

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

**2023 - 2024 Academic Year**

**INTERNAL MEDICINE**

**Syllabus**

| <b>Course Description</b>   |  |                 |                         |                           |             |
|---|--|-----------------|-------------------------|---------------------------|-------------|
| <b>Name</b>   | <b>Code</b>  | <b>Semester</b> | <b>T+A Hour</b>         | <b>Credit</b>             | <b>ECTS</b> |
| INTERNAL MEDICINE   | ISM6011171   | Yearly          | 45+315                  | 0                         | 10          |
| <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. Ali MERT  |                 |                         |                           |             |
| <b>Name of Lecturer(s)</b>  | Assist.Prof. İhsan BOYACI, Prof.Dr. Ali MERT, Prof.Dr. Özcan YILDIZ, Prof.Dr. Ahmet BİLİCİ, Prof.Dr. Esin KORKUT, Assist.Prof. Hülya BİLGİN, Assist.Prof. Hüseyin Saffet BEKÖZ, Prof.Dr. Ömer Fatih ÖLMEZ, Assist.Prof. Mustafa Salih AKIN, Prof.Dr. Gülbanu CANBALOĞLU, Prof.Dr. Mehmet Fatih KILIÇLI, Assoc.Prof. Abdullah ŞUMNU, Prof.Dr. Meryem CAN, Prof.Dr. Aydın ÜNAL, Prof.Dr. Murat ATMACA, Prof.Dr. Ömür Gökmen SEVİNDİK, Prof.Dr. Vedat GÖRAL   |                 |                         |                           |             |
| <b>Assistant(s)</b>   |  |                 |                         |                           |             |
| <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; Introduction to internal medicine,Respiratory system examination,Examination of head and neck,Urogenital system examination,History taking and physical examination,Abdominal examination,Nervous system examination,How to fill out a patient chart,Cardiovascular system examination,Extremity examination,Chronic kidney failure,Dysphagia, gastroesophageal reflux disease and other esophageal disorders. ,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, dyslipidemia, metabolic syndrome ,Diabetes mellitus,Rheumatoid arthritis,Hematology, hemogram, hemostasis,Treatment and complications of acute pancreatitis,Polycystic ovarian syndrome,Adrenal insufficiency,Acid-/base balance,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,Approach to the patient with potassium disturbances,Diagnosis and treatment of inflammatory diseases,Spondyloarthropathies,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,Lymphomas,Clinical approach to solid organ tumors,Polycystic kidney disease and hereditary nephropathies,Hematuria, proteinuria and glomerular diseases,Systemic lupus erythematosus,Acute kidney injury,Chronic diarrhoea and malabsorption syndromes,Chronic constipation and irritable bowel syndrome,Transfusion policies and blood and blood products,Familial mediterranean fever,Polymyositis, dermatomyositis. |                 |                         |                           |             |
| <b>Course Learning Outcomes</b>   |  |                 | <b>Teaching Methods</b> | <b>Assessment Methods</b> |             |
| 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                      |             |
| 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, Mesothelioma, 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                      |             |

