

**International School of Medicine / Medicine (English)**

**2023 - 2024 Academic Year**

**INTERNAL MEDICINE**

**Syllabus**

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTERNAL MEDICINE	ISM4214655	Spring Semester	106+88	0	15
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Practice				
<b>Course Coordinator</b>	Prof.Dr. Ömür Gökmen SEVİNDİK				
<b>Name of Lecturer(s)</b>	Prof.Dr. Sergülen DERVİŞOĞLU, Assist.Prof. Hülya BİLGİN, Assoc.Prof. Özge ARICI DÜZ, Prof.Dr. Meryem CAN, Prof.Dr. Ömür Gökmen SEVİNDİK, Prof.Dr. Mehmet BAYRAM, Assoc.Prof. Esra DEMİR, Prof.Dr. Özcan YILDIZ, Prof.Dr. Vedat GÖRAL				
<b>Assistant(s)</b>	Prof.Dr. Sergülen DERVİŞOĞLU, Dr.Öğr.Üye. Hülya BİLGİN, Doç.Dr. Özge ARICI DÜZ, Prof.Dr. Meryem CAN, Prof.Dr. Ömür Gökmen SEVİNDİK, Prof.Dr. Özgür Ulaş ÖZCAN, Prof.Dr. Mehmet BAYRAM, Dr.Öğr.Üye. Esra DEMİR, Dr.Öğr.Üye. Naim MAHROUM, Prof.Dr. Özcan YILDIZ, Prof.Dr. Vedat GÖRAL				
<b>Aim</b>	The aim of this clerkship is; according to the levels of learning specified in the National Core Education Program, to provide getting history taking of internal diseases from the adult patient, performing a complete physical examination, gaining the skills to communicate well with the patient and their relatives, and to provide understanding the information about referring the patients to a higher level health institution when necessary for the diagnosis and treatment of endocrinological, hematological, immunological, metabolic, gastroenterological, rheumatological, infectious and neoplastic diseases that are common in the community and frequently seen in primary health care.				
<b>Course Content</b>	This course contains; Respiratory system examination 1-2-3,Head And Neck Examination 1-2,Urogenital system examination,History taking and physical examination,Abdominal examination 1-2,Nervous system examination,How to fill out a patient chart,Cardiovascular system examination 1-2,Extremity examination,Chronic kidney failure,Dysphagia,Gastroesophageal Reflux Disease And Other Esophageal Disorders -Clinical Approach 1-2,Peptic ulcer,Hypo- and hyperparathyroidism,Disorders of the hypophysis,Dyspepsia and abdominal pain. Differential diagnosis,Laboratory tests for rheumatological diseases,Thyroiditis and cancer of the thyroid ,Obesity,Metabolic Syndrome,Diabetes mellitus,Rheumatoid arthritis 1-2,Hematology, hemogram, hemostasis,Treatment and complications of acute pancreatitis,Polycystic ovarian syndrome,Adrenal insufficiency,Acid-/base balance 1-2,Hypertension, diagnosis and treatment. Clinical approach,Cushin syndrome,Hypoglycemia,Treatment of diabetes mellitus,Behcet disease,Fluid-/and electrolyte disturbances,Tetani and hypoparathyroidism,Hematological emergencies,Bone marrow insufficiency (aplastic anemia, MDS, PNH),Plasma cell disorders,Vitamin D insufficiency,Cancer screening and tumor markers,Treatment of acute complications in diabetes mellitus ,Treatment of chronic complications of diabetes mellitus ,Onchological emergencies,Myeloproliferative disorders,Follow up and treatment of patients with chronic viral hepatitis,Pheochromocytoma,Glomerular disorders,Diagnosis and treatment of the patient with non-alcoholic fatty liver ,Secondary hypertension ,Vasculitis,Leukemias 1-2,Approach to the patient with potassium disturbances,Diagnosis and treatment of inflammatory diseases,Spondyloarthropathies 1-2,Approach to the patient with gastrointestinal bleeding,Diabetes insipidus,Syndrome of inappropriate ADH secretion,Sjögren syndrome,Differential diagnosis in liver tumors,Bleeding, coagulation and thrombolytic disorders,Anemias 1-2-3-,Lymphomas,Clinical approach to solid organ tumors 1-2,Polycystic kidney disease and hereditary nephropathies,Hematuria, proteinuria and glomerular diseases,Systemic Lupus Erythematosus -Antiphospholipid Syndrome-1-2,Acute kidney injury,Chronic diarrhoea and malabsorption syndromes,Chronic constipation and irritable bowel syndrome,Transfusion policies and blood and blood products,Familial mediterranean fever,Polymiosis ,Gout-1-2 ,Jaundice And Liver Test Abnormalities,Follow Up And Treatment Of Patients With Chronic Viral Diseases,The Cirrhotic Patient ,Follow Up And Complications ,Clinical Approach To The Patient With Gastrointestinal Bleeding,Non-Alcoholic Fatty Liver Diseases,NAFLD,Approach To Diagnosis And Treatment Of The Patient With,Approach To The Rheumatological Patient,Sjögren Syndrome,Inflammatory Bowel Diseases -Diagnosis And Treatment ,Chronic Constipation And Irritable Bowel Disease Clinical Approach ,Clinical Approach To Solid Organ Tumors 1-2,Introduction to internal medicine,Delivering Bad News,Practice-Hematology Lab (10 hours),Practice-Laboratory Tests For Rheumatological Disorders (10 hours),Practice-Practice on hospitalized patient (26 Hours).				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Learning objectives in hematology:- Diagnose, treat and follow up on primary level: iron deficiency anemia, megaloblastic anemia, -Tentatively diagnose, manage acute and refer: lymphadenopathy, hypersplenism, acute- and chronic leukemias, plasma cell disorders, hemolytic anemia, aplastic anemia, DIC, ITP, Polycythemia-Tentatively diagnose, refer and follow up on primary level: hemoglobinopathies, Thalassemia, sickle cell anemia, anemia in chronic diseases, -Tentatively diagnose and refer: myeloproliferative disorders, Hodgkin lymphoma, lymphoma, myelodysplastic syndrome, Hemophilia, Von Willerbrand Disorder			16, 3, 4, 9	A, D	
Learning objectives in medical oncology:-Tentatively diagnose, manage acute and refer: infections in the immunocompromised, shock.-Tentatively diagnose and refer: ENT-malignancies, ENT benign tumors, endometrial cancer, cervical cancer, ovarian cyst, tumor in the female genital tract, malignancies of the GI tract, malignancies of the pancreas, liver tumors, palpable- and non-palpable abdominal tumor. kidney tumor, tumor in the lower urinary tract (vesica, urethra), testicular cancer, cancer of the prostate, lung cancer, mediastinal mass, upper respiratory tract tumors, neuropathies, paraneoplastic syndrome, bone metastasis, brain metastasis, breast mass, skin tumors, compression on the spinal cord.			10, 9	A, D	
Learning objectives in rheumatology: - Diagnose, treat and follow up on primary level: FMF-Tentatively diagnose, manage acute and refer: Acute rheumatic fever, systemic lupus erythematosus, scleroderma, inflammatory myositis, infectious arthritis, gout-Tentatively diagnose, refer and follow up in primary level: Rheumatoid arthritis, spondyloarthropathies, Sjögren syndrome.			4		
Learning objectives in nephrology:-Diagnose, treat and follow up in primary level: Primary hypertension, Acute pyelonephritis, -Diagnose, manage acute, refer and follow up on primary level: Diabetic nephropathy, acute glomerulonephritis-Tentatively diagnose, manage acute and refer: nephrotic syndrome, acute kidney injury, chronic renal failure, hyper- and hypocalcemia, hyper- and hypopotassemia, hyper- and hyponatremia, secondary hypertension, chronic pyelonephritis, amyloidosis-Diagnose and refer: polycystic kidney disease, -Tentatively diagnose and refer: glomerular diseases, rapidly progressive glomerulonephritis, small vessel vasculitis, plasma cell dyscrasia, acid base disturbances, drug induced tubulointerstitial nephritis			10, 4, 9	A, D	
Learning objectives of endocrinological disorders are as follows:-Diagnose, treat, and follow up on primary level: Diabetes mellitus, obesity, reduced glucose tolerance, hyperlipidemiaTentatively diagnose, manage acute and refer: Acute complications of diabetes, chronic complications of diabetes, adrenal insufficiency, hypoglycemia. - Tentatively diagnose, refer and follow up on primary level: Goiter, Hashimoto disease, hypothyroidism, hyperthyroidism, thyroid nodule, osteoporosis-Tentatively diagnose and refer: primary hyperaldosteronism, hirsutizm, prolactinoma, hypophyseal disorders, hypogonadism, Cushing syndrome, gynecomastia, hyperparathyroidism, pheochromocytoma			4	A, D	

