האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Introduction to Clinical Medicine - Interaction between Systems - Part A - 96320

Last update 10-03-2025

HU Credits: *12*

Degree/Cycle: *1st degree (Bachelor)*

Responsible Department: *Medicine*

Academic year: *0*

Semester: *2nd Semester*

Teaching Languages: *Hebrew*

Campus: *Ein Karem*

Course/Module Coordinator: *Dr.RIBAK YAARIT*

Coordinator Email: *yaaritr@hadassah.org.il*

Coordinator Office Hours: *By appointment*

Teaching Staff:
Dr. Batia Avni,
Prof. Neville Berkman,
Dr. Benson Ariel,
Prof. Avivit Cahn,
Dr. Ittamar Gork,
Dr. Tal Hasin,
Dr. Yaarit Ribak,
Dr. Hila Elinav

Course/Module description:
The goals of the course are to provide the students with an understanding of the clinical approach to the different diseases and different systems. The course deals with the following topics:
1. Approach to benign and malignant hematologic diseases
2. Approach to cardiovascular disease
3. Approach to diseases of the lungs
4. Approach to diseases of the gastrointestinal track and liver
5. Approach to specific infectious diseases
6. Approach to kidney diseases
7. Approach to systemic joint diseases
8. Approach to endocrine diseases
9. Approach to immunology and allergy

Course/Module aims:
Our goal is to teach the clinical approach to various diseases and systems.

Learning outcomes - On successful completion of this module, students should be able to:
At the end of the course, the student should be able to:
1. Master the clinical approach to patients with anemia, coagulation disorders, benign diseases of the neutrophil, splenomegaly and lymphadenopathy, malignant hematologic diseases, bone marrow transplantation, infections in neutropenic patients, oral medicine in immune suppressed patients, identification of normal and pathological cells on blood smear.
2. Master the clinical approach to cardiac rhythm disorders, hemodynamics, angina pectoris, myocardial infarction, cardiac valvular diseases, cardiac rehabilitation, invasive treatments, cardiomyopathy, heart failure, EKG.
3. Master the clinical approach to obstructive and interstitial lung disease, lung infections, pulmonary embolism, pulmonary hypertension, pleural effusion, cough,

lung tumors, respiratory sleep disorders, lung transplant, chest imaging, lung function tests.
4. Master the clinical approach to abdominal pain, problems swallowing, malabsorption, gastrointestinal aspects of systemic diseases, abnormalities in liver function, acute liver failure, gastrointestinal bleeding, diseases of the biliary system, liver lesions, diseased of liver vascular system, cholestatic and autoimmune diseases, cirrhosis and its causes, metabolic liver disease, liver transplant.
5. Master the clinical approach to antibiotics, viral diseases, sterilization, zoonotic diseases.
6. Master the clinical approach to acid base balance, electrolyte balance, hypertension, chronic and acute renal failure, dialysis, kidney transplantation, glomerular diseases.
7. Master the clinical approach to rheumatoid joint disease, lupus, antiphospholipid syndrome, arthritis, spondiloarthropathies, scleroderma, vasculitis, FMS, Behcet, inflammatory muscle diseases and fibromyalgia.
8. Master the clinical approach to diabetes, diseases of the pituitary and adrenal, tumors of the thyroid, thyroid hyper- and hypofunction, parathyroid disease and osteoporosis.
9. Master the clinical approach to adult immunodeficiency, eosinophilia and allergic reaction.

Attendance requirements(%):
Frontal lectures- 100%
Workshops- 100%

Teaching arrangement and method of instruction: Frontal lectures, computerized lectures, Workshops in small groups.

Course/Module Content:
1. Hematologic system: Anemia, coagulation disorders, benign diseases of the neutrophils, splenomegaly and lymphadenopathy, malignant hematologic diseases, bone marrow transplantation, anti-fungal medications, infections in the neutropenic patient, oral disease in the immune deficient patient, blood smears.
2. Cardiovascular system: Cardiac rhythm disorders, hemodynamics, angina pectoris, myocardial infarction, cardiac valvular diseases, cardiac rehabilitation, invasive treatments, cardiomyopathies, heart failure, EKG.
3. Pulmonary system: obstructive and interstitial lung disease, lung infections, pulmonary embolism, pulmonary hypertension, pleural effusion, cough, lung tumors, respiratory sleep disorders, lung transplant, chest imaging, lung function tests.
4. Gastrointestinal system: abdominal pain, problems swallowing, malabsorption,

gastrointestinal aspects of systemic diseases, abnormalities in liver function, acute liver failure, gastrointestinal bleeding, diseases of the biliary system, liver lesions, diseases of liver vascular system, cholestatic and autoimmune diseases, cirrhosis and its causes, metabolic liver disease, liver transplant, history and physical examination of the abdomen.
5. Infectious diseases: antibiotics, viral diseases, sterilization, zoonotic diseases.
6. Nephrology: acid base balance, electrolyte balance, hypertension, chronic and acute renal failure, dialysis, kidney transplantation, glomerular diseases.
7. Rheumatology: rheumatoid joint disease, lupus, antiphospholipid syndrome, arthritis, spondiloarthropathies, scleroderma, vasculitis, FMS, Behcet, inflammatory muscle diseases and fibromyalgia.
8. Endocrinology: diabetes, diseases of the pituitary and adrenal, tumors of the thyroid, thyroid hyper- and hypofunction, parathyroid disease and osteoporosis
9. Immunology and allergy - immunodeficiency, eosinophilia and allergic reaction

Required Reading:
Relevant chapters in the latest edition of "Harrison's principles of internal medicine".

Additional Reading Material:

Grading Scheme:
Computerized Exam - At the cluster % 80
Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 20 %

Additional information:
The final exam is 80% of the course grade.
Attendance requirement at all workshops. it is obligatory to pass all tests and assignments. It is not possible to get a grade in the course without participating in all the workshops and without passing all the exams separately.
Test scores and assignments will be 20% of the final grade.