

**ÜSKÜDAR UNIVERSITY FACULTY OF MEDICINE**

**4TH SEMESTER**

**INTERNAL MEDICINE INTERNSHIP GUIDE**

**4TH SEMESTER INTERNAL MEDICINE INTERNSHIP**

**1) 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP AND DURATION:**

Üsküdar University Faculty of Medicine, 4th Semester Internal Medicine Internship aims to develop knowledge and skills for internal diseases, which mainly start with theoretical courses in the 3rd Semester. Combining theoretical knowledge with skills and attitudes will enable the student to reach the desired competence. The first step in achieving this integration in terms of Internal Medicine is the internship in the 4th Semester. The most important goal is for a physician to fully comprehend and internalize the systemic examination that they will perform throughout their life.

After the completion of the Internal Medicine Internship of fourth-year faculty of medicine students, it is aimed to develop an in-depth understanding of the basic medical practices of the field. This process covers a wide range of internal diseases and aims to provide the necessary knowledge and skills in cases where it is necessary to identify symptoms, determine their causes, and sometimes offer solutions in critical scenarios such as emergencies. The Internal Medicine Internship aims to strengthen students' ability to understand, diagnose and manage problems by providing a broad perspective on the main and related minors of the field. Students not only experience basic medical practices in the field of internal medicine, but also become equipped to determine appropriate treatment methods for the needs of patients and to apply to relevant specialties when necessary.

Internal Medicine internship is 9 weeks: Theory (4 weeks), Practice (4 weeks), freelance work (1 week). Theoretical courses will be taught for the first 4 weeks, and practical applications will be made for the next 4 weeks. Every week on Thursdays is the day of case reporting.

**2) 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP LEARNING OBJECTIVES**

1. Patient history acquisition and systemic physical examination ability in general and challenging situations
2. Practice of detailed systemic physical examination.
3. Ability to create a patient file, prepare an epicrisis report and communicate with the patient
4. To teach them to diagnose and plan their treatment and to implement common diseases
5. Competence to distinguish between internal and surgical problems.
6. Ability to request laboratory tests and evaluate results.
7. Understanding the symptoms of malignancy and oncological emergencies.
8. Principles of diagnosis and monitoring of chronic diseases.

**3) DUTIES OF THE INTERN:**

1. **Development of Clinical Knowledge and Skills:** At the end of this internship period, it is aimed that the interns will have the competence to take a complete and accurate patient history regarding the above-mentioned complaints, findings and conditions, and to have internalized the systemic examination practice and clinical reasoning processes. For this purpose, interns should gain knowledge and experience by actively participating in theoretical and practical courses, and it is important that they do not abstain.
2. **Professional Attitude at the Bedside:** During this internship period, interns are required to make the best use of the opportunities provided by bedside training and to behave in accordance with the medical profession. Acting respectfully, empathetic and adhering to ethical values in communication with the patient is of great importance in terms of both patient safety and a healthy physician-patient relationship.
3. **Importance of Internal Medicine Education:** Internal medicine contains critical information for many people who will become clinicians as one of the basic departments of medicine. The knowledge and skills in this field include basic medical practices such as patient assessment, diagnosis, treatment and patient management. Therefore, learning and understanding internal medicine is of great importance for health professionals to practice their profession ethically and effectively. For this reason, interns are required to put intense effort and attention into internal medicine education and study.
4. **Communication Skills:** Good communication is the key to establishing healthy relationships with patients and their relatives. Interns must learn to communicate effectively with their patients and their families and answer patients' questions with understanding.
5. **Teamwork: Medical** care often requires a team effort. Interns must learn to collaborate effectively with other healthcare professionals and work in a coordinated manner to provide the best care for patients.
6. **Ethics and Privacy:** Respecting ethical values and taking care of patient privacy are critical in medical practices. Interns should pay attention to ethical issues such as protecting the confidentiality of patients and obtaining the patient's consent.
7. **Scientific Research: Developments** in the field of medicine are constantly changing. Interns should follow the current literature, develop research skills, and apply scientific approaches.
8. **Continuous Learning:** Medical knowledge is constantly updated. Interns must be invested in their own professional development and level of knowledge, and be willing to constantly learn and update themselves.
9. **Time Management:** Medical practices can often be busy and fast-paced. Interns must learn to manage time effectively, be able to manage emergencies, and handle the workload in a balanced way.

