

**ISTANBUL OKAN UNIVERSITY**

**FACULTY OF MEDICINE**

**MED420**

**INTERNAL MEDICINE AND CARDIOLOGY**

**COURSE PROGRAM**

**LECTURERS**

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**MED420 Internal Medicine (11 credit)**

Aim of the Course

The purpose of this course is to gain information on the internal medicine, cardiology and related skills of internal medicine clinics. This rotation theoretical battery is in line with the previously given clinical course information; to synthesize, update and consolidate the internal medicine information obtained from different branches, teach and practice history taking and basic physical exam rules in the clinic, ensure that the students can formulate an appropriate differential diagnosis and effective treatment plans, teach how to reach necessary resources to combine the symptoms and clinical findings.

This rotation aims to improve student’s understanding of the essentials of basic clinical cardiology and cardiovascular conditions such as acute coronary syndromes, heart failures, arrhythmias, hypertension, dyslipidemia and peripheral vascular diseases. Students will also be exposed to a wide-range of noninvasive and invasive cardiac tests, and procedures in the evaluation and management of patients with known or suspected cardiovascular diseases. *Prerequisites: MED301, MED302, MED303, MED304, MED305, MED306, MED307 and For foreign students; pass The Turkish Language Exam.*

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Learning Objectives

At the end of this course the student will be able to:

* To develop the physical examination and clinical skills required of a medical student in general internal medicine practice, including the ability interpret information relative to normal and abnormal structure, function and physiology.
* To apply historical and clinical information for problems solving to advance the health of the patient.
* To develop the psycho-social and communication skills and competencies that are required to communicate with, and treat a wide diversity of patients in acute, outpatient and institutional settings.
* To develop the ability to research medical literature and scientific resources for information that affects the patient’s condition, treatment and outcomes and the ability to evaluate and apply scientifically valid information to maximize the outcome of the patient.
* Performing a physical examination for a patient in a logical, organized, respectful, and thorough manner, giving attention to the patient’s general appearance, vital signs, and pertinent body regions.
* Gain the necessary clinical skills in general cardiology practice
* Develop the psycho-social and communication skills and competencies that are required to communicate with, and treat a wide diversity of patients in acute, outpatient and institutional settings.
* Develop the ability to research medical literature and scientific resources for information that affects the patient’s condition, treatment and outcomes and the ability to evaluate and apply scientifically valid information to maximize the outcome of the patient.
* Conduct a cardiology history and a cardiovascular physical examination
* Assess patients with coronary artery disease, hypertension, cardiac arrhythmias, and congestive heart failure
* Demonstrate proficiency in the following: recording the electrocardiogram, venipuncture, intravenous therapy
* Demonstrate skill in medical record keeping by recording the case histories of inpatients and writing progress notes at an appropriate frequency.
* Explain the diagnosis and treatment of cardiovascular diseases.
* To develop skills in verbal presentation by presenting cases at ward rounds, in the clinic and on occasion at formal teaching conferences.

Course Content

RHEUMOTOLOGY

1. Medical history and examination in rheumatology
2. Autoimmune and immune tolerance
3. Rheumatoid arthritis
4. Sjörgen’s syndrome
5. Gout
6. Systemic sclerosis
7. SLE
8. Inflammatory muscle diseases
9. Behçet’s disease
10. Antiphosholipid syndrome
11. FMF
12. Systemic vasculite

ENDOCRINOLOGY

1. Physical examination of endocrinology
2. Diabetes mellitus: Treatment of type 2 DM (oral ADD)
3. Diabetes mellitus: Insulin treatment
4. Diabetes mellitus: Acute complications
5. Diabetes mellitus: Chronic complications
6. Endocrine emergencies
7. Thyroid disease: Hypothroidism
8. Thyroid disease: Thyrotoxicosis
9. Thyroid disease: Thyroid nodules
10. Hypocalcemia, hypoparathyroidism
11. Hypocalcemia, hyperparathyroidism
12. Osteoporosis and osteomalasia
13. Hyperprolactinememia, acromegaly
14. Cushing syndrome
15. Posterior pituitary disease
16. Pituitary insufficiencies
17. Adrenal insufficiencies
18. Adrenal hyperfunctions
19. Obesity, metabolic syndrome, insülin resistance
20. PCOS, hirsutism

NEPHROLOGY

1. Anamnesis, physical examination and symptoms in nephrology-1
2. Anamnesis, physical examination and symptoms in nephrology-2
3. Renal function tests and urine analysis and interpretation
4. Acid-base disorders-1
5. Acid-base disorders-2
6. Nephrotic and nephritic syndromes-1
7. Nephrotic and nephritic syndromes-2
8. Glomerular disease
9. Acute renal failure
10. Chronic renal failure
11. Tubulointerstisyel renal diseases
12. Hypertension
13. Fluid and electrolyte disorders-1
14. Fluid and electrolyte disorders-2

GASTROENTEROLOGY

1. Introduction to Gastroenterology
2. Diagnostic tests in GIS
3. Upper gastrointestinal diseases
4. Gastrointestinal bleeding
5. Functional gastrointestinal diseases
6. Malabsorption syndromes
7. Inflammatory bowel diseases (IBD)
8. Liver function tests
9. Chronic liver diseases
10. Portal hypertension and asides
11. Cirrhosis and its complications
12. Acute liver failure
13. Gastrointestinal cancers
14. Pancreatitis
15. Pregnancy and gastrointestinal problems
16. Gastrointestinal motility disorders
17. Acute hepatitis
18. Chronic hepatitis
19. Alcoholic and non-alcoholic fatty liver disease (NAFLD)

ONCOLOGY

* Clinical basis of oncology
* Cancer epidemiology and prevention (screenings)
* Principals of cancer treatment and systemic therapy
* Side effects of chemotherapy
* Palliative treatment
* Oncology emergencies
* Febrile Neutropenia
* Lung cancer
* Breast cancer

RADIATION ONCOLOGY

* Introduction to radiation oncology
* Radiotherapy in GIS cancers
* Radiotherapy in lung cancers

HEMATOLOGY

* Anemia
* Acute leukemia
* Bone marrow failure
* Myeloproliferative neoplasms
* Transfusion complications
* Transfusion indications
* Lymphoma-1
* Lymphoma-2
* Hodgkin lymphoma
* Non Hodgkin lymphoma
* Hematologic emergencies
* Thrombosis- hemostasis
* Plasma cell disorders
* Immune trombocytopenic purpura
* Non-idiopathic TTP
* Von Willebrand Disease

CARDIOLOGY

* Approach to chest pain and angına pectoris
* Diagnostic methods in cardiolog 1-2-3
* Hypertension,diagnosis and clinical approach
* Arrhythmia 1-2-3
* Sycope, diagnostic and clinical approach
* Sencope, therapy
* Infective endocarditis, diagnostic and clinical approach
* Infective endocarditis, therapy

**COURSE INFORMATION**

Theoretical (hours) : 90 hours

Practical (hours) : 48 hours

Duration (days) : 28 days

Location : Okan University Hospital

**LEARNING METHODS**

Theroretical / Practical / Seminars/ / Case discussion / Problem based learning

Clinic visits / Patient assessment / Case investigations

Outpatient unit / Clinical observation

**ASSESSMENT:**

* Clinical performance assessment
* Exam
* Verbal exam