# T.C.
# LOKMAN HEKIM UNIVERSITY
# FACULTY OF MEDICINE
# PHASE – IV
# 2024 – 2025 ACADEMIC YEAR
# EDUCATION AND TEACHING GUIDE

| PRE-GRADUATION EDUCATION COORDINATORSHIP | |
|---|---|
| **EXECUTIVE COORDINATORSHIP** | |
| Chief Coordinator | Asst. Prof. Güleser Göktaş, PhD |
| Basic Medical Sciences Coordinator | Prof. Şükrü Volkan Özgüven, MD |
| Clinical Medical Sciences Coordinator | Prof. Engin Dursun, MD |
| | |
| **PHASE I COORDINATORSHIP** | |
| Coordinator | Asst. Prof. Selen Güçlü Durgun, PhD |
| Vice Coordinator (Turkish) | Asst. Prof. Demet Kaçaroğlu, PhD |
| Vice Coordinator (English) | Asst. Prof. Eda Sağıroğlu, PhD |
| Member | Lecturer Ofcan Oflaz, PhD |
| Member | Lecturer Müge Coşkun |
| Member | Res. Asst. Hilal Şamandar Aydaş |
| Member | Res. Asst. Musa Latif Çöllüoğlu |
| **PHASE II COORDINATORSHIP** | |
| Coordinator | Prof. Belma Turan, PhD |
| Vice Coordinator (Turkish) | Asst. Prof. Yasemin Atıcı, PhD |
| Vice Coordinator (English) | Asst. Prof. Ruken Tan, PhD |
| Member | Lecturer Onur Can Şanlı, PhD |
| Member | Lecturer Merve Sayın |
| Member | Res. Asst. Ayşe Erkaya |
| Member | Res. Asst. Neslihan İpek |
| **PHASE III COORDINATORSHIP** | |
| Coordinator | Asst. Prof. Elif Hilal Vural, MD |
| Vice Coordinator (Turkish) | Assoc. Prof. Can Türk, PhD |
| Vice Coordinator (English) | Asst. Prof. Fatma Yıldırım, MD |
| Member | Dr. Osman Karakuş, MD |
| Member | Res. Asst. Ayşegül Yılmaz |
| Member | Res. Asst. Sevilay Tura |
| **PHASE IV COORDINATORSHIP** | |
| Coordinator | Assoc. Prof. Haydar Celasin, MD |
| Vice Coordinator (Turkish) | Assoc. Prof. Müge Kuzu Kumcu, MD |
| Vice Coordinator (English) | Assoc. Prof. Cemile Özsürekçi, MD |
| Member | Assoc. Prof. Halil Akın, MD |
| **PHASE V COORDINATORSHIP** | |
| Coordinator | Prof. Engin Dursun, MD |
| Vice Coordinator (Turkish) | Prof. Güleser Saylam, MD |
| Vice Coordinator (English) | Assoc. Prof. Esen Sayın Gülensoy , MD |
| Member | Asst. Prof. Ali Rıza Yağmur, MD |
| **PHASE VI COORDINATORSHIP** | |
| Coordinator | Prof. Sarp Üner, MD |
| Vice Coordinator (Turkish) | Assoc. Prof. Fisun Sözen, MD |
| Vice Coordinator (English) | Asst. Prof. Tayfun Göktaş, MD |

T.R.

**LOKMAN HEKIM UNIVERSITY**

**FACULTY OF MEDICINE ENGLISH PROGRAMME**

**PHASE IV COURSES and ECTS**

| CODE | COMPULSORY COURSES | DURATION (DAYS) | THEORETICAL LECTURES HOURS | ECTS |
|---|---|---|---|---|
| | Internal Medicine | 35 | 90 | 9 |
| | Infectious Diseases | 10 | 25 | 3 |
| | General Surgery and Pediatric Surgery | 35 | 74 | 9 |
| | Anesthesiology and Reanimation | 10 | 11 | 3 |
| | Cardiology | 15 | 33 | 5 |
| | Cardiovascular Surgery | 5 | 17 | 2 |
| | Neurology | 15 | 24 | 5 |
| | Neurosurgery | 10 | 18 | 3 |
| | Gynecology and Obstetrics | 30 | 77 | 8 |
| | Urology | 15 | 23 | 5 |
| **ZORUNLU OLARAK ALINMASI GEREKEN AKTS TOPLAMI** | | **180** | **392** | **52** |

| CODE | ELECTIVE COURSES | T | P | C | ECTS |
|---|---|---|---|---|---|
| | Narrative Medicine I | 2 | 0 | 2 | 4 |
| | USMLE Preparation I | 2 | 0 | 2 | 4 |
| | Narrative Medicine II | 2 | 0 | 2 | 4 |
| | USMLE Preparation II | 2 | 0 | 2 | 4 |
| **SEÇMELİ OLARAK ALINMASI GEREKEN AKTS TOPLAMI** | | | | | **8** |
| **III. YILDA ALINMASI GEREKEN TOPLAM AKTS** | | | | | **60** |

## PHASE IV OBJECTIVES AND LEARNING OUTCOMES

**Aim:**

Phase IV students; in *Internal Medicine*, *Infectious Diseases*, *General Surgery and Pediatric Surgery*, *Anesthesiology and Reanimation*, *Cardiology*, *Cardiovascular Surgery*, *Neurology*, *Neurosurgery, Obstetrics and Gynecology* and *Urology* will take Clinical Courses and Practice Boards. At the end of these Clinical Courses and Practice Boards, phase IV students will have the necessary skills and knowledge to perform a general approach to the patient in diseases related to clinical branches, to diagnose or pre-diagnose common diseases, to treat patients at the primary care level and to perform emergency interventions, to explain the principles of preventive health services of diseases.

**Learning Objectives:**

Phase IV students; in *Internal Medicine*, *Infectious* Diseases, *General Surgery and Pediatric Surgery*, *Anesthesiology and Reanimation*, *Cardiology*, *Cardiovascular Surgery*, *Neurology*, *Brain and Nerve Surgery, Obstetrics and Gynecology* and *Urology* after clinical courses related to these Departments / Sciences;

1. They take stories from patients,
2. Performs physical examinations,
3. In primary care, they order the necessary examinations of patients, interpret the results, and make preliminary diagnoses or diagnoses,
4. Distinguish patients to be followed up in primary care, plan their treatment,
5. Directs patients who need to be treated and followed up at a higher level or by a specialist,
6. It provides guidance for rare diseases,
7. Refer rare applications to an appropriate branch in a timely manner,
8. They will be able to define how to prevent common diseases in our country.

| EXPLANATIONS and ABBREVIATIONS RELATED to LEARNING LEVELS | |
|---|---|
| **E** | Define the **emergency situation**, perform the first treatment, and refer to a specialist when necessary |
| **PreD** | To be able to make a **preliminary diagnosis** in non-emergency situations, perform the necessary preliminary procedures and refer to the specialist |
| **D** | Should be able to **diagnose** and have knowledge about treatment, perform the necessary preliminary procedures and refer to the specialist |
| **DT** | Should be able to **diagnose** and **treat** |
| **F** | Should be able to perform long-term **follow-up** and control. |
| **P** | Should be able to apply **protection** measures (primary, secondary and tertiary prevention, as appropriate) |

| SCORING FOR BASIC MEDICAL PRACTICES LEARNING LEVEL | |
|---|---|
| **Learning Level** | **Description** |
| **1** | Knows how the application is performed and explains the results to the patient and/or patient relatives |
| **2** | In case of an emergency, performs the application in accordance with the guideline / directive |
| **3** | Performs the application* in non-complex, common situations/cases |
| **4** | Performs the application* including complex situations/cases |
| ***** Conducts pre-assessment/evaluation, creates and implements the necessary plans, informs patients and their relatives/community about the process and its results | |

# CLINICAL COURSE and PRACTICE BOARDS PROGRAM

| | |
|---|---|
| **Coordinator** | **Assoc. Prof. Dr. Haydar CELASİN** |
| **Deputy Coordinators** | **Assoc. Prof. Dr. Halil AKIN**<br>**Assoc. Prof. Dr. Cemile ÖZSÜREKÇI** |