**4) LEARNING OUTCOMES OF 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP**

At the end of the Internal Medicine internship, students;

* **Patient Assessment and Diagnosis Competence:** At the end of the internship, interns should gain the ability to identify the symptoms of various internal diseases and to make a differential diagnosis of these symptoms.
* **Medical History Taking and Physical Examination Skills:** Interns should develop the competence to detect symptoms of diseases specific to the field of internal medicine, to take comprehensive medical history from patients, and to perform systemic physical examinations.
* **Diagnosis and Treatment Knowledge:** Interns should have basic knowledge of the wide range of internal medicine, learn and apply the diagnosis and treatment methods of common internal diseases.
* **Emergency Management:** Interns should gain the competence to identify emergencies that are common in internal medicine, understand basic emergency approach principles, and take appropriate action when necessary.
* **Patient Communication and Empathy:** Interns should develop the skills to communicate effectively with patients, inform patients and their relatives, and exhibit an understanding and empathetic approach.
* **Evaluation of Laboratory Data:** Interns should gain competence in understanding, evaluating and relating laboratory results to the clinical situation.
* **Clinical Reasoning:** Interns must gain the ability to perform data analysis, assess the patient's condition, and develop appropriate diagnosis and treatment strategies.
* **Team Collaboration:** Interns must gain the ability to collaborate effectively with other healthcare professionals and work in a coordinated manner within the team to provide the best care for patients.
* **Respect for Ethical Values:** At the end of the internship process, interns should learn to be sensitive about the confidentiality and privacy of patients and to practice medicine that respects ethical values.
* **Willingness to Continuously Learn:** Interns should be willing to follow the developments in the field of medicine, constantly update and improve themselves by following the current literature.

**5) LEARNING-TEACHING METHODS IN THE COURSES AND PRACTICES IN THE 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP PROGRAM**

1. **Theoretical courses:**

These are the courses that students attend in order to understand and assimilate the necessary information in order to reach internship qualifications. These courses are platforms where theoretical knowledge is shared and discussed. The program is given below.

1. **Case Discussion:**

During practical training hours, the principles of approach, diagnosis, differential diagnosis and treatment for certain patient groups or presenting complaints are evaluated. The program is presented below.

1. **Case Preparation:**

During the internship in internal medicine, each student prepares a case for which he is responsible for detailed history taking, systemic examination, differential diagnosis and diagnostic content. This fact is presented as an evaluation criterion at the end of the internship.

1. **Independent Learning in the Clinic:**

Within the weekly program, independent learning hours are allocated so that students can make the most of the opportunities offered in learning environments such as inpatient service and Internal Medicine Polyclinic.

**6) 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP TRAINING ENVIRONMENTS**

1. Classrooms, conference halls in the NP Health Campus
2. Sancaktepe Training and Research Hospital Internal Medicine Clinic and Polyclinics

**7) 4TH SEMESTER INTERNAL MEDICINE, CORE DISEASES/CLINICAL PROBLEMS AND TARGETED LEARNING LEVELS**

**Learning Levels**

|  |
| --- |
| **Faculty of Medicine Graduates in Primary Health Care Service Delivery** |
| **A** | To be able to identify the emergency, make the first treatment, and refer them to a specialist when necessary. |
| **ÖnT** | In non-emergency situations, to be able to make a preliminary diagnosis and take the necessary preliminary procedures and direct them to the specialist. |
| **T** | To be able to diagnose and have information about the treatment, perform the necessary preliminary procedures and refer them to the specialist. |
| **TT** | To be able to diagnose and treat |
| **İ** | To be able to perform long-term follow-up (monitoring) and control |
| **K** | To be able to implement protection measures (primary, secondary and tertiary protections that are appropriate) |

