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# The delicate balance of paediatric decision making: a case based presentation

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#### **History**



- Fever 6/7 •
- Reluctant to walk ullet
- **Reduced oral intake**
- Non-itchy rash 3/7 lacksquare
- Red lips and tongue 1/7 lacksquare
- Cough and runny nose



## **Examination Findings**



- Alert
- Vital signs: HR 138bpm, RR 30rpm, SpO2 99% RA, Temp 38.3C, CRT <2secs.</li>
- CVS: Well perfused. No murmurs.
- Resp: Chest clear, nil recession.
- Abdo: Soft and non-tender. No masses.
- ENT: L) TM pink and bulging.
- Skin: Widespread rash, erythema to palmer/planter surfaces
- MSK: Tender L) knee, limited ROM











#### Differentials



Likely Kawasaki Disease

- ? Rheumatic Fever
- ✤ ? Viral illness
- ? Septic Arthritis



#### Kawasaki Disease

Starship Child Health

- Vasculitis
  - $\circ$  Generally self limiting
  - $\,\circ\,$  Cardiac sequelae if untreated
- Etiology
  - $\circ$  Unknown
  - o ??autoimmune
- Epidemiology
  - $\,\circ\,$  Ethnicity: higher in Asian or Pacific Island children
  - $\circ\,$  More common in boys
  - o 90% cases <5years</p>





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### Clinical features of Kawasaki Disease

#### Fever for > 5 days

PLUS 4 out 5 further clinical features:

- Bilateral conjunctivitis
- Cervical lymphadenopathy
- Polymorphous rash
- Oral changes
- Changes to extremities



#### **Bilateral conjunctivitis**









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#### **Polymorphous rash**











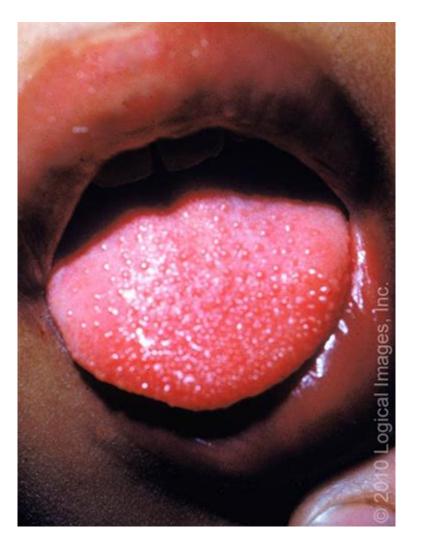




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#### **Oral changes – "strawberry tongue"**







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#### **Extremity changes**



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#### **Coronary aneurysms**



#### **Risk factors**

- Fever > 10/7 at presentation
- Significant lab findings
- Persisting fever/inflammation post IVIG
- Age <12/12 or >5yr
- Asian ethnicity
- Male
- Clinical signs of cardiac involvement









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Auckland District Health Board



• CXR - NAD

**Results** 

- ECG NAD
- $\uparrow$ WCC,  $\uparrow$ ESR,  $\uparrow$ CRP,  $\downarrow$ Albumin,  $\uparrow$ ALT
- Urine sterile pyuria
- +/- ECHO
- Throat swab



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#### Management



- Admission lacksquare
- IVIG lacksquare
- Aspirin •
- **Corticosteroids** lacksquare
- Follow up care lacksquare
- Defer live vaccines for 11/12 post IVIG •





#### **Questions???**

