

Divine Intervention Episode 41

USMLE Antibiotic Guide

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Some PGY1

1

Newborn presenting with nuchal rigidity. Bug?
Treatment?

2

65 yo male presenting with nuchal rigidity, fever, and headache. Treatment?

3

33 yo F with no relevant PMH presenting with nuchal rigidity, headache, and fever. Treatment?

As an aside, how is hospital associated bacterial meningitis/post neurosurgical procedure bacterial meningitis managed?

4

Patient presents with headache, nuchal rigidity, and fever. LP reveals gram +ve diplococci and a neutrophilic predominance. In addition to the standard antibiotic therapy, how can patient morbidity and mortality be reduced?

5

HIV+ patient presents with a severe headache and nuchal rigidity. Papilledema is detected on a funduscopic exam. What will a lumbar puncture most likely reveal? How is this bug tested for? How is this bug treated? How is this bug treated after the fact? Coverage of bacterial meningitis in a HIV+ patient.

6

HIV prophylaxis for the following scenarios;

CD4 < 250 living in Arizona, CD4 < 200, CD4 < 150 living in Kentucky, CD4 < 100, CD4 < 50.

7

Patient on chemotherapy develops a fever. WBC count is 2000. What are the 2 bugs you're trying to cover? What is the empiric treatment strategy for this kind of fever?

8

HIV+ patient presents with seizures. MRI reveals multiple ring enhancing lesions in the brain.

Diagnosis? Treatment? When should this patient get steroids?

9

HIV+ patient presents with headache and nuchal rigidity. LP is +ve for CSF with 500 RBCs. MRI reveals hyperintense lesions in the temporal lobe. Bug? Treatment?

10

HIV+ patient presents with headache and nuchal rigidity. LP is +ve for CSF with lymphocytic pleocytosis. Brain imaging reveals enhancement at the base of the brain (or in “basilar cisterns”). Bug? Treatment?

11

Patient presents with a tender lesion on the left lower extremity. PE reveals a well circumscribed erythematous lesion on the calf. The patient's vital signs are wnl. Diagnosis? Empiric treatment?

12

Empiric management of animal/human bite wounds.

13

Empiric management of community acquired PNA.

Empiric management of hospital acquired PNA.

What if the Q stem mentions the presence of a
cavitary infiltrate?

14 (All from Boston)

Bulls eye rash in a 7 yo M. Treatment?

Bulls eye rash in a 30 yo F? Treatment

Bulls eye rash in a 35 yo pregnant female.
Treatment?

Management of meningitis and chest
pain/myocarditis in this patient population?

15

Patient from North Carolina presents to the ED with severe headache and a T of 104. PE reveals a rash on the palms and soles. Bug? Treatment in a 7 yo? Treatment in a 25 yo? Treatment in a 25 yo pregnant female?

16

A 23 yo nonpregnant female presents with suprapubic pain and increased urinary frequency, urgency, and burning with urination. Bug?

Treatment? CVA tenderness + signs of dysuria.

Treatment?

17

A 31 yo F presents with fever and uterine tenderness 2 days after a C-Section. Diagnosis? Treatment?

A 33 yo F is “in labor”. Her T is 102 and the fetal HR is 190 bpm. Diagnosis? Treatment?

18

Management of latent TB.

Management of active TB.

19

21 yo sexually active F with inconsistent condom use presents with a vaginal discharge OR cervical motion + adnexal tenderness. Bugs? Treatment (+ idiosyncrasy)?

Female with a fishy smelling, gray vaginal discharge (bug, tx). Female with a frothy green, foul smelling vaginal discharge (bug, pH, tx)? Cottage cheese discharge (bug, pH, tx)?

Classic presentation of aspergillosis. Tx? Tx of Allergic Bronchopulmonary Aspergillosis.

Management of candidal blood infections (+ oral candidiasis). Management of endemic fungal infections. Management of tinea infections.

Management of onychomycosis and tinea capitis.

Management of sporotrichosis (presentation, tx).

Mgt of invasive fungal infections?

21

Management of most stages of syphilis. Management of syphilis in PCN allergic patients. Mgt of syphilis in pregnant patients (+PCN allergy).

Mgt of most GI infections (diverticulitis, appendicitis, cholecystitis). Mgt of most causes of gastroenteritis.

Mgt of malaria. Most common prophylactic regimen for malaria. Killing hypnozoites. HY HIV med side effects.

22 (Empiric mgt)

Post antibiotic diarrhea. Bloody diarrhea + liver abscess. Watery diarrhea in an AIDS patient. Diarrhea in a “post transplant” patient. What causes “kidney infections” in post kidney transplant patients? PNA in a HIV+ patient with interstitial infiltrates on XR (+ steroid criteria)? Influenza (hr cutoff, tx)? Mastitis? General HIV regimen? Foul smelling diarrhea after drinking from a stream? Conjunctival injection after returning from Hawaii? Anthrax? Bug covered in osteomyelitis? MRSA, Pseudomonal coverage. Pertussis (+ close contact prophylaxis). Close contact meningitis prophylaxis? Otitis media/externa? Contact lens conjunctivitis/corneal ulcer?