**Core Diseases/Clinical Problems and Targeted Learning Levels**

|  |  |
| --- | --- |
| **Diseases/Clinical Problems** | **Learning Level** |
| Adrenochocorital insufficiency | **T-A** |
| Familial mediterranean fever | **ÖnT** |
| Acute renal failure | **T-A-K** |
| Acut glomerulonephritis | **T-A** |
| Akut hepatitis | **T-K** |
| Acut pancreatitis | **ÖnT** |
| Aplastik anemia | **ÖnT** |
| Arthritis | **T** |
| Acid-base imbalances | **A** |
| Assite | **T** |
| Behçet's disease | **ÖnT** |
| Cystic diseases of the kidney | **ÖnT** |
| Renal anomalies | **ÖnT** |
| Cushing's disease | **ÖnT** |
| Iron deficiency anemia | **TT-K** |
| Dyslipidema | **T-K-İ** |
| Diabetes insipidus | **ÖnT** |
| Diabetes Mellitus | **TT-K-İ** |
| Complications of acute diabetes | **T-A** |
| Hypertension | **TT-A-Kİ-İ** |
| Feokromasitoma | **ÖnT** |
| Gastroenterites | **TT-A-K** |
| Gastroesophageal reflux | **TT-K-İ** |
| Guatr | **TT-K-İ** |
| Gout | **ÖnT-K** |
| Hemoglobinopati | **ÖnT-K** |
| Hemolytic anemias | **ÖnT** |
| Hemolytic uremic syndrome | **ÖnT** |
| Hepatic encephalopathy | **A** |
| Hepatosteatosis | **ÖnT-İ** |
| Hyperparathyroidism | **ÖnT** |
| Hyperthyroidism | **ÖnT** |
| Hypoglycemia | **A** |
| Hypoparathyroidism | **ÖnT** |
| Hypothyroidism | **TT-İ** |
| Inflammatory bowel diseases | **ÖnT** |
| Irritable bowel disease | **ÖnT-K-İ** |
| Bleeding disorders | **ÖnT-K-İ** |
| Cirrhosis of the liver | **ÖnT-K** |
| Chronic kidney disease | **T-A-K-İ** |
| Chronic glomerulonephritis | **ÖnT** |
| Chronic Hepatitis | **ÖnT** |
| Chronic pancreatic | **ÖnT** |
| Lymphoproliferative diseases | **ÖnT** |
| Leukemias | **ÖnT** |
| Megaloblastic anemi | **TT-K-İ** |
| Metabolic syndrome | **T-K-İ** |
| Myeloproliferative diseases | **ÖnT** |
| Nephrotic syndrome | **T** |
| Obesity | **T-K-İ** |
| Oncological emergencies | **A** |
| Peptic diseases | **TT-K-İ** |
| Peritonitis | **ÖnT** |
| Portal hypertension | **ÖnT** |
| Romatoid artrit | **ÖnT** |
| Secondary hypertension | **ÖnT-İ** |
| Fluid electrolyte disturbances | **T-A-K** |
| Systemic lupus erythematosus | **ÖnT** |
| Scleroderma | **ÖnT** |
| Spondyloarthropathies | **ÖnT** |
| Tubulointerstitial diseases | **ÖnT** |
| Upper gastrointestinal bleeding | **T-A** |
| Vasculitides | **ÖnT** |
| Wilson's disease | **ÖnT** |

**Basic Medical Practices Learning Level**

|  |  |
| --- | --- |
| Learning Level | Explanation |
| **1** | To be able to how the application is done and explains the results to the patient and/or their relatives. |
| **2** | In case of an emergency, to be able to the application in accordance with the guideline/directive |
| **3** | To be able to make applicaitons in uncomplicated, frequent, situations/cases |
| **4** | To be able to the application including complex situations/cases  |