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Learning objectives of gastroenterology are as follows: -Diagnose, treat and follow up in primary level: gastrointestinal infections, gastritis, food poisoning, bacillary dysentery, food allergies, -Diagnose, manage acute, refer and follow up in primary level: fatty liver-Tentatively diagnose, manage acute and refer: liver cirrhosis, malnutrition, ileus, acute abdomen, acute pancreatitis, upper gastrointestinal bleeding, lower gastrointestinal bleeding, anorectal diseases, diverticulitis, volvulus, cholangitis, peptic ulcer, acute viral hepatitis, GERD, esophagitis, esophageal variceal bleeding, drug intoxications, hepatic coma, alcoholic liver disease, mushroom poisoning-Diagnose and refer: Anal atresia, corrosive damage to the upper GI tract, foreign body in the GI tract. -Tentatively diagnose, refer and follow up in primary level: ulcerative colitis, Chrons disease, chronic pancreatitis, cholelithiasis, celiac disease, chronic hepatitis, Mesotelioma, portal hypertension, Budd-Chiari syndrome, Metabolic liver diseases, Autoimmune liver diseases, pancreatic pseudocysts, GI malignancies, Mesenteric artery diseases, anal prolaps, GI polyps, Lactose intolerance, FMF, Parasitic infections of the GI tract, cystic fibrosis, esophageal motility disorders		10, 4, 9	A, D
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 3: Problem Based Learning Model, 4: Inquiry-Based Learning, 9: Lecture Method		
<b>Assessment Methods</b>	A: Traditional Written Exam, D: Oral Exam		
Lecture Schedule			
Sequence	Topics	Preliminary Preparation	
1	Respiratory system examination 1-2-3	none	
2	Head And Neck Examination 1-2	none	
3	Urogenital system examination	none	
4	History taking and physical examination	none	
5	Abdominal examination 1-2	none	
6	Nervous system examination	none	
7	How to fill out a patient chart	none	
8	Cardiovascular system examination 1-2	none	
9	Extremity examination	none	
10	Chronic kidney failure	none	
11	Dysphagia,Gastroesophageal Reflux Disease And Other Esophageal Disorders - Clinical Approach 1-2	none	
12	Peptic ulcer	none	
13	Hypo- and hyperparathyroidism	none	
14	Disorders of the hypophysis	none	
15	Dyspepsia and abdominal pain. Differential diagnosis	none	
16	Laboratory tests for rheumatological diseases	none	
17	Thyroiditis and cancer of the thyroid	none	
18	Obesity, Metabolic Syndrome	none	
19	Diabetes mellitus	none	
20	Rheumatoid arthritis 1-2	none	
22	Hematology, hemogram, hemostasis	none	
23	Treatment and complications of acute pancreatitis	none	
24	Polycystic ovarian syndrome	none	
25	Adrenal insufficiency	none	
26	Acid-/base balance 1-2	none	
27	Hypertension, diagnosis and treatment. Clinical approach	none	
28	Cushin syndrome	none	
29	Hypoglycemia	none	
30	Treatment of diabetes mellitus	none	
31	Behcet disease	none	
32	Fluid-/and electrolyte disturbances	none	
33	Tetani and hypoparathyroidism	none	
34	Hematological emergencies	none	
35	Bone marrow insufficiency (aplastic anemia, MDS, PNH)	none	
36	Plasma cell disorders	none	
37	Vitamin D insufficiency	none	
38	Cancer screening and tumor markers	none	
39	Treatment of acute complications in diabetes mellitus	none	
40	Treatment of chronic complications of diabetes mellitus	none	
41	Onchological emergencies	none	
42	Myeloproliferative disorders	none	
43	Follow up and treatment of patients with chronic viral hepatitis	none	
44	Pheochromocytoma	none	
45	Glomerular disorders	none	
46	Diagnosis and treatment of the patient with non-alcoholic fatty liver	none	
47	Secondary hypertension	none	
48	Vasculitis	none	
49	Leukemias 1-2	none	