## CLINICAL COURSE and PRACTICE BOARDS (CCPB) GROUPS and RESPONSIBILITIES

| Groups | DEPARTMENTS | Clinical Course and Practice Board Responsible | Duration (Working Day) | Total Duration (Working Day) |
|---|---|---|---|---|
| **Group-1** | ***Internal Medicine*** | Prof. Dr. Muhammet GUVEN<br>Assoc. Prof. Dr. Cemile Özsürekçi | 35 | 45 |
| | ***Infectious Disease*** | Prof. Dr. Mehmet DOĞANAY | 10 | |
| **Group-2** | ***General Surgery and Pediatric Surgery*** | Assoc. Prof. Dr. Haydar CELASİN | 35 | 45 |
| | ***Anesthesiology and Reanimation*** | Prof. Dr. Ülkü AYPAR | 10 | |
| **Group-3** | ***Neurology*** | Prof. Dr. Ceyla İRKEÇ<br>Assis. Prof. Dr. Esra ERUYAR | 15 | 45 |
| | ***Neurosurgery*** | Prof. Dr. Cahit KURAL | 10 | |
| | ***Cardiology*** | Prof. Dr. Sercan OKUTUCU<br>Assis. Prof. İlke Çelikkale | 15 | |
| | ***Cardiovascular Surgery*** | Prof. Dr. Necmettin ÇOLAK | 5 | |
| **Group-4** | ***Urology*** | Prof. Dr. Kürşad ZENGIN<br>Prof. Dr. İsmail NALBANT | 15 | 45 |
| | ***Gynecology and Obstetrics*** | Prof. Dr. Hatice ÇELIK<br>Assis. Prof. Dr. Meryem CEYHAN | 30 | |
| | | **TOTAL** | **180** | |

# CLINICAL COURSE and PRACTICE BOARDS (CCPD) EDUCAEDUCATION and TEACHING ANNUAL PLAN

| ACADEMIC CALENDAR and CLINICAL COURSE and PRACTICE BOARDS GROUPS | | | |
|---|---|---|---|
| **SEMESTER** | **DATE** | **DURATİON** | **GROUP** |
| **1st Semester (FALL)** | September 09th, 2024<br>November 08th, 2024 | 45 days | 1. (ENG) |
| | November 11th, 2024<br>January 10th , 2025 | 45 days | 1. (ENG) |
| **Semester Break** | January 11th, 2025<br>January 26th, 2025 | 14 days | **Semester Break** |
| **2nd Semester (SPRING)** | January 27th, 2025<br>March 28th, 2025 | 45 days | 1. (ENG) |
| | April 02nd, 2025<br>May 30th, 2025 | 45 days | 1. (ENG) |
| | | | |
| **Make-up EXAMS** | June 16th, 2025<br>June 20th, 2025 | 5 days | Those who failed to make up |

**2024-2025 Eğitim ve Öğretim Yılı**
**2024-2025 Education Period**

**Tıp Fakültesi (Türkçe-TR) Dönem IV Klinik Ders ve Uygulama Kurulu (KDUK) Programı**
**Faculty of Medicine (ENGLISH-ENG) 4th Year Clinical Course and Practice Board (CCPB) Program**

| HAFTA WEEK | 1. Grup (1st Group) | | 2. Grup | 3. Grup | 4. Grup | GÜNLER / DAYS | | | | | | | | AY MONTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TR (A) | ENG (E) | TR (B) | TR (C) | TR (D) | Pts/Mon | S/Tue | Ç/Wed | Per/Thur | C/Fri | SINAV EXAMS | Cts/Sat | Pa/Sun | |
| 1. | İç Hastalıkları<br>Enfeksiyon Hastalıkları | Internal Medicine<br>Infectious Diseases | Genel Cerrahi<br>Çocuk Cerrahisi | Nöroloji | Üroloji | 9 | 10 | 11 | 12 | 13 | | 14 | 15 | Eylül-2024<br>September-2024 |
| 2. | | | | | | 16 | 17 | 18 | 19 | 20 | | 21 | 22 | |
| 3. | | | | Beyin ve Sinir Cerrahisi | Kadın Hastalıkları ve Doğum | 23 | 24 | 25 | 26 | 27 | ÜROLOJİ | 28 | 29 | |
| 4. | | | | | | 30 | 1 | 2 | 3 | 4 | | 5 | 6 | |
| 5. | | | | Kardiyoloji | | 7 | 8 | 9 | 10 | 11 | NÖROLOJİ - BEYİN ve SİNİR CERRAHİSİ | 12 | 13 | Ekim-2024<br>October-2024 |
| 6. | | | | | | 14 | 15 | 16 | 17 | 18 | | 19 | 20 | |
| 7. | | | | | | 21 | 22 | 23 | 24 | 25 | GENEL CERRAHİ - ÇOCUK CERRAHİSİ | 26 | 27 | |
| 8. | | | Anesteziyoloji ve Reanimasyon | | | 28 | 29 | 30 | 31 | 1 | KARDİYOLOJİ | 2 | 3 | |
| 9. | | | | Kalp ve Damar Cerrahisi | | 4 | 5 | 6 | 7 | 8 | İÇ HASTALIKLARI- ENFEKSİYON HASTALIKLARI<br>INTERNAL MEDICINE – ENFECTIOUS DISEASES<br>ANESTEZİYOLOJİ ve REANİMASYON<br>KALP ve DAMAR CERRAHİSİ<br>KADIN HASTALIKLARI ve DOĞUM | 9 | 10 | Kasım-2024 |
| 10. | Üroloji | Urology | İç Hastalıkları<br>Enfeksiyon Hastalıkları | Genel Cerrahi<br>Çocuk Cerrahisi | Nöroloji | 11 | 12 | 13 | 14 | 15 | | 16 | 17 | November-2024 |
| 11. | | | | | | 18 | 19 | 20 | 21 | 22 | | 23 | 24 | |
| 12. | | | | | | 25 | 26 | 27 | 28 | 29 | ÜROLOJİ<br>UROLOGY | 30 | 1 | |
| 13. | Kadın Hastalıkları ve Doğum | Gynecology and Obstetrics | | | Beyin ve Sinir Cerrahisi | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | |
| 14. | | | | | | 9 | 10 | 11 | 12 | 13 | NÖROLOJİ - BEYİN ve SİNİR CERRAHİSİ | 14 | 15 | Aralık-2024<br>December-2024 |
| 15. | | | | | Kardiyoloji | 16 | 17 | 18 | 19 | 20 | | 21 | 22 | |
| 16. | | | | | | 23 | 24 | 25 | 26 | 27 | GENEL CERRAHİ - ÇOCUK CERRAHİSİ | 28 | 29 | |
| 17. | | | | Anesteziyoloji ve Reanimasyon | | 30 | 31 | 1 | 2 | 3 | KARDİYOLOJİ | 4 | 5 | |
| 18. | | | | | Kalp ve Damar Cerrahisi | 6 | 7 | 8 | 9 | 10 | İÇ HASTALIKLARI- ENFEKSİYON HASTALIKLARI<br>ANESTEZİYOLOJİ ve REANİMASYON<br>KALP ve DAMAR CERRAHİSİ<br>KADIN HASTALIKLARI ve DOĞUM<br>GYNECOLOGY and OBSTETRICS | 11 | 12 | Ocak-2025 |
| 19. | Yarıyıl (Semester) | | | | | 13 | 14 | 15 | 16 | 17 | | 18 | 19 | January-2025 |
| 20. | | | | | | 20 | 21 | 22 | 23 | 24 | | 25 | 26 | |
| 21. | Nöroloji | Neurology | Üroloji | İç Hastalıkları<br>Enfeksiyon Hastalıkları | Genel Cerrahi<br>Çocuk Cerrahisi | 27 | 28 | 29 | 30 | 31 | | 1 | 2 | |
| 22. | | | | | | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | |
| 23. | | | Kadın Hastalıkları ve Doğum | | | 10 | 11 | 12 | 13 | 14 | ÜROLOJİ | 15 | 16 | Şubat-2025<br>February-2025 |
| 24. | Beyin ve Sinir Cerrahisi | Neurosurgery | | | | 17 | 18 | 19 | 20 | 21 | | 22 | 23 | |
| 25. | | | | | | 24 | 25 | 26 | 27 | 28 | NÖROLOJİ - BEYİN ve SİNİR CERRAHİSİ<br>NEUROLOGY - NEUROSURGERY | 1 | 2 | |
| 26. | Kardiyoloji | Cardiology | | | | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | |
| 27. | | | | | | 10 | 11 | 12 | 13 | 14 | GENEL CERRAHİ - ÇOCUK CERRAHİSİ | 15 | 16 | |
| 28. | | | | | Anesteziyoloji ve Reanimasyon | 17 | 18 | 19 | 20 | 21 | KARDİYOLOJİ<br>CARDIOLOGY | 22 | 23 | Mart-2025<br>March-2025 |
| 29. | Kalp ve Damar Cerrahisi | Cardiovascular Surgery | | | | 24 | 25 | 26 | 27 | 28 | İÇ HASTALIKLARI- ENFEKSİYON HASTALIKLARI<br>ANESTEZİYOLOJİ ve REANİMASYON<br>KALP ve DAMAR CERRAHİSİ<br>CARDIOVASCULAR SURGERY<br>KADIN HASTALIKLARI ve DOĞUM | 29 | 30 | |
| 30. | Genel Cerrahi<br>Çocuk Cerrahisi | General Surgery<br>Pediatric Surgery | Nöroloji | Üroloji | İç Hastalıkları<br>Enfeksiyon Hastalıkları | 31 | 1 | 2 | 3 | 4 | | 5 | 6 | |
| 31. | | | | | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 | Nisan-2025<br>April-2025 |
| 32. | | | | | | 14 | 15 | 16 | 17 | 18 | ÜROLOJİ | 19 | 20 | |
| 33. | | | Beyin ve Sinir Cerrahisi | Kadın Hastalıkları ve Doğum | | 21 | 22 | 23 | 24 | 25 | | 26 | 27 | |
| 34. | | | | | | 28 | 29 | 30 | 1 | 2 | NÖROLOJİ - BEYİN ve SİNİR CERRAHİSİ | 3 | 4 | |
| 35. | | | Kardiyoloji | | | 5 | 6 | 7 | 8 | 9 | | 10 | 11 | |
| 36. | | | | | | 12 | 13 | 14 | 15 | 16 | GENEL CERRAHİ - ÇOCUK CERRAHİSİ<br>GENERAL SURGERY – PEDIATRIC SURGERY | 17 | 18 | Mayıs-2025<br>May-2025 |
| 37. | Anesteziyoloji ve Reanimasyon | Anesthesiology and Reanimation | | | | 19 | 20 | 21 | 22 | 23 | KARDİYOLOJİ | 24 | 25 | |
| 38. | | | Kalp ve Damar Cerrahisi | | | 26 | 27 | 28 | 29 | 30 | İÇ HASTALIKLARI- ENFEKSİYON HASTALIKLARI<br>ANESTEZİYOLOJİ ve REANİMASYON<br>ANESTHESIOLOGY and REANIMATION<br>KALP ve DAMAR CERRAHİSİ<br>KADIN HASTALIKLARI ve DOĞUM | 31 | 1 | |

