LEARNING OBJECTIVES

On completion of the chapter, the reader will be able to:

1. Define the differences between uncomplicated and complicated urinary tract infections (UTIs).
2. Identify the most common organisms that cause UTIs.
3. Describe the various routes in which bacteria enter the urinary tract and cause infection.
4. Discuss how host defense mechanisms and bacterial virulence factors play a role in the development of UTIs.
5. Describe the clinical presentation of lower and upper UTIs.
6. Evaluate the various laboratory tests utilized in the diagnosis of UTIs.
7. Select an appropriate antimicrobial regimen for the treatment of uncomplicated and complicated UTIs.
8. Analyze antimicrobial regimens for appropriateness given varied antibiotic resistance.
9. Develop a monitoring plan for a treatment regimen utilizing the goals of therapy in the treatment of UTIs.
10. Select an appropriate antimicrobial regimen for patients with acute pyelonephritis.
11. Describe how UTIs in males differ from UTIs in females.
12. Select appropriate treatment or prophylaxis in patients with recurrent UTIs.
13. Design appropriate antimicrobial treatment of UTIs in special patient populations such as pregnant females.
14. Classify bacterial prostatitis as acute or chronic and choose appropriate antimicrobial treatment and/or prophylaxis.
15. Evaluate the patient-centered considerations in the treatment of UTIs in the selection of antimicrobial therapy.