

# UNM PED MIS-C Laboratory Testing Guideline

Moderately to severely ill child or young adult with  $\geq 3$  days of daily fevers  $\geq 100.4^\circ\text{F}$

Is there concern for sepsis?

Yes

See sepsis pathway  
Consider MIS-C on differential

No

## Perform PED workup as indicated

Are there clinical features and clinical concern for MIS-C?

MIS-C Features	
Kawasaki Disease Features*	Conjunctivitis (limbus sparing), mucositis, rash, lymphadenopathy, extremity changes
Gastrointestinal	Abdominal pain, vomiting/diarrhea
Respiratory	Respiratory distress, cough, sore throat
Cardiovascular	Hypotension, syncope
Neurological	Headache, irritability, fussiness

Yes

Add to PED workup (only if not already obtained):

CBC with diff, CRP, ESR, CH10, LFT, UA

No

Does the patient have the following?

CRP  $> 3$  mg/dl or ESR  $> 40$  mm/hr

AND one of

Lymphopenia  $< 1000$   
Platelets  $< 150,000$  or  $> 450,000$   
Elevated neutrophil count  
Na  $< 135$   
Elevated creatinine  
Low albumin

Yes

MIS-C Labs (those not already ordered)  
Consults: Cardio and ID  
(Consult Heme-Onc if resp. distress, sepsis or PICU admit)  
Admit to PICU or Pediatrics

Report case

After PED workup, is there a clear explanation for the patient's symptoms other than COVID-19 (e.g., UTI, scarlet fever)?

No

Yes

Perform appropriate PED treatment & disposition

No

Perform appropriate PED treatment & disposition

Report case

If discharged: Ensure strict 24 hour follow up  
\*\*Have a low threshold for admission especially if resource limited or lives distant\*\*

Report Case:  
E-mail or Tiger Connect  
Dr. Martha Muller AND Dr. Anna Duran

**\* Remember: MIS-C lab set, cardiology & ID consults, and hospital admission are recommended for clinical features of KD regardless of duration of fever!**

## MIS-C Labs\*

- **Blood Culture**
- **CBC with Diff**
- **CH7, Mg, Phos**
- LFT
- Amylase
- Lipase
- LDH
- **CRP**
- ESR
- Lactate
- PT/PTT
- Fibrinogen
- D-dimer
- Troponin
- BNP
- Pro-BNP
- Ferritin
- CK
- Triglycerides
- **UA with culture**
- Procalcitonin
- EBV Panel
- CMV IgM/IgG
- RAPRPP
- SARS-CoV-2 IgM/IgG
- CXR
- EKG
- Rapid Strep (f sore throat)
- Peripheral Blood Smear
- Additional Red Top

**Bolded labs are pre-selected in the sepsis care set**

Ref: (2020) UNM and NM DOH Multi-inflammatory syndrome in Children (MIS-C) guideline, (2020) AAP Multisystem Inflammatory Syndrome in Children MIS-C Interim Guidance, (2020) Clinical Guidance for Pediatric Patients with Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with SARS-CoV-2 and Hyperinflammation in COVID-19, American College of Rheumatology.

Created 12/15/20; D Jolley MD, R Tuuri MD, M Muller MD, A Duran MD