## CLINICAL THEORETICAL COURSE and PRACTICE METHODS

Clinical education of phase IV medical students includes theoretical courses and practical applications. The clinics' theoretical and practical applications are prepared per the "**National Core Education Program for Medical Education**." The clinical course and practice board (CCPB) program include theoretical lectures, general bedside practical training (bedside rounds), case- based education, student case preparation and presentation, seminars, and a student polyclinic.

1. **Theoretical courses**: Lectures are given by faculty members,
2. **Case-based education:** Conducted under the supervision of faculty members.
3. **Student] outpatient clinic:** Patient outpatient clinic is held together with faculty members,
4. **General bedside rounds:** Bedside student rounds are conducted with the faculty member. Students are also encouraged to participate in regular clinical rounds undertaken by faculty members,
5. **Seminar:** Students may prepare seminars under the supervision of faculty members,
6. **Postgraduate education program planned at the clinic or hospital level (educational activities such as panel, conference, seminar, literature presentation, mortality hour, etc.):** Students are encouraged to participate in in- clinic or hospital-wide postgraduate education programs.
7. **Examination:** According to the Lokman Hekim University Faculty of Medicine Education and Examination Regulations, CCPB examinations at the end of the internship by the relevant departments consists of diagnostic (pre-evaluation) at the beginning of the CCPB, formative (interim evaluation) during the CCPB, theoretical exam and objective structured clinical exams at the end of the CCPB.
    a. To be successful in the CCPB, the decision-maker assessment score must be at least 60.
    b. The decision-maker assessment score is the sum of **the theoretical** and **objective structured clinical (practical)** examinations that cover the content of the CCPB training. The effect of each exam on the decision-maker assessment score is 50%, provided that at least 50 (fifty) is obtained from each exam. Theoretical exams must be taken. In the presence of an acceptable excuse, with the request of the departments and the decision of the faculty board of directors, structured oral exams are held if objective structured clinical exams cannot be held.
    c. **Theoretical exam:** It refers to the written (theoretical) exam conducted to measure

knowledge at different levels. Theoretical exams are conducted through an electronic system to be determined by the faculty board of directors. The number of questions is determined to be at least 50 (fifty) and not less than the number of theoretical courses taught in the CCPB. At the end of the theoretical exams, it is obligatory to give information about the correct answers and explanations of the question. The contribution of the diagnostic (pre-assessment) exam/exams to the theoretical exam is 5% of the average of the scores obtained, the contribution of the formative (mid-term evaluation) exam/exams to the theoretical exam is 15% of the average of the scores obtained and 80% of the score obtained from the theoretical exam is summed up and the theoretical exam grade is calculated. If there is no diagnostic (pre-assessment) exam, 20% of the average of the scores obtained from the formative (midterm) exam(s) and 80% of the score obtained from the theoretical exam are added together, and the theoretical grade is calculated. Without a diagnostic (pre-assessment) and formative (mid-term evaluation) exam, the score obtained from the theoretical exam is 100%, and the theoretical exam grade is calculated. With the decision of the faculty board of directors, the weights of different exam types can be changed in calculating the internship board success grade to be announced at the beginning of the internship board. Diagnostic (preliminary evaluation) and formative (interim evaluation) exams are mandatory in internships that exceed one week.

d. **Objective structured clinical (practice/practical) exam:** It refers to a valid measurement and evaluation method used to assess the student's readiness to apply the competencies related to the CCPB, such as communication, knowledge, technical skills, and clinical reasoning at the desired level expected from them during clinical practice.

# 1. INTERNAL MEDICINE

**PURPOSE:**

This course aims to enable physicians in primary health care to approach the common symptoms, signs, and diseases related to internal medicine in a conscious and well-equipped manner. Physician candidates who complete this theoretical and practical clinical course will be able to make a preliminary diagnosis and/or diagnosis of diseases, treat and emergency interventions of these patients at the primary care level, and refer the patient to the relevant specialist when necessary. Will be able to follow up on the diseases planned to be treated by the specialist at the primary care level and will be able to apply prevention and preventive measures for necessary diseases.

**LEARNING OBJECTIVES:**

1. Take a medical history from patients according to their complaints and conditions, perform the necessary physical examination, and differentiate patients who can be treated and followed up in primary care. Request the required tests to diagnose these patients and interpret the results.
2. Directs the patient to the appropriate specialty in cases requiring specialized knowledge and skills.
3. Defines emergencies related to internal diseases, applies emergency treatments if necessary, and refers the patient to the relevant specialist if necessary.
4. Follows the treatments planned by the specialist physicians in line with the patient's diagnosis, evaluates the adverse effects of the treatments, and refers the patient to the specialist when necessary.
5. Follow the side effects of the drugs used in treatment and changes in disease findings, decide on treatment changes when necessary, and refer the patient to the appropriate specialist.
6. Manages the measures and practices required for preventive health services.
7. Follows up on chronic diseases, interprets the results of the examinations requested during follow-up, and refers to the relevant specialist in case of medical necessity.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of internal medicine | **3** |
| Abdominal examination | **4** |
| Consciousness assessment | **4** |
| Rectal examination | **3** |
| Evaluation of general condition and vital signs | **4** |
| Cardiovascular system examination | **4** |
| Respiratory system examination | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of internal diseases | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to prepare fecal smear and make microscopic examination | **3** |
| To be able to evaluate direct radiographs in terms of internal diseases | **3** |
| To be able to take and evaluate ECG | **3** |
| To be able to perform fecal occult blood examination | **4** |
| To be able to measure and evaluate blood glucose with glucometer | **4** |

