Learning Objectives

INFECTIOUS DISEASES II

Antimicrobial Resistance.

1. Demonstrate an understanding of the common mechanism of resistance of gram-positive and -negative organisms.
2. Distinguish between qualitative and quantitative testing methods for antimicrobial resistance detection.
3. Resolve discrepancies between in vitro and in vivo resistance testing results and treatment options.
4. Assess patients at risk of infection from multidrug-resistant organisms.
5. Devise a treatment plan for a patient who presents with an infection from a multidrug-resistant organism.
6. Demonstrate an understanding of the prevention and control of antimicrobial-resistant organisms.

Invasive Fungal Infections.

1. Detect epidemiologic risk factors associated with recent invasive fungal infection outbreaks in patients without immunocompromise.
2. Judge whether current evidence supports a prophylactic versus preemptive antifungal therapeutic approach for managing invasive candidiasis in nonneutropenic patients.
3. Justify the frontline use of combination therapy for cryptococcal meningitis and invasive aspergillosis.
4. Develop an algorithm for therapeutic drug monitoring of antifungals.
5. Analyze the advantages of newer triazole antifungals and formulations.

Tuberculosis.

1. Develop a treatment plan for a patient with active tuberculosis.
2. Develop a treatment plan for a patient with latent tuberculosis.
3. Devise a management plan for drug interactions with tuberculosis treatment.
4. Devise a management plan for adverse drug reactions with tuberculosis treatment.