Chapter 21: Introduction to Hematopoietic Neoplasms

Learning Objectives

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

1. Define leukemia.
2. Define neoplasms.
3. Differentiate between malignant and benign neoplasms.
4. Compare the terms leukemia and lymphoma.
5. Discuss the variations in incidence of leukemia in different racial, ethnic and age groups.
6. Name and describe the classification systems used for the MDS, MPD and the leukemias.
7. Compare and contrast the laboratory findings in acute and chronic leukemias.
8. Define oncogene.
9. List two factors in oncogene activation.
10. Discuss how leukemias arise.
11. Correlate patient age to the overall incidence of hematopoietic neoplasms.
12. List 5 cytochemical stains used to differentiate leukemias, their site of action, typical staining pattern and the cells identified by each.
14. Explain the diagnostic value of immunologic marker studies and cytogenetics in regard to leukemia.
15. List the three modes of treatment for acute leukemia.