| | |
|---|---|
| To be able to measure and evaluate bleeding time | **2** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| Ability to use and evaluate a peak-flow meter | **3** |
| To be able to make and evaluate peripheral smear | **3** |
| To be able to perform and evaluate complete urine analysis (including microscopic examination) | **3** |
| To be able to interpret the results of screening and diagnostic examinations for internal diseases | **3** |
| **Interventional and non-interventional applications** | |
| Manage forensic cases in terms of internal medicine | **3** |
| Airway application | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Arterial blood gas taking | **3** |
| Balloon mask (ambu) use | **4** |
| Ability to open an intravenous line | **3** |
| Ability to apply defibrillation | **4** |
| Recognize/protect/transplant evidence in terms of internal diseases | **2** |
| Ability to intubate | **3** |
| To be able to evaluate Glasgow/AVPU coma scale | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of internal diseases | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| Ability to insert a urinary catheter | **3** |
| To be able to provide advanced life support | **3** |
| Suicide intervention | **2** |
| Ability to measure blood pressure | **4** |
| Tick extraction | **3** |
| To be able to do blood transfusion | **3** |
| Ability to take samples for culture | **3** |
| Ability to make enema | **3** |

| | |
|---|---|
| Minimental condition examination | **3** |
| To be able to apply nasogastric catheter | **3** |
| To be able to apply oxygen and nebul-inhaler therapy | **4** |
| To be able to apply and evaluate pulse oximetry | **4** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| To be able to evaluate pulmonary function tests | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic health examinations for internal medicine (metabolic diseases, vaccination of risk groups, cancer screening) | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| **Principles and practices of scientific research (**in terms of Internal Medicine**)** | |
| To be able to compile scientific data and summarize them in tables and graphs, | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |
| **Healthfulness** | |
| Follow-up and periodic health examinations at different stages of life (adolescence, adulthood, old age) | **4** |
| Healthy eating | **4** |

| **THEORETICAL LECTURES** | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IMT1** | Taking anamnesis and basic principles in internal medicine | **DT-E-P-F** | **1** |
| **IMT2** | Physical examination in internal medicine (Endocrinologic, Hematologic, Rheumatologic, Neurological) | **4** | **1** |
| **IMT3** | Respiratory System Examination | **4** | **1** |
| **IMT4** | Cardiovascular System Examination | **4** | **1** |

| THEORETICAL COURSES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IMT5** | Gastrointestinal system examination | **4** | **1** |
| **IMT6** | Evaluation of history, examination, and diagnostic tests in the nephrologic patient | **4** | **1** |
| **IMT7** | Dehydration, acute kidney injury and crush syndrome | **D-E-P** | **2** |
| **IMT8** | Acid-base balance disorders | **E** | **1** |
| **IMT9** | Fluid and electrolyte balance disorder | **D-E-P** | **1** |
| **IMT10** | Nephrotic syndrome<br>Acute glomerulonephritis | **D-E** | **1** |
| **IMT11** | Chronic glomerulonephritis | **PreD** | **1** |
| **IMT12** | Tubulointerstitial diseases | **PreD** | **1** |
| **IMT13** | Chronic kidney disease*<br>Renal replacement therapies | **D-E-P-F** | **2** |
| **IMT14** | Hypothalamus-Pituitary axis | **3** | **1** |
| **IMT15** | Pituitary disorders<br>Diabetes insipitus | **PreD**<br>**PreD** | **1** |
| **IMT16** | Cushing's disease | **PreD** | **1** |
| **IMT17** | Obesity*<br>Metabolic syndrome | **D-P-F**<br>**D-P-F** | **1** |
| **IMT18** | Dyslipidemia | **DT-P-F** | **1** |
| **IMT19** | Hepatosteatosis | **PreD** | **1** |
| **IMT20** | Adrenocortical insufficiency | **PreD-E** | **1** |
| **IMT21** | Pheochromocytoma<br>Paraganglioma<br>Insulinoma and multiple endocrine neoplasms | **PreD**<br>**PreD**<br>**PreD** | **1** |
| **IMT22** | Congenital adrenal hyperplasia | **PreD** | **1** |
| **IMT23** | Hypothyroidism<br>Goiter* | **DT-F**<br>**D-P-F** | **1** |
| **IMT24** | Hyperthyroidism | **D-E-F** | **1** |
| **IMT25** | Thyroiditis | **PreD** | **2** |
| **IMT26** | Approach to thyroid nodules | **PreD** | **1** |
| **IMT27** | Parathyroid gland diseases;<br>Hyperparathyroidism, Hypoparathyroidism<br>Calcium Metabolism disorders; | **PreD**<br>**PreD**<br>**DT-E-P-F** | **2** |

| THEORETICAL COURSES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IMT28** | Vitamin D deficiency<br>Osteoporosis | **DT-P-F**<br>**PreD-P** | **1** |
| **IMT29** | Diabetes mellitus<br>Gestational diabetes | **DT-P-F**<br>**D-P-F** | **2** |
| **IMT30** | Acute complications of diabetes<br>Hypoglycemia*<br>Chronic complications of diabetes | **D-E**<br>**E**<br>**PreD-P-F** | **4** |
| **IMT31** | Clinical anatomy of the gastrointestinal tract | **3** | **1** |
| **IMT32** | Gastro-esophageal reflux | **DT-P-F** | **1** |
| **IMT33** | Peptic diseases (ulcer, gastritis)* | **DT-P-F** | **1** |
| **IMT34** | Upper gastrointestinal bleeding* | **D-E** | **1** |
| **IMT35** | Acute pancreatitis<br>Chronic pancreatitis | **E**<br>**PreD-P** | **1** |
| **IMT36** | Gastrointestinal motility disorders<br>Irritable bowel disease* | **PreD**<br>**PreD-P-F** | **1** |
| **IMT37** | Inflammatory bowel disease | **PreD-P** | **1** |
| **IMT38** | Familial Mediterranean fever | **PreD-P-F** | **1** |
| **IMT39** | Malabsorption<br>Malnutrition | **PreD-P**<br>**DT-P-F** | **1** |
| **IMT40** | Acute hepatitis<br>Chronic hepatitis | **PreD-P** | **2** |
| **IMT41** | Hepatic cirrhosis<br>Hepatic coma<br>Portal hypertension<br>Wilson's Disease | **PreD-P**<br>**E**<br>**PreD**<br>**PreD** | **2** |
| **IMT42** | Biliary tract and gallbladder diseases | **PreD-P-E** | **1** |
| **IMT43** | Primary biliary cirrhosis<br>Primary sclerosing cholangitis | **PreD** | **1** |
| **IMT44** | Iron deficiency anemia*<br>Megaloblastic anemia | **DT-E-P-F**<br>**DT-P-F** | **2** |
| **IMT45** | Hemoglobinopathies | **PreD-P** | **1** |
| **IDH46** | Hemolytic anemia | **PreD** | **1** |
| **IMT47** | Bleeding disorders<br>Bleeding diathesis and Hemophilias<br>Vitamin K deficiency | **PreD-P-F**<br>**PreD**<br>**E-P** | **1** |

| THEORETICAL COURSES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IMT48** | Thrombotic thrombocytopenic purpura<br>Idiopathic thrombocytopenic purpura | **PreD**<br>**PreD** | **1** |
| **IMT49** | Hemolytic uremic syndrome<br>Henoch-Schönlein purpura | **PreD**<br>**PreD** | **1** |
| **IMT50** | Disseminated intravascular coagulation | **PreD-E** | **1** |
| **IMT51** | Leukemias | **PreD** | **1** |
| **IMT52** | Lymphoproliferative diseases | **PreD** | **1** |
| **IMT53** | Myeloproliferative disorders<br>Plasma Cell Diseases | **PreD**<br>**PreD** | **1** |
| **IMT54** | Aplastic anemia<br>Polycythemia | **PreD**<br>**D** | **1** |
| **IMT55** | General approach to the patient with cancer: Clinical evaluation, diagnostic procedures, staging and treatment methods | **PreD-E** | **1** |
| **IMT56** | Oncologic emergencies and treatment approaches | **E** | **1** |
| **IMT57** | Chemotherapeutic drugs: Mechanisms of action, classification, side effects | **2** | **1** |
| **IMT58** | Targeted therapies in cancer and immunotherapy | **2** | **1** |
| **IMT59** | Common cancers (lung, breast, stomach and prostate) | **PreD-E** | **1** |
| **IMT60** | Principles of palliative care in cancer treatment and side effect management | **3** | **1** |
| **IMT61** | Geriatric syndromes | **PreD-E-P-F** | **1** |
| **IMT62** | Gut | **PreD-P** | **1** |
| **IMT63** | Seronegative Spondyloarthropathies | **PreD** | **1** |
| **IMT64** | Rheumatoid arthritis | **PreD** | **1** |
| **IMT65** | Sjögren's Syndrome | **PreD** | **1** |
| **IMT66** | Reynaud's Disease | **PreD** | **2** |
| **IMT67** | Systemic lupus erytomatosis | **PreD** | **2** |
| **IMT68** | Vasculitis and related diseases | **PreD** | **2** |
| **IMT69** | Scleroderma | **PreD** | **1** |

