Chapter 82:

LEARNING OBJECTIVES

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

1. Describe the hemoglobin abnormality in sickle cell disease (SCD).
2. Discuss the pathophysiology of SCD.
3. Discuss the role of newborn screening in SCD.
4. List the clinical presentations of SCD.
5. Describe the characteristics of acute and chronic complications in SCD.
6. Recommend the appropriate immunization schedule and recognize patients who are not up-to-date on immunization.
7. Recognize individuals who require penicillin prophylaxis.
8. Discuss the rationale of using HbF inducers in the management of SCD.
9. Determine the appropriate hydroxyurea regimen and monitoring requirements.
10. Discuss the role of transplantation in SCD.
11. Discuss the risks and benefits of chronic transfusions.
12. Select the appropriate empiric antibiotics for patients with SCD presented with fever.
13. Formulate plans for management of cute chest syndrome, priapism, and sickle cell pain episodes.
14. Design a pain management regimen for patients presented with pain episodes in both hospitalized and outpatient settings.
15. Discuss the pharmacoeconomic impact of SCD.
16. Understand the potential of developing genome-based drug therapy in SCD.