

# UNM PED MIS-C Laboratory Testing Guideline

## \*MIS-C Expanded 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**

Moderate or severely ill child or young adult with  $\geq 3$  days of daily fevers  $\geq 100.4$  °F

Severe Illness or hypotension?

Yes

See sepsis pathway  
Include MIS-C Screening Labs and \*MIS-C Expanded Labs\* in the sepsis workup

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

Include in PED workup:  
RAPRPP & MIS-C Screening Labs

Is there a clear explanation for the patient's symptoms other than COVID-19? (e.g., UTI, influenza)

No

Does the patient have the following?

CRP > 10 mg/dl or ESR > 40 mm/hr

AND one of

- Lymphopenia < 1000
- Platelets < 150,000
- Sodium < 135
- Creatinine > 1.5 x baseline
- LFTs 2x upper limit for age
- Hypoalbuminemia

Yes

Add \*MIS-C Expanded Labs\*  
Admit to PICU or Pediatrics

Consult Cardiology if abnormal trop or BNP > 125 pg/mL  
Consult Heme/One if VTE or concerns w/VTE prophylaxis

No

Perform appropriate PED treatment & disposition  
Ensure 24-hour follow-up if discharged  
Consider admission if resource limited or lives distantly

Yes

No

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

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

Feldstein LR< Tenforde MW, Friedman KG, et al. Characteristics and Outcomes of US Children and Adolescents With Multisystem Inflammatory Syndrome in Children (MIS-C) Compared With Severe Acute COVID-19. *JAMA*. 2021;325(11):1074-1087. doi:10.1001/jama.2021.2091