| | | | |
|---|---|---|---|
| **IMT70** | Polymyositis and dermatomyositis | **PreD** | **1** |
| **IMT71** | Heat stroke<br>Frostbite (from cold) and frostbite | **D-E-F**<br>**D-E-F** | **1** |

| THEORETICAL COURSES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IMT72** | Approach to the patient in shock | **PreD-E** | **1** |
| **IMT73** | Metabolic comas | **PreD-E** | **1** |
| **IMT74** | Acute poisoning | **PreD-E** | **3** |
| | | **TOTAL** | **90** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Ability to take a history | **4** |
| Case discussion | **4** |
| Evaluation of vital signs | **4** |
| Head and neck examination | **4** |
| Cardiovascular system examination | **4** |
| Respiratory system examination | **4** |
| Gastrointestinal system examination | **4** |
| Examination of skin, extremities, genitourinary system | **4** |
| Hematologic evaluation; peripheral smear and bone marrow* | **3** |
| Arterial blood gas collection and interpretation | **3** |
| Blood glucose measurement with glucometer | **4** |
| To be able to measure and evaluate bleeding time | **4** |

*Can be done in cases where suitable patients can be found

# 2. INFECTIOUS DISEASES

**PURPOSE:**

With the "*Infectious Diseases Clinical Course and Practice Board*", phase IV students will be able to diagnose important and common infectious diseases that may require urgent intervention, pre- diagnosis or diagnosis of diseases, treatment and emergency interventions of these patients at the primary care level and send the patient to the specialist when necessary. Will be able to follow up on the infections planned to be treated by the primary care specialist, notify notifiable diseases, apply prevention measures of infectious diseases, take part in the fight against epidemics, make contact and carrier follow-up, and use prevention measures.

**LEARNING OBJECTIVES:**

1. Takes history from patients, performs physical examination, can question the symptoms of infectious diseases during the examination, recognizes the symptoms of infectious diseases during the examination, requests the necessary tests in the first stage, interprets the results, treats simple problems, knows which patients should be evaluated by a specialist,
2. Identifies patients to be followed up in primary care, evaluates complete blood count results and peripheral blood smear, makes comments on the results, takes appropriate culture samples from patients for diagnosis,
3. Notifies patients for whom notification is mandatory,
4. Takes part in the fight against national or regional epidemics,
5. Evaluates the patient with fever and refers to the specialist, when necessary,
6. Evaluates the infections to be treated in severe and inpatient treatment institutions, perform first interventions, and make referrals, if necessary,
7. Knows the infections that can be prevented by vaccination and makes vaccine applications,
8. Knows the treatment principles and indications of antimicrobials to be used, especially in primary care, and evaluates the spectrum of action, routes of administration, and side effects of these drug groups.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of infectious diseases | **3** |
| Abdominal examination | **4** |
| Consciousness assessment | **4** |
| Rectal examination | **3** |
| Evaluation of general condition and vital signs | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of infectious diseases | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to apply the principles of working with biological material | **4** |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to prepare fecal smear and make microscopic examination | **3** |
| To be able to evaluate direct radiographs in terms of infectious diseases | **3** |
| To be able to take and evaluate ECG | **3** |
| To be able to perform fecal occult blood examination | **4** |
| To be able to measure and evaluate blood glucose with glucometer | **4** |
| To be able to measure and evaluate bleeding time | **2** |
| To be able to fill the request form for laboratory examination | **4** |

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|---|---|
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| Ability to use a microscope | **4** |
| To be able to make and evaluate peripheral smear | **3** |
| To be able to perform and evaluate complete urine analysis (including microscopic examination) | **3** |
| To be able to interpret the results of screening and diagnostic examinations for infectious diseases | **3** |
| **Interventional and non-interventional applications** | |
| To be able to manage forensic cases in terms of infectious diseases | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Arterial blood gas taking | **3** |
| Ability to open an intravenous line | **3** |
| Recognize/protect/transplant evidence in terms of infectious diseases | **2** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of infectious diseases | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| Ability to insert a urinary catheter | **3** |
| To provide advanced life support | **3** |
| Ability to measure blood pressure | **4** |
| Tick extraction | **3** |
| To be able to do blood transfusion | **3** |
| Ability to take samples for culture | **3** |
| Ability to make enema | **3** |
| Ability to perform lumbar puncture | **1** |
| Minimental condition examination | **3** |
| To be able to apply nasogastric catheter | **3** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| To be able to provide immunization counseling | **4** |

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|---|---|
| To be able to carry out immunization services | **4** |
| Periodic health examinations for infectious diseases (metabolic diseases, vaccination of risk groups, cancer screenings) | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| Taking measures to prevent infections in collective living spaces | **4** |
| To be able to fight against infectious diseases in society | **3** |
| **Principles and practices of scientific research (**In terms of Infectious Diseases**)** | |
| To be able to compile scientific data and summarize them in tables and graphs, | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |
| **Healthfulness** | |
| Immunization in adults | **4** |
| Follow-up and periodic health examinations at different stages of life (adolescence, adulthood, old age) | **4** |

| **THEORETICAL LECTURES** | | | |
|---|---|---|---|
| **LECTURE KODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **IDT1** | Fever and approach to the febrile patient | **E-DT** | **1** |
| **IDT2** | Skin and soft tissue infections, abscesses* | **DT-P-F** | **1** |
| **IDT3** | Urinary tract infections* | **DT-P** | **1** |
| **IDT4** | Pneumonias: diagnostic and therapeutic approaches | **E-DT-P** | **1** |
| **IDT5** | Central nervous system infections; diagnosis and treatment approaches | **E-P** | **1** |
| **IDT6** | Sepsis | **E-T** | **1** |
| **IDT7** | Necrotizing soft tissue infections and gauze gangrene | **E** | **1** |
| **IDT8** | New and re-emerging infections (COVID-19) | **E-P** | **1** |
| **IDT9** | Prevention of healthcare-associated infections | **E-P** | **3** |
| **IDT10** | Infections caused by injuries and bites | **DT-P** | **1** |

| | | | |
|---|---|---|---|
| **IDT11** | Zoonoses Tularemia and CCHF | **E-D-P** | **1** |
| **IDT12** | Travel medicine and immunization | **D-P** | **1** |
| **IDT13** | Acute Gastroenteritis | **DT-E-P** | **1** |
| **IDT14** | Principles of antimicrobial therapy | **3** | **1** |
| **IDT15** | Antimicrobials and their clinical uses | **3** | **6** |
| **IDT16** | HIV/AIDS | **PreD-P** | **1** |
| **IDT17** | Brucellosis | **DT-P** | **1** |
| **IDT18** | Upper respiratory tract infections and influenza | **DT-P** | **1** |
| | | **TOTAL** | **25** |

| **EDUCATIONAL ACTIVITIES IN PRACTICE** | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Case discussion from history to treatment | **4** |
| Hand washing | **4** |
| Sampling for culture | **3** |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **3** |
| Use personal protective equipment | **3** |
| Smear preparation and microscopic examination of biological materials | **3** |
| Notification of infectious diseases | **4** |

# 3. GENERAL SURGERY and PEDIATRIC SURGERY

**PURPOSE:**

With the "*General Surgery and Pediatric Surgery Clinical Course and Practice Boards*" 4th- year students will be able to take history, perform physical examination, request appropriate tests, and make a preliminary diagnosis in cases related to general surgery that they may encounter in primary health care services. They will be able to perform emergency intervention and treatment of surgical diseases and problems under current conditions and refer them to a higher level when necessary.

