
| 2.7 | Race (mark | all that apply, selecting more than one option as n | necessary): | | |
| | 2.7.1 Wh | ite | 2.7.5 | Asian | |
| | 2.7.2 Bla | ck or African American | 2.7.6 | Other R | Race |
| | 2.7.3 American Indian or Alaska Native | | 2.7.7 | Unknov | vn |
| | 2.7.4 Nat | tive Hawaiian or other Pacific Islander | | | |
| 2.8 | Height: | cm | | | |
| 2.9 | Weight: | kg | | | |
| 2.10 | BMI: | <u></u> | | | |
| <u>Underly</u> | ing condition | <u>s:</u> | | | |
| | 2.11.1 | No underlying medical conditions | | 2.11.6 | Cardiovascular condition |
| | 2.11.2 | Immunosuppressive disorder/malignancy | | 2.11.7 | Sickle cell disease |
| | 2.11.3 | Obesity | | 2.11.8 | Chronic lung disease (including asthma) |
| | 2.11.4 | Diabetes mellitus | | 2.11.9 | Other congenital malformations |
| | 2.11.4.1 | Type 1 | | 2.11.10 | Other, specify: |
| | 2.11.4.2 | Type 2 | | | |
| | 2.11.5 | Neurologic/neuromuscular or developmental co | ndition | | |
| Other n | nedical histor | <u>/:</u> | | | |
| 2.12 | Does the par | tient have a history of the following at least 90 da | ys prior to | developing | their current MIS-C illness? |
| | | | | | |

CS332819_A 10/3/2022 Page 1 of 3

Date of diagnosis (MM/DD/YYYY):

| OFOTIO | NO OL | INICAL CIONO AND OVERDIONS | | | |
|-----------|-------------------|---|---------------|--|--|
| | | INICAL SIGNS AND SYMPTOMS | | | |
| Illness I | | | | | |
| 3.1 | Did patie | ent have close contact with an individual with (| COVID-19 wit | ithin 60 days prior to hospitalization: Yes No | |
| | 3.1.1 If y | yes, first date of contact (MM/DD/YYYY): | | Date unknown | |
| 3.2 | Onset da | ate of symptoms that led to hospitalization for | MIS-C (MM/I | (DD/YYYY): | |
| 3.3. | Hospital | admission date (MM/DD/YYYY): | | | |
| | 3.3.1 | Number of days in the hospital: | | | |
| 3.4 | Admitted | d to the ICU? Yes No | | | |
| 3.5 | Patient of | outcome: Died Discharged S | till admitted | | |
| | 3.5.1 | Hospital discharge or death date (MM/DD/YY | YY): | | |
| 3.6 Sign | s and svr | nptoms associated with MIS-C illness | , | | |
| | 3.6.1 | Mucocutaneous | 3.6.3 | Respiratory | |
| | | Rash | | Cough | |
| | | Inflammation of oral mucosa | | Shortness of breath | |
| | | Conjunctival injection | 3.6.4 | Gastrointestinal | |
| | | Peripheral extremity changes | | Abdominal pain | |
| | 3.6.2 | Neurologic | | Vomiting | |
| | | Meningismus/meningeal signs Altered mental status | | Diarrhea | |
| | | Headache | 3.6.5 | Other | |
| | | | | Neck pain Chest pain/tightness | |
| | | | | Chest pain/tightness | |
| SECTIO | N 4 – LA | ABORATORY STUDIES | | | |
| 4.1 Lab | oratory St | tudies | | | |
| | 4.1.1 | Elevated troponin | | | |
| | 4.1.2 | Elevated BNP/NT-pro BNP | | | |
| | 4.1.3 | Elevated AST | | | |
| | 4.1.4 4.1.5 | Elevated ALT Elevated creatinine | | | |
| | 4.1.5 | Lievated Greatifilite | | | |
| 4.2 CSF | Studies | | | | |
| | 4.2.1 | White blood count: cells/mm³ or c | cells/µL | | |
| | 4.2.2 | Protein: mg/dL g/L | | | |
| | 4.2.3 | Glucose: mg/dL mmol/L | | | |
| 4.3 SAR | S-CoV-2 | testing during hospitalization for current MI | S-C illness: | | |
| | 4.3.1. | <u> </u> | Positive | Negative Not done | |
| | 4.3.1.1 | If performed, date (MM/DD/YYYY): | | | |
| | 4.3.1.2 | • | Anti-Nucleo | ocapsid Anti-Spike and Anti-Nucleocapsid Unknown | |
| | | | | | |
| | 4.3.2. | SARS CoV-2 Viral Test: Positive | Negative | Not done | |
| | 4.3.2.1 | • | | | |
| | 4.3.2.2 | 2 SARS CoV-2 test type: RT-PCR/N | TAAI | Antigen Unknown | |