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| Course Learning Outcomes |  | Teaching Methods  | Assessment Methods |
|--------------------------|--|---|--------------------|
| Teaching Methods         |  | 10: Discussion Method, 16: Question - Answer Technique, 3: Problem Bated Learning Model, 4: Inquiry-Based Learning, 9: Lecture Method |                    |
| Assessment Methods       |  | A: Traditional Written Exam, D: Oral Exam   |                    |
| Lecture Schedule         |  |   |                    |
| Sequence                 | Topics   | Preliminary Preparation   |                    |
| 0                        | Introduction to internal medicine  |   |                    |
| 1                        | Respiratory system examination   |   |                    |
| 2                        | Examination of head and neck   |   |                    |
| 3                        | Urogenital system examination  |   |                    |
| 4                        | History taking and physical examination                                    |   |                    |
| 5                        | Abdominal examination  |   |                    |
| 6                        | Nervous system examination   |   |                    |
| 7                        | How to fill out a patient chart  |   |                    |
| 8                        | Cardiovascular system examination  |   |                    |
| 9                        | Extremity examination  |   |                    |
| 10                       | Chronic kidney failure   |   |                    |
| 11                       | Dysphagia, gastroesophageal reflux disease and other esophageal disorders. |   |                    |
| 12                       | Peptic ulcer   |   |                    |
| 13                       | Hypo- and hyperparathyroidism  |   |                    |
| 14                       | Disorders of the hypophysis  |   |                    |
| 15                       | Dyspepsia and abdominal pain. Differential diagnosis                       |   |                    |
| 16                       | Laboratory tests for rheumatological diseases                              |   |                    |
| 17                       | Thyroiditis and cancer of the thyroid                                      |   |                    |
| 18                       | Obesity, dyslipidemia, metabolic syndrome                                  |   |                    |
| 19                       | Diabetes mellitus  |   |                    |
| 20                       | Rheumatoid arthritis   |   |                    |
| 22                       | Hematology, hemogram, hemostasis   |   |                    |
| 23                       | Treatment and complications of acute pancreatitis                          |   |                    |
| 24                       | Polycystic ovarian syndrome  |   |                    |
| 25                       | Adrenal insufficiency  |   |                    |
| 26                       | Acid-/base balance   |   |                    |
| 27                       | Hypertension, diagnosis and treatment. Clinical approach                   |   |                    |
| 28                       | Cushin syndrome  |   |                    |
| 29                       | Hypoglycemia   |   |                    |
| 30                       | Treatment of diabetes mellitus   |   |                    |
| 31                       | Behcet disease   |   |                    |
| 32                       | Fluid-/and electrolyte disturbances  |   |                    |
| 33                       | Tetani and hypoparathyroidism  |   |                    |
| 34                       | Hematological emergencies  |   |                    |
| 35                       | Bone marrow insufficiency (aplastic anemia, MDS, PNH)                      |   |                    |
| 36                       | Plasma cell disorders  |   |                    |
| 37                       | Vitamin D insufficiency  |   |                    |
| 38                       | Cancer screening and tumor markers   |   |                    |
| 39                       | Treatment of acute complications in diabetes mellitus                      |   |                    |
| 40                       | Treatment of chronic complications of diabetes mellitus                    |   |                    |
| 41                       | Onchological emergencies   |   |                    |
| 42                       | Myeloproliferative disorders   |   |                    |
| 43                       | Follow up and treatment of patients with chronic viral hepatitis           |   |                    |
| 44                       | Pheochromocytoma   |   |                    |
| 45                       | Glomerular disorders   |   |                    |
| 46                       | Diagnosis and treatment of the patient with non-alcoholic fatty liver      |   |                    |
| 47                       | Secondary hypertension   |   |                    |
| 48                       | Vasculitis   |   |                    |
| 49                       | Leukemias  |   |                    |
| 50                       | Approach to the patient with potassium disturbances                        |   |                    |
| 51                       | Diagnosis and treatment of inflammatory diseases                           |   |                    |
| 52                       | Spondyloarthropathies  |   |                    |
| 53                       | Approach to the patient with gastrointestinal bleeding                     |   |                    |
| 54                       | Diabetes insipidus   |   |                    |
| 55                       | Syndrome of inappropriate ADH secretion                                    |   |                    |
| 56                       | Sjögren syndrome   |   |                    |
| 57                       | Differential diagnosis in liver tumors                                     |   |                    |

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| Lecture Schedule   |  |                         |
|--------------------|--|-------------------------|
| Sequence           | Topics   | Preliminary Preparation |
| 58                 | Bleeding, coagulation and trombolytic disorders        |                         |
| 59                 | Anemias  |                         |
| 60                 | Lymphomas  |                         |
| 61                 | Clinical approach to solid organ tumors                |                         |
| 62                 | Polycystic kidney disease and hereditary nephropathies |                         |
| 63                 | Hematuria, proteinuria and glomerular diseases         |                         |
| 64                 | Systemic lupus erythematosus                           |                         |
| 65                 | Acute kidney injury                                    |                         |
| 66                 | Chronic diarrhoea and malabsorption syndromes          |                         |
| 67                 | Chronic constipation and irritable bowel syndrome      |                         |
| 68                 | Transfusion policies and blood and blood products      |                         |
| 69                 | Familial mediterranean fever                           |                         |
| 70                 | Polymyositis, dermatomyositis                          |                         |
| Evaluation Methods |  | Weight(%)               |
| Midterm Exam       |  | 40                      |
| General Exam       |  | 60                      |

| Resources   |
|---|
| Harrisons Internal Medicine, lecture notes (power point slides) |