|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Outline | Reading AssignChapter in McKinzie | Lecture Quest | Lab | Quiz or test |
| Sept 4 | Intro, Hematopoiesis ( Bone Marrow structure and function, other organs of hematopoiesis | 1&4 |  | Lab Safety, microscope use and specimen collection |  |
| Sept9 | Hematopoiesis continued (derivation of blood cells, cell maturation, reproduction and nomenclature) | 2&3 | 1&2 | Estimated leukocyte and platelet counts |  Practical - Microscope |
| Sept 11 | Erythrocytes ( Maturation, structure, metabolism, kinetics, regulation, function, testing, reference intervals, and variations) | 5&6 | 3&4 | Manual Counts | Lecture Quiz 1- hematopoiesis |
| Sept 16 | Hemoglobin (structure, synthesis, ontology, regulation, function, & erythrocyte destruction) | 6 |  | Hemoglobin, hematocrit, sedimentation rate | Practical – Manual counts |
| Sept 18 | Leukocytes (Neutrophils, eosinophils, basophiles, maturation, function, and kinetics) | 7 | Leukocyte | Make and stain blood slides |  |
| Sept 23 | Off |
| Sept 25 | Leukocytes (lymphocytes, monocytes/Macrophages, plasma cells and megakaryocytes |  |  | Counting differentials | Lecture Quiz 2- erythrocytes |
| Sept 30 | Normal peripheral smear and routine hematology procedures | 34&36 | 5 | Counting differentials |  |
| Oct2 | Erythrocyte disorders (Anemia: general aspects and classification, use of indices and reticulocyte count, bone marrow examination) | 8 | 6 | Counting Differentials |  |
| Oct 7 | Erythrocyte disorders (red cell changes in disease) |  |  | Counting Differentials | Lecture Quiz 3-hemoglobin and leukocytes |
| Oct 9 | Iron metabolism, Anemia of abnormal iron metabolism (iron deficiency anemia, sideroblastic anemia | 9 | 7 | Counting Differentials | Lecture Test 1Practical – Making slides and counting them |
| Oct 14 |  |
| Oct 16 | Macrocytic Anemia (Megaloblastic: Vitamin B12, and Folic Acid; Macrocytic anemia: liver disease, alcoholism, stimulated erythropoiesis) | 12 | 8 | Red cell morphology | Lecture Quiz 4 – Peripheral smear and erythrocyte disorders |
| Oct23 | Hemolytic anemia (intracorpuscular: membrane and enzyme disorders) | 14,15,16 | 9 | Red cell morphology |  |
| Oct 28 | Hemolytic Anemia (extracorpuscular) | 17&18 |  | Red cell indices | Practical 4 – Red Cell Morphology |
| Oct30 | Hemoglobinopathies Thalassemia | 10&11 | 10&11 | Instruments | Lecture Quiz 5 – Iron Metabolism and Megaloblastic AnemiaPractical 5 - Indices | 10 | 10 | Instruments | Lecture Quiz 5 – Iron Metabolism and Megaloblastic Anemias |
| Nov4 | Hypoproliferative Anemia | 13 | 12 | Center for Family Medicine | Lecture Quiz 6 – Hemolytic Anemia, Hemoglobinopathies, and Thalassemia |
| Nov6 | Nonmalignant Granulocytic Disorders | 19 | 13 | Bone Marrow |  |
| Nov11 | Nonmalignant Granulocytic disorders continued |  |  | Abnormal Slides | Practical 6 – Instruments and Bone Marrow |
| Nov 13 | Nonmalignant Lymphocytic Disorders | 20 | 14 | Abnormal Slides | Lecture Test 2 – Peripheral smear through Thalassemia |
| Nov 18 | Flow Cell and Hematopoietic Neoplasms | 21&37 | 15 | Abnormal Slides | Lecture Quiz 7 – Nonmalignant granulocytes and lymphocytes |
| Nov 20 | Acute Leukemia | 24&25 | 16 | Quality Control |  |
| Nov 25 | MyeloproliferativeDisorders | 22 | 17 | Reticulocyte Counts | Practical 7 – Abnormal Slides | 22 | 17 | Counts Reticulocyte | Practical 7 – Abnormal Slides |
| Nov 27 | Myelodysplastic Disorders | 23 | 18 | Coagulation | Lecture Quiz 8 – Neoplastic, Flow Cell and Acute Leukemia |
| Dec 2 | Lymphoid Leukemia | 26 | 19 | Coagulation | Practical 8 – Reticulocyte Counts |
| Dec4 | Coagulation | 29,30&40 | 20 | Case Studies | Lecture Quiz 9 – Acute Leukemia & myeloproliferative DisordersPractical 9 - Coagulation |
| Dec9 | Review and Projects |  |  | Review | Lecture Quiz 10 – Myelodysplastic, Lymphoid Leukemia & CoagulationPractical Final |
| Dec 11 | Review and Projects |  |  |  | Final |
|  |  |  |  |  |  |

\*MAY BE SUBJECT TO CHANGE