If any studies from a particular type of imaging are abnormal during hospitalization, select "abnormal" for that imaging type. If all studies from a particular type of imaging are normal throughout hospitalization, select "normal" for that imaging type. Cardiac Imaging 5.1.1 Echocardiogram Normal Abnormal Not done 5.2 Chest Imaging 5.2.1 Chest X-ray Normal Abnormal Not done 5.2.2 Chest CT Normal Abnormal Not done 5.3 Abdominal Imaging 5.3.1 Abdominal ultrasound Normal Abnormal Not done 5.3.2 Abdominal X-ray Normal Abnormal Not done 5.3.3 Abdominal CT Abnormal Normal Not done Please indicate clinical findings identified during hospitalization for MIS-C illness. **Cardiac Complications** Myocarditis Coronary artery dilatation, ectasia, or aneurysm on cardiac imaging Left ventricular systolic dysfunction Lowest LV ejection fraction: <50% 50% to <55% Right ventricular systolic dysfunction Pericarditis/pericardial effusion Congestive heart failure Other cardiac complication, specify: _ 5.5 **Respiratory Complications** Acute respiratory distress syndrome (ARDS) Pneumonia Other respiratory complication, specify: 5.6 Hypotension or shock Hypotension Shock 5.7 **Gastrointestinal Complications** Appendicitis/inflamed appendix Cholecystitis/inflamed gallbladder Mesenteric adenitis Other abdominal complication, specify: _ 5.8 **Hematologic Complications** Thrombocytopenia (platelets <150.000 cells/uL) Lymphopenia (absolute lymphocyte count/ALC <1000 cells/µL) 5.9 Other Complications Meningitis/encephalitis Encephalopathy Other neurologic complication, specify: Retropharyngeal edema/phlegmon on head/neck ultrasound or CT Lymph nodes ≥1.5 cm on head/neck ultrasound or CT Other complication, specify: **SECTION 6 – CLINICAL MANAGEMENT** 6.1 Please indicate all treatments or medical interventions that the subject received for this illness. High-flow nasal cannula Steroids (e.g., prednisone, methylprednisolone) CPAP or BiPAP Immune modulators (e.g., anakinra, infliximab) Invasive mechanical ventilation (intubation) Dialysis or continuous renal replacement therapy (CRRT) **FCMO** First IVIG Vasoactive medications (e.g., epinephrine, milrinone, Second IVIG norepinephrine, or vasopressin) **SECTION 7 - COVID-19 VACCINE INFORMATION** Has the patient received a COVID-19 vaccine? 7.1 Yes Nο Unknown

SECTION 5 - IMAGING STUDIES AND COMPLICATIONS

| 7.2 | If yes, how many doses? | 1 dose | 2 doses | 3 or more doses | Unknown | |
|-----|-------------------------------|----------------|---------|-----------------|---------|--|
| 7.3 | Date vaccine dose(s) received | | | | | |
| | 7.3.1. Vaccine Dose 1 | Date (MM/DD/YY | YY): | Manufacturer: | | |
| | 7.3.2 Vaccine Dose 2 | Date (MM/DD/YY | YY): | Manufacturer: | | |
| | 7.3.3 Vaccine Dose 3 | Date (MM/DD/YY | YY): | Manufacturer: | | |
| | 7.3.4 Vaccine Dose 4 | Date (MM/DD/YY | YY): | Manufacturer: | | |
| | 7.3.5 Vaccine Dose 5 | Date (MM/DD/YY | YY): | Manufacturer: | | |