**LEARNING OBJECTIVES:**

1. Takes history and performs physical examination in cases related to general surgery and pediatric surgery,
2. Requests the necessary laboratory tests and selects imaging methods by combining the anamnesis and physical examination findings with the training received,
3. İnterprets the results of examinations. Identifies emergency patients, initiates treatment and sends the necessary patients to a specialist or higher level,
4. Organizes the treatment and follow-up of patients who can be treated in primary care,
5. Carries out primary care and follow-up of patients who have undergone surgical operations, and refers them to a specialist, when necessary,
6. Sutures simple incisions. Performs minor surgical procedures (such as abscess drainage) when necessary,
7. Makes the necessary wound care and dressings for simple injuries,
8. Evaluate the risk factors that cause diseases related to general surgery, considering the individual's environment. Informs patients about prevention methods and precautions.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of general surgery and pediatric surgery | **3** |
| Abdominal examination | **4** |
| Consciousness assessment | **4** |
| Rectal examination | **3** |
| Evaluation of general condition and vital signs | **4** |
| Examination of the breast and axillary region | **3** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of general surgery and pediatric surgery | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to evaluate direct radiographs in terms of general surgery and pediatric surgery | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| In terms of general surgery and pediatric surgery interpret the results of screening and diagnostic examinations | **3** |
| **Interventional and non-interventional applications** | |
| To be able to manage forensic cases in terms of general surgery and pediatric surgery | **3** |

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| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Evaluation of multiple trauma patients | **3** |
| Ability to open an intravenous line | **3** |
| To be able to recognize/protect/transplant evidence in terms of general surgery and pediatric surgery | **2** |
| Ability to open skin-soft tissue abscess | **3** |
| To be able to take measures to stop/limit external bleeding | **3** |
| Hand washing | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of general surgery and pediatric surgery | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| Ability to insert a urinary catheter | **3** |
| Ability to measure blood pressure | **4** |
| Ability to take samples for culture | **3** |
| Ability to make enema | **3** |
| To be able to apply nasogastric catheter | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| To be able to do side-wound care | **3** |
| Ability to suture and remove superficial sutures | **4** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for general surgery and pediatric surgery (metabolic diseases, cancer screening) | **4** |
| To be able to teach breast self-examination | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| **Principles and practices of scientific research** **(**in terms of General Surgery and Pediatric Surgery**)** | |
| To be able to compile scientific data and summarize them in tables and graphs, | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |

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| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |
| **Healthfulness** | |
| Follow-up and periodic health examinations at different stages of life (adolescence, adulthood, old age) | **4** |

| THEORETICAL LECTURES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **GST1** | Introduction to surgery and surgical examination | **3** | **1** |
| **GST2** | Surgical hand washing, surgical protection use of equipment | **3** | **1** |
| **GST3** | Asepsis, antisepsis, sterilization, disinfection | **3** | **1** |
| **GST4** | Intraabdominal infections and abscesses | **PreD-E** | **2** |
| **GST5** | Acute abdomen, peritonitis, acute appendicitis | **E-D-F** | **1** |
| **GST6** | Surgical soft tissue infections and treatments | **E-DT-P-F** | **1** |
| **GST7** | Wound healing, endocrine response to trauma metabolic response | **PreD-E** | **2** |
| **GST8** | Abdominal trauma, bleeding, shock, transfusion | **PreD-E** | **2** |
| **GST9** | Transfusion, use of blood and blood products and complications | **E-D** | **1** |
| **GST10** | Fluid electrolyte balance disorders treatment | **D-E-P** | **2** |
| **GST11** | Treatment of acid base balance disorders | **D-E-P** | **2** |
| **GST12** | Assessment of nutritional status and nutrition in surgery | **DT-P-F** | **2** |
| **GST13** | Benign surgical diseases of the colon, diverticular disease, volvulus | **PreD-P** | **2** |
| **GST14** | Colon polyps | **PreD-P** | **1** |
| **GST15** | Inflammatory bowel diseases | **PreD-E-F** | **1** |
| **GST16** | Upper gastrointestinal bleeding | **D-E** | **1** |

| | | | |
|---|---|---|---|
| **GST17** | Lower gastrointestinal bleeding | **D-E** | **1** |

| | | | |
|---|---|---|---|
| **GST18** | Colorectal tumors | **PreD-P** | **2** |
| **GST19** | Anorectal benign diseases | **D-P-F** | **2** |
| **GST20** | Surgical diseases of the small intestine | **PreD-E** | **2** |
| **GST21** | Acute intestinal obstructions | **PreD-E** | **1** |
| **GST22** | Ileus | **PreD-E** | **1** |
| **GST23** | Benign diseases of the esophagus | **D-P** | **1** |
| **GST24** | Benign diseases of the stomach and duodenum | **DT-P-F** | **1** |
| **GST25** | Gastroesophageal reflux disease, hiatal hernia | **DT-P-F**<br>**PreD-F** | **1** |
| **GST26** | Malignant diseases of the esophagus | **PreD-P** | **1** |
| **GST27** | Stomach cancer | **PreD-P** | **2** |
| **GST28** | Obesity and surgery | **D-P-F** | **1** |
| **GST29** | Abdominal wall hernias, Inguinal hernias | **E-D** | **2** |
| **GST30** | Benign surgical diseases of the liver and cysts | **PreD-D-P** | **1** |
| **GST31** | Primary and metastatic tumors of the liver | **PreD-D** | **1** |
| **GST32** | Gallbladder diseases | **PreD-E** | **1** |
| **GST33** | Extrahepatic biliary tract diseases | **PreD-E** | **1** |
| **GST34** | Obstructive jaundice | **PreD-E** | **1** |
| **GST35** | Benign diseases of the pancreas and neuroendocrine tumors | **PreD-E-P** | **1** |
| **GST36** | Pancreatic cancer | **PreD-E** | **1** |
| **GST37** | Organ transplantation and basic principles | **F** | **2** |
| **GST38** | Surgical diseases of the spleen | **PreD-E** | **2** |
| **GST39** | Surgical diseases of the thyroid gland | **D-F** | **2** |
| **GST40** | Surgical diseases of the parathyroid | **PreD** | **2** |
| **GST41** | Surgical diseases of the surrenal gland | **PreD** | **2** |
| **GST42** | Benign breast diseases and precancerous breast lesions | **PreD-P** | **2** |
| **GST43** | Breast cancer and surgery | **PreD-P** | **2** |
| **GST44** | Retroperitoneal tumors and malignant mesenchymal tumors | **PreD** | **2** |
| **GST45** | Pulmonary thromboembolism | **PreD-E** | **1** |

| | | | |
|---|---|---|---|
| **GST46** | Mesenteric vascular diseases, Mesenteric ischemia | **PreD-E** | **1** |
| **GST47** | Burns | **E-D-F** | **2** |
| **PST48** | Gastroinstestinal congenital anomalies | **PreD** | **2** |
| **PST49** | Acute abdomen in children | **PreD-E** | **2** |
| **PST50** | Trauma in children | **PreD-E** | **2** |
| | | **TOTAL** | **74** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Ability to take a history | **4** |
| Case discussion | **4** |
| Evaluation of vital signs | **4** |
| Head and neck examination | **4** |
| Abdominal examination | **4** |
| Wound care and dressing | **3** |

# 4. ANESTHESIOLOGY and REANIMATION

**PURPOSE:**

With the "*Anesthesiology and Reanimation Clinical Course and Practice Board*", phase IV students will have knowledge about anesthesia and intensive care practices and will be able to make a preliminary diagnosis or diagnosis of critical illnesses that require rapid intervention. They will learn the basics of anesthesia methods, properties of drugs used in anesthesia, critical illness and critical patient care.

