Description: This module focuses advanced concepts of Cellular Regulation. Emphasis is placed on factors affecting reproduction, proliferation, & alteration of cellular growth as seen in Sickle Cell Anemia and the adult and pediatric Leukemia.

Learning Outcomes:

Upon completion this module the student will be able to:

1. Review factors affecting reproduction, proliferation, and alteration of cellular growth.
2. Assess client’s alterations in cellular regulation through health history and physical exam as they relate to cellular regulation as seen in exemplars such as Sickle Cell Anemia and Leukemia.
3. Describe alterations in client’s diagnostic and laboratory test as related to cellular regulation as seen in exemplars such as Sickle Cell Anemia and Leukemia.
4. Identify appropriate nursing diagnoses utilized in the care of the client with problems with cellular regulation problems such as Sickle Cell Anemia and Leukemia.
5. Identify appropriate nursing interventions including rationale that will promote optimal health in the client with cellular regulation disorders such as Sickle Cell Anemia and Leukemia.
6. Evaluate the care of the client with problems of cellular regulation.

Learning Resources:

Text: School Appropriate Text reading assignment

Website: www.lls.org
www.sicklecelldisease.org

Article: Search for a current (less than 5 year) article on nursing care of the client with Sickle Cell Anemia or one of the adult or pediatric Leukemia.

Guest: Have a client/family with Sickle Cell or Leukemia come and present

Case Study: Pain management or prevention of opportunistic infection

Learning Activities:

1. Do either the Leukemia or Sickle Cell Anemia assignment.
2. Article critique due on ______.
   a. Attach article
   b. Discuss nursing implications of article as it relates to content within the text.
   c. What impact will this article have on your future practice
3. Case study presentation class room or simulation pain management which could be related to any cellular alteration disease process based on lab data and history presented.

**Evaluation:**

1. Unit test on Cellular Regulation
2. Final exam questions
3. Completion of web assignment
4. Completion of article critique
5. Successful completion of case study/scenario