

CPN Review: Infectious Disease Practice Questions

1. Two week old with fever:

- Concerns would be meningitis; sepsis
- Treatment recommendations: LP; cultures, blood, urine
- Likely organisms: e.coli, GBS, listeria, strep pneumonia, enterovirus
- Empirically start 3rd generation cephalosporin and ampicillin

2. Seven year old with fever 103:

- History: how is she feeling, any sick contacts, # of wet diapers, irritable but consolable vs. irritable but not consolable
- If exam normal, likely viral syndrome

3. Six month old with high fever for 3 days, normal exam, than rash:

- Roseola → herpes virus
- Symptomatic treatment

4. Seven year old with cough, coryza, conjunctivitis and rash

- Dx: measles
- Report to health department

5. Four year-old with 5 day history of fever

- Dx: Kawasaki disease- no clear etiology
- Dx by presence of 4/5 (plus 5 days of fever)
 - Conjunctival injections
 - Fissured lips +/- strawberry tongue +/- or red pharynx
 - Extremity edema
 - Rash
 - Cervical adenopathy

Treatment: IVIG +/- ASA, ECHO to r/o coronary aneurysm

6. Six-year old boy with fever, headache, sore throat, rash (feels like sandpaper):

- Diagnosis is scarlet fever, likely caused by Group A strep
- Treatment recommendations include starting antibiotics (amoxicillin or penicillin)

7. Nine year old with sore throat, fever of 101, minimal cervical node involvement:

- Diagnosis is likely adenovirus

- Could also be Group A strep
- Usually there are associated URI symptoms with viral pharyngitis

8. Fourteen year old with fever, malaise, headache, red tonsils and enlarged spleen:

- Diagnosis is mononucleosis (caused by Epstein-Barr virus)
- Treatment is symptomatic only
- Patient should be monitored for dehydration

9. Mother's question on use of antipyretics and concern about seizures:

- Febrile seizures occur with rapid rise in core temperature
- Parents are usually not aware of fever until seizure occurs
- Febrile seizures do not cause brain damage

10. Two year old with viral infection, mother wants antibiotics:

- Educate that antibiotics only treat bacterial infection
- Discuss the dangers of overuse of antibiotics when not indicated (namely, that the organisms develop resistance)