**Basic Medical Practices**

|  |  |
| --- | --- |
| **Internal Medicine Internship Basic Medical Practices** | **Learning Level** |
| **Taking a Medical History** |
| Ability to take general and problem-oriented stories | 4 |
| Assessing Mental Status | 4 |
| **Physics of muayene** |  |
| Examination of the abdomen | 4 |
| Consciousness assessment and mental status examination | 3 |
| Skin examination | 4 |
| Evaluation of general condition and vital signs | 4 |
| Examination of the cardiovascular system | 4 |
| Breast and axillary region examination | 3 |
| Musculoskeletal examination | 3 |
| Examination of the respiratory system | 4 |
| **Registration, reporting and notice** |
| Ability to clarify and obtain consent | 4 |
| Ability to prepare epicrisis | 4 |
| Ability to prepare a patient file | 4 |
| Ability to prepare a treatment refusal document | 4 |
| Reporting and reporting legally notifiable diseases and conditions | 4 |
| Ability to issue prescriptions | 4 |
| **Laboratory tests** |
| Ability to apply the principles of working with biological material | 4 |
| Ability to provide decontamination, disinfection, sterilization, antisepsis | 4 |
| Ability to read and evaluate direct radiographs | 3 |
| Ability to measure and evaluate blood glucose with a glucometer | 4 |
| Ability to measure and evaluate bleeding time | 2 |
| Ability to perform and evaluate peripheral smears | 3 |
| Ability to evaluate complete urine analysis (including microscopic examination) | 3 |
| Ability to fill out the request form for laboratory examination | 4 |
| Ability to take laboratory sample under appropriate conditions  | 4 |
| Ability to interpret the results of screening and diagnostic examinations | 3 |
| **Medical practices** |
| Distinguishing / managing forensic cases | 3 |
| Ability to take biological samples from the patient  | 3 |
| Ability to apply the principles of rational drug use | 4 |
| Ability to request rational laboratory and imaging examination | 4 |
| Arterial blood gas removal | 3 |
| Ability to open vascular access | 3 |
| Hand washing | 4 |
| Ability to take biological samples from the patient | 3 |
| Ability to insert a urinary catheter | 3 |
| Ability to measure blood pressure | 4 |
| Ability to perform blood transfusions | 3 |
| Ability to take capillary blood samples | 4 |
| Ability to take samples for culture | 3 |
| Ability to administer a nasogastric catheter | 3 |
| Ability to administer oxygen and nebulinator therapy | 4 |
| Ability to provide protection and transportation suitable for the cold chain | 4 |
| Ability prepare the drugs to be applied correctly | 3 |
| Providing the principles of acute decontamination in poisoning | 2 |
| **Preventive medicine**  |  |
| Ability to perform geriatric evaluation | 3 |
| Periodic health examination (vision, hearing, metabolic diseases, vaccination of risky groups, cancer screenings) | 4 |
| Ability to take precautions to prevent healthcare-associated infections | 3 |
| Taking precautions to prevent infections in public living areas | 4 |
| **Principles and practices of scientific research** |
| Ability to access current literature information and to read critically | 3 |
| Ability to apply the principles of evidence-based medicine in the clinical decision-making process | 3 |

**8) 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP MEASUREMENT AND EVALUATION**

The end-of-internship assessment and evaluation methods and their contribution to the internship passing grade are as follows:

**1. Evaluation of service work**

The grade given to the patient file created by each intern by the faculty members responsible for the patients reflects the performance of the intern. During the practical training hours, the activities of the intern are evaluated and plus points are added to this grade. This evaluation constitutes 20% of the internship grade.

**2. Oral and/or written OSCE exam:**

Juries, consisting of at least two faculty members, conduct an oral and/or written OSCE exam that covers the learning objectives of the students, including the knowledge gained in theoretical and practical courses, during the internship period. The score obtained in this exam constitutes 80% of the internship grade.

**9) 4TH SEMESTER INTERNAL MEDICINE INTERNSHIP FEEDBACK**

On the last Friday of the internal medicine internship, anonymous written feedback is requested from the students after the exam. In this process, students' evaluations about the positive and negative points experienced in the internship experience, the performance of the instructors and the effectiveness of the courses are collected.