Myeloproliferative Disorders
Learning Objectives

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

1. Explain the etiology of the myeloproliferative disorders (MDSs).
2. List common clinical findings of myeloproliferative Disorders.
3. List general features of chronic myelogenous leukemia (CML).
4. Identify the chromosomal abnormality found in CML.
5. Describe the typical peripheral blood smear of a patient with CML.
6. List the special stain and its staining pattern used to distinguish a leukemoid reaction from CML.
7. Define Polycythemia.
8. Identify the stem cell disorder found in Polycythemia vera (PV).
9. Identify the hallmark laboratory finding used to diagnose PV.
10. Describe the treatment for PV.
11. Differentiate between PV and secondary polycythemia.
12. List two (2) causes of secondary polycythemia.
13. Describe the pathogenesis of relative polycythemia.
15. State the abnormal range of platelet count associated with ET.

16. Describe the peripheral blood smear of a patient with ET.

17. Describe the characteristics found in Primary Myelofibrosis (PMF).

18. Identify the predominant abnormal erythrocyte morphology associated with PMF.

19. Define a “dry trap”.