**LEARNING OBJECTIVES:**

1. Makes the definition of anesthesia,
2. Explains the indications for anesthesia and ways of giving anesthesia,
3. Can diagnose laryngeal spasm and perform first intervention,
4. Explain the pharmacological properties of inhalation anesthetics,
5. Explains the pharmacological properties of local anesthetics,
6. Diagnoses a patient with respiratory failure,
7. Explains and interprets the properties of oxygen uptake and transport, oxyhemoglobin dissociation curve,
8. Explains the indications and application methods of oxygen therapy,
9. Defines the concepts of death and brain death,
10. Explain the definition and indications of palliative care.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Consciousness assessment | **4** |

| | |
|---|---|
| Evaluation of general condition and vital signs | **4** |
| Cardiovascular system examination | **4** |
| Respiratory system examination | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of anesthesiology and reanimation | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to evaluate direct radiographs in terms of anesthesiology and reanimation | **3** |
| To be able to take and evaluate ECG | **3** |
| To be able to measure and evaluate blood glucose with glucometer | **4** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| Ability to use and evaluate a peak-flow meter | **3** |
| To be able to interpret the results of screening and diagnostic examinations in terms of anesthesiology and reanimation | **3** |
| **Interventional and non-interventional applications** | |
| Airway application | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Arterial blood gas taking | **3** |
| Balloon mask (ambu) use | **4** |
| Evaluation of multiple trauma patients | **3** |
| Ability to open an intravenous line | **3** |
| Ability to apply defibrillation | **4** |

| | |
|---|---|
| Ability to intubate | **3** |
| To be able to evaluate Glasgow/AVPU coma scale | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of anesthesiology and reanimation | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| Ability to insert a urinary catheter | **3** |
| To be able to provide advanced life support | **3** |
| Ability to measure blood pressure | **4** |
| To be able to do blood transfusion | **3** |
| Capillary blood sampling | **4** |
| Ability to make enema | **3** |
| Minimental condition examination | **3** |
| To be able to apply nasogastric catheter | **3** |
| To be able to apply oxygen and nebul-inhaler therapy | **4** |
| To be able to apply and evaluate pulse oximetry | **4** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| To be able to evaluate pulmonary function tests | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| **Principles and practices of scientific research (**in terms of Anesthesiology and Reanimation**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| THEORETICAL COURSES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **ART1** | Basic overview of anesthesia | **PreD** | **1** |
| **ART2** | Oxygen transport and oxygen therapy | **D** | **1** |
| **ART3** | Ensuring airway patency | **D** | **1** |
| **ART4** | Ways of administering anesthesia | **PreD** | **1** |
| **ART5** | Inhalation anesthetics | **PreD** | **1** |
| **ART6** | Local anesthetics | **PreD** | **1** |
| **ART7** | Laryngeal ostriction | **E** | **1** |
| **ART8** | Palliative care | **PreD** | **1** |
| **ART9** | Respiratory failure | **E** | **1** |
| **ART10** | Brain death and organ donation | **PreD** | **1** |
| **ART11** | Cardiopulmonary resuscitation | **3** | **1** |
| | | **TOTAL** | **11** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Vascular access and patient monitoring | **2** |
| Behavior and sterilization in the operating room | **3** |
| Introduction of devices and medicines used for emergency intervention | **2** |
| Introducing intensive care and patient monitoring | **2** |

# 5. CARDIOLOGY

**PURPOSE**:

With the "*Cardiology Clinical Course and Practice Board*", phase IV students will gain the ability to take the history of patients with essential and common cardiovascular diseases that may require urgent intervention, to perform physical examination, to request the necessary tests for diagnosis and preliminary diagnosis in primary care, to make differential diagnosis and diagnosis, to treat and emergency interventions of these patients at the primary level, and to send the patient to the next level by providing appropriate conditions and conditions when necessary.

**LEARNING OBJECTIVES:**

1. Explains the importance and risk factors of cardiovascular diseases for public health, informs and guides patients correctly in prevention and treatment,
2. Explain the clinical features of cardiovascular diseases and principles of clinical approach,
3. Takes history from the patient with cardiovascular system complaints and performs physical examination of the cardiovascular system,
4. Plans and interprets laboratory tests that will guide diagnosis and treatment at the primary care level based on anamnesis and examination findings,
5. Identifies urgent cardiovascular system diseases, treats them at the primary care level and refers them to a specialist physician under appropriate conditions,
6. Identify patients who need cardiac rehabilitation and refer them to a specialist,
7. Explain the mechanisms of action, indications, contraindications, and interactions of drugs used to treat cardiovascular diseases.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem- oriented history | **4** |
| To be able to evaluate mental status | **3** |

| | |
|---|---|
| **Physical examination for the general problem** | |
| Forensic case examination in terms of cardiology | **3** |
| Consciousness assessment | **4** |
| Evaluation of general condition and vital signs | **4** |
| Cardiovascular system examination | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of cardiology | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to evaluate direct radiographs in terms of cardiology | **3** |
| To be able to take and evaluate ECG | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able to interpret the results of screening and diagnostic examinations in terms of cardiology | **3** |
| **Interventional and non-interventional applications** | |
| Manage forensic cases in terms of cardiology | **3** |
| Airway application | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Arterial blood gas taking | **3** |
| Balloon mask (ambu) use | **4** |
| Ability to open an intravenous line | **3** |
| Ability to apply defibrillation | **4** |
| Recognizing/protecting/transferring evidence in terms of cardiology | **2** |

| | |
|---|---|
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of cardiology | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| To be able to provide advanced life support | **3** |
| Ability to measure blood pressure | **4** |
| Ability to take samples for culture | **3** |
| To be able to perform pericardiocentesis | **1** |
| To be able to apply and evaluate pulse oximetry | **4** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| To be able to evaluate pulmonary function tests | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for cardiology | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| **Principles and practices of scientific research (**in terms of Cardiology**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| **THEORETICAL LECTURES** | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **CT1** | History taking and cardiovascular system examination | **4** | **2** |
| **CT2** | Approach to chest pain | **4** | **2** |
| **CT3** | Basic electrocardiography and coronary artery Electrocardiography in diseases | **3** | **3** |

| THEORETICAL LECTURES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **CT4** | Laboratory and imaging in cardiology methods | **D-E-F** | **2** |
| **CT5** | Chronic coronary artery disease<br>Acute coronary syndrome | **PreD-P-F**<br>**D-E-P** | **3** |
| **CT6** | Endocarditis | **PreD-P** | **2** |
| **CT7** | Myocarditis and Cardiomyopathy | **PreD** | **2** |
| **CT8** | Heart valve disease | **PreD-P** | **3** |
| **CT9** | Heart rhythm disorder | **D-E-F** | **1** |
| **CT10** | Heart failure | **D-E-P-F** | **3** |
| **CT11** | Cardiogenic shock<br>Cardio-pulmonary arrest*<br>Syncope and sudden death | **PreD-E**<br>**PreD-E**<br>**PreD-E-F** | **3** |
| **CT12** | Essential hypertension and secondary hypertension | **DT-E-P-F** | **3** |
| **CT13** | Pericardial diseases | **PreD** | **2** |
| **CT14** | Dyslipidemias | **DT-F** | **2** |
| | | **TOTAL** | **33** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| History taking from patients | **4** |
| Case discussion | **4** |
| ECG, ECHO evaluation | **3** |
| İnterpretation of diagnostic test results | **3** |
| İnterpretation of radiologic tests used in cardiology | **2** |

# 6. CARDIOVASCULAR SURGERY

**PURPOSE**:

Phase IV students with "*Cardiovascular Surgery Clinical C*ourse *and Practice Board*", for important and common cardiovascular diseases that may require emergency intervention; taking history from patients, performing physical examination, requesting the necessary examinations for diagnosis and preliminary diagnosis in primary care, gaining the ability to make differential diagnosis and diagnosis, will be able to treat and emergency interventions of these patients at the primary level, and if necessary, will have the knowledge and skills to send the patient to the next level by providing appropriate conditions and conditions.

**LEARNING OBJECTIVES:**

1. Takes history from patients with cardiovascular system complaints and performs physical examination,
2. Recognize cardiovascular diseases,
3. Diagnoses arterial, venous and lymphatic vascular diseases and vascular anomalies (tumors and malformations),
4. Performs and directs the first intervention of emergency cardiac and vascular diseases,
5. Recognizes congenital surgical heart diseases and guides the patient,
6. Performs follow-up (antithrombotic therapy, etc.) of patients undergoing cardiac and vascular surgery,
7. Explain which patients should be transferred to the surgical intervention center as soon as possible, inform the patient's relatives, and ensure that the patients are transferred under appropriate conditions.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of cardiovascular surgery | **3** |
| Consciousness assessment | **4** |
| Evaluation of general condition and vital signs | **4** |
| Cardiovascular system examination | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of cardiovascular surgery | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to evaluate direct radiographs in terms of cardiovascular surgery | **3** |
| To be able to take and evaluate ECG | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able to interpret the results of screening and diagnostic examinations for cardiovascular surgery | **3** |
| **Interventional and non-interventional applications** | |
| Manage forensic cases in terms of cardiovascular surgery | **3** |
| Airway application | **3** |

| | |
|---|---|
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Arterial blood gas taking | **3** |

| | |
|---|---|
| Balloon mask (ambu) use | **4** |
| Ability to open an intravenous line | **3** |
| Ability to apply defibrillation | **4** |
| Recognize/protect/transplant evidence in terms of cardiovascular surgery | **2** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of cardiovascular surgery | **4** |
| Ability to make IM, IV, SC, ID injections | **4** |
| To provide advanced life support | **3** |
| Ability to measure blood pressure | **4** |
| Ability to take samples for culture | **3** |
| To be able to perform pericardiocentesis | **1** |
| To be able to apply and evaluate pulse oximetry | **4** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| To be able to evaluate pulmonary function tests | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for cardiovascular surgery | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| **Principles and practices of scientific research** **(**in terms of Cardiovascular Surgery**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| THEORETICAL LECTURES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **KVST1** | Surgical approach in cardiovascular diseases | **PreD-E** | **2** |
| **KVST2** | Peripheral arterial diseases | **PreD-E** | **2** |
| **KVST3** | Venous and lymphatic system diseases (Thrombophlebitis and lymphedema) | **PreD-P-F** | **1** |
| **KVST4** | Aortic aneurysm and aortic dissection | **E-PreD** | **2** |
| **KVSD5** | Deep vein thrombosis | **PreD-P-F** | **1** |
| **KVST6** | Surgery in coronary artery disease | **PreD-P-F** | **2** |
| **KSVT7** | Surgery in valvular diseases | **PreD-P-F** | **2** |
| **KVST8** | Carotid artery diseases | **PreD-P-F** | **2** |
| **KSVT9** | Advanced heart failure support therapy and ECMO | **PreD-P-F** | **1** |
| **KVST10** | Surgical treatment of congenital heart disease | **PreD-P-F** | **2** |
| | | **TOTAL** | **17** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| History taking from patients | **4** |
| Case discussion | **4** |
| Evaluation of diagnostic test results | **3** |
| Radiologic tests and interpretation in cardiac surgery | **2** |
| Surgical wound care | **3** |

# 7. NEUROLOGY

**PURPOSE:**

Phase IV students will gain the ability to make an ethical and conscious approach in terms of preliminary diagnosis, differential diagnosis, and preventive medicine practices in neurological problems frequently encountered in primary health care within the framework of the "**National Core Education Program**" for pre-graduate medical education in "*Neurology Clinical Course and Practice Board*". They will have the knowledge and skills to know the etiology, diagnosis, and treatment of common diseases in the field of neurology, determine emergencies, make the first treatment, and refer to a specialist when necessary.

**LEARNING OBJECTIVES:**

1. Takes medical history from patients presenting with neurologic complaints and performs neurologic examination,
2. Defines neurological emergencies,
3. Knows diagnostic tests that can be applied to patients presenting with neurological complaints, selects diagnostic tests that can be used in primary care and makes a preliminary diagnosis,
4. Diagnoses and treats neurological diseases at the primary care level in patients presenting with neurological complaints,
5. Evaluates the patient with neurological complaints, decide to refer them to appropriate centers when necessary and direct them under proper conditions,
6. Explains the common health problems and causes of neurology fields, taking into account the interaction of the individual with the environment,
7. Explain the diagnosis and treatment approaches of neurologic diseases,
8. Explain the practices and precautions for protecting health on an individual and community basis in the fields of neurology

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of neurology | **3** |
| Consciousness assessment | **4** |
| Evaluation of general condition and vital signs | **4** |
| Ophthalmologic examination | **2** |
| Neurological examination | **3** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of neurology | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to evaluate direct radiographs in terms of neurology | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able to interpret the results of screening and diagnostic examinations In terms of neurology | **3** |
| **Interventional and non-interventional applications** | |
| To be able to manage forensic cases in terms of neurology | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Ability to open an intravenous line | **3** |

| | |
|---|---|
| Recognizing/protecting/transferring evidence in terms of neurology | **2** |
| To be able to evaluate Glasgow/AVPU coma scale | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of neurology | **4** |
| Minimental condition examination | **3** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for neurology | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| **Principles and practices of scientific research (**in terms of Neurology**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| **THEORETICAL LECTURES** | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **NT1** | Symptoms and signs seen in neurological disease s, Classification of neurological diseases, Neurological examination and taking anamnesis | **PreD-F** | **2** |
| **NT2** | Neurological Emergencies (Cerebrovascular vascular diseases, Status Epilepticus, Encephalitis) | **PreD** | **1** |
| **NT3** | Headache (Migraine, tension-type headaches, secondary, primary headache syndromes) | **PreD-D-F** | **2** |
| **NT4** | Dizziness and dizziness | **PreD** | **1** |
| **NT5** | Transient ischemic attack and stroke | **E-P-F** | **2** |

| | | | |
|---|---|---|---|
| **NT6** | Facial paralysis | **D-E** | **1** |
| **NT7** | Epilepsy and status epilepticus | **PreD-P-F** | **1** |
| **NT8** | Peripheral neuropathies | **PreD** | **1** |
| **NT9** | Polyneuropathies, Gullian Barre syndrome | **PreD** | **1** |
| **NT10** | Double vision and pupillary abnormality | **PreD** | **3** |
| **NT11** | Multiple sclerosis and optic neuritis | **PreD** | **1** |
| **NT12** | Motor neuron diseases, Syringomyelia | **PreD** | **1** |
| **NT13** | Balance, Gait disorders, Ataxic disorders, Movement disorders | **PreD** | **1** |
| **NT14** | Parkinson's disease, Essential tremor, Tremor | **PreD** | **1** |
| **NT15** | Cognitive disorders, Dementia, Alzhemier's disease | **PreD-P-F** | **2** |
| **NT16** | Myasthenia gravis | **E** | **1** |
| **NT17** | Muscle diseases | **PreD** | **1** |
| **NT18** | Disorders of consciousness, Coma, Brain death | **E** | **1** |
| | | **TOTAL** | **24** |

| **EDUCATIONAL ACTIVITIES IN PRACTICE** | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Ability to take a history | **4** |
| Case discussion | **4** |
| Consciousness assessment Consciousness examination Taking neurological anamnesis | **4** |
| Neurological examination | **4** |
| Neurological examination Mental state-speech Cranial nerve examination Reflexes Motor system Sensory system Cerebellar system Movement disorder examination | **4** |

| | |
|---|---|
| Ability to perform lumbar puncture | **2** |
| Minimental condition examination<br>License inspection<br>Executive system inspection | **3** |
| Auxiliary tests in neurology: EMG, EEG | **1** |

# 8. NEUROSURGERY

**PURPOSE:**

To train physicians with an ethical and conscious approach in preliminary diagnosis, differential diagnosis, and preventive medicine practices in neurosurgery diseases frequently encountered in primary health care within the "**National Core Education Program**" framework for pregraduate medical education. To train physicians with knowledge about the etiology, diagnosis, and treatment of common diseases in neurosurgery and neurosurgery, who can identify and treat them in emergencies and refer them to a specialist when necessary.

**LEARNING OBJECTIVES:**

1. In diseases related to brain and neurosurgery, takes medical history from patients and performs neurological examination,
2. Defines emergencies in diseases related to brain and neurosurgery,
3. Knows diagnostic tests that can be applied to patients, selects diagnostic tests that can be used in primary care and makes a preliminary diagnosis,
4. Evaluates neurological diseases related to neurosurgery and neurosurgery, neurological diseases at the primary care level, decide to refer to appropriate centers when necessary, and directs under proper conditions,
5. Explains the common health problems and causes of neurosurgery areas, taking into account the interaction of the individual with the environment,
6. Explain the diagnosis and treatment approaches of neurosurgery,
7. Explain the techniques of performing minor invasive procedures such as subdural tap, lumbar puncture, and ventricular puncture.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| To be able to evaluate mental status | **3** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of neurosurgery | **3** |
| Consciousness assessment | **4** |
| Evaluation of general condition and vital signs | **4** |
| Neurological examination | **3** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of neurosurgery | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to evaluate direct radiographs in terms of neurosurgery | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able tointerpret the results of screening and diagnostic examinations in terms of neurosurgery | **3** |
| **Interventional and non-interventional applications** | |
| To be able to manage forensic cases in terms of neurosurgery | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| Ability to open an intravenous line | **3** |
| To be able to recognize/protect/transplant evidence in terms of neurosurgery | **2** |

| | |
|---|---|
| To be able to evaluate Glasgow/AVPU coma scale | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of neurosurgery | **4** |
| Minimental condition examination | **3** