LEARNING OBJECTIVES

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

1. Identify the most common causes of chronic kidney disease (CKD) in the United States.
2. Discuss the current screening recommendations for diabetic kidney disease.
3. Describe the typical clinical presentation of a patient with advanced CKD including subjective and objective findings.
4. Apply nonpharmacologic and pharmacologic treatments to address risk factors for progression of CKD.
5. Describe the association between decreased kidney function (decreased glomerular filtration rate) and development of secondary complications.
6. Select appropriate therapy for CKD progression and secondary complications that is individualized for the patient based on patient-specific data and factors that affect response to pharmacologic therapy.
7. Recommend an appropriate regimen for management of anemia of CKD incorporating iron supplementation and the available erythropoietic-stimulating agents (ESAs) in individuals with CKD.
8. Explain the pathophysiology of CKD-related mineral and bone disorder (CKD-MBD), and design an appropriate treatment regimen including phosphate-binding agents, vitamin D supplementation, and cinacalcet as appropriate based on the stage of CKD and goals of therapy.
10. Discuss the importance of regular patient education to the success of managing CKD progression and the associated secondary complications.