Chapter 10 Objectives: The Hemoglobinopathies

Learning Objectives

At the end of this unit, the student will be able to:

1. Define hemoglobinopathy.
2. Explain the basis of defects resulting in production of abnormal hemoglobins.
3. Identify the globin chain defects causing SCA and hemoglobin C disease.
4. Name the amino acid substitution in sickle cell anemia.
5. List characteristics of sickle cell trait.
6. List laboratory tests useful in the diagnosis of sickle cell disease.
7. Name the amino acid substitution found in Hemoglobin C disease and list characteristics of the disease.
8. Identify the laboratory test that helps in providing a diagnosis for Hemoglobin SC disease.
9. Identify the hemoglobin concentration which results in sickle cell disease.
10. State the type of anemia seen in sickle cell disease.
11. Recognize populations affected by the various types of hemoglobinopathies.