



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Allied Medical Sciences Department

LM354 Diagnostic Hematopathology (2) - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This course is the second course in the MLS curriculum concerned with hematological disorders. The course will provide students with a vista of the common hematological abnormalities and disorders of leukocytes with a major emphasis on the etiology, pathogenicity, clinical features, and diagnostic approach of these disorders. Most of the course will focus on malignant disorders including Leukemia, Myeloproliferative disorders, and myelodysplastic syndrome. The course will also cover hemostatic disorders including quantitative and qualitative disorders of platelets as well as coagulopathies.

Teaching Method: On Campus

Text Book

Title	Hematology: Clinical principles and applications
Author(s)	Bernadette F. Rodak, George A. Fritsma and Kathryn Doig
Edition	5th Edition
Short Name	Ref #1
Other Information	

Instructor

Name	Dr. Jehad Alhmoud
Office Location	-
Office Hours	
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Class Schedule & Room

Section 1:

Lecture Time: Sun, Tue : 08:30 - 09:30

Room: NB49

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Review leukocytes and disorders classification	Handout From Ref #1
Week 2	Benign quantitative leukocyte disorders	29 From Ref #1
Week 3	Leukemia (I): Etiology, pathogenesis and clinical features	Handout From Ref #1
Week 4	Leukemia (II): Acute leukemia	35 From Ref #1
Week 5	Leukemia (III): Acute leukemia	35 From Ref #1
Week 6	Leukemia (IV): Chronic Lymphoid Leukemia	36 From Ref #1
Weeks 7, 8	Myeloproliferative Disorders	33 From Ref #1
Weeks 9, 10	Myelodysplastic syndromes MDS	34 From Ref #1
Week 11	Lymphomas	Handout From Ref #1
Weeks 12, 13	Plasma cell disorders: Multiple Myeloma	Handout From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To classify benign and malignant leukocyte disorders [1SLO1] [1L7K1]	20%	
To understand the etiology, pathogenesis, clinical presentation, and prognosis of leukocyte malignancies [1SLO2] [1L7K1]	20%	
To become familiar with the differential diagnostic approach for the diagnosis of malignant disorders including routine examination and specialized technical approach [1SLO3] [1L7S1]	30%	
Explain hemostatic disorders including platelet disease and coagulopathies regarding etiology, pathogenesis, and clinical features as well as the routine and specialized diagnostic approaches [1SLO2, 1SLO3] [1L7K1, 1L7S1, 1L7S2]	20%	
To correlate the clinical aspects of the disease with diagnostic and prognostic issues [1SLO6] [1L7S3, 1L7C4]	10%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
20	30	40			10						

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C4
46.67	36.67	6.67	5	5

Date Printed: 2024-02-23