

Kawasaki disease is an acute inflammatory vasculitis of medium sized arteries.

CLINICAL FEATURES OF TYPICAL KAWASAKI DISEASE

<u>Diagnostic criteria</u>: fever for \geq 5 days with \geq 4 out of 5 of the following features:

<u>C</u>onjunctivitis (bilateral, bulbar, nonpurulent)



Extremities Acute: palmar/plantar erythema and/or edema Subacute: periungual desguamation

<u>A</u>denopathy (cervical, ≥ 1.5 cm, unilateral) Mucosal changes (strawberry tongue, cracked and

) erythematous T lips, etc.) 🧲

Incomplete (atypical) Kawasaki disease: fever for \geq 5 days with \geq 2 of the above criteria. Assess for supplemental laboratory criteria.

OTHER POTENTIAL CLINICAL FINDINGS

Cardiovascular: coronary artery aneurysms, ↓ left ventricular function, pericarditis, myocarditis, mitral regurgitation, shock

Gastrointestinal: abdominal pain, diarrhea, nausea, vomiting

Neurological: irritability, facial nerve palsy, hearing loss

MSK: arthritis, arthralgia (pleocytosis of synovial fluid)



KD PHASES

- Acute: 1-2 weeks
- Subacute: 3-4 weeks
- Convalescent: 6-8 weeks

INVESTIGATIONS		LAB FINDINGS
 Basic labs: CBC+diff, lytes, Cr, CRP, ESR, ALT, albumin, urinalysis Transthoracic ECHO (rule out coronary artery aneurysms) at diagnosis and follow-up as indicated ECG (ST changes, pericarditis, myocarditis, etc.) 	 CXR (rule out pulmonary pathology, rule out cardiomegaly) Blood culture, if clinically indicated Other bacterial and viral testing as clinically indicated Multisystem inflammatory syndrome in children (MIS-C): above tests + COVID-19 PCR and serology, CK, ferritin, LDH, fibrinogen, D-dimer, PTT, INR, troponin, NT-proBNP 	 Anemia ↑ platelets ↑ WBC Hyponatremia ↑ CRP ↑ ESR ↑ liver enzymes ↓ albumin Sterile pyuria

TREATMENT

- Intravenous immunoglobulin (IVIG): 2g/kg x 1 dose, reassess after 24 hours, then consider a second dose.
 ✓ If available, consider sending COVID-19 serology prior to IVIG administration.
- ASA as per institutional guidelines until normal follow-up ECHO.

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COMPLICATIONS

Coronary artery aneurysms

- Untreated KD: 20-25%
 - Treated KD: 1-3 %