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<b>Lecture Schedule</b>		
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>
50	Approach to the patient with potassium disturbances	none
51	Diagnosis and treatment of inflammatory diseases	none
52	Spondyloarthropathies 1-2	none
53	Approach to the patient with gastrointestinal bleeding	none
54	Diabetes insipidus	none
55	Syndrome of inappropriate ADH secretion	none
56	Sjögren syndrome	none
57	Differential diagnosis in liver tumors	none
58	Bleeding, coagulation and thrombolytic disorders	none
59	Anemias 1-2-3-	none
60	Lymphomas	none
61	Clinical approach to solid organ tumors 1-2	none
62	Polycystic kidney disease and hereditary nephropathies	none
63	Hematuria, proteinuria and glomerular diseases	none
64	Systemic Lupus Erythematosus -Antiphospholipid Syndrome-1-2	none
65	Acute kidney injury	none
66	Chronic diarrhoea and malabsorption syndromes	none
67	Chronic constipation and irritable bowel syndrome	none
68	Transfusion policies and blood and blood products	none
69	Familial mediterranean fever	none
70	Polymyositis	none
71	Gout-1-2	none
72	Jaundice And Liver Test Abnormalities	none
73	Follow Up And Treatment Of Patients With Chronic Viral Diseases	none
74	The Cirrhotic Patient ,Follow Up And Complications	none
75	Clinical Approach To The Patient With Gastrointestinal Bleeding	none
76	Non-Alcoholic Fatty Liver Diseases	none
77	NAFLD,Approach To Diagnosis And Treatment Of The Patient With	none
78	Approach To The Rheumatological Patient	none
79	Sjögren Syndrome	none
80	Inflammatory Bowel Diseases -Diagnosis And Treatment	none
81	Chronic Constipation And Irritable Bowel Disease Clinical Approach	none
82	Clinical Approach To Solid Organ Tumors 1-2	none
83	Introduction to internal medicine	none
84	Delivering Bad News	none
85	Practice-Hematology Lab (10 hours)	none
86	Practice-Laboratory Tests For Rheumatological Disorders (10 hours)	none
87	Practice-Practice on hospitalized patient (26 Hours)	none
<b>Evaluation Methods</b>		<b>Weight(%)</b>
Midterm Exam		40
General Exam		60

<b>Resources</b>
Harrisons Internal Medicine, lecture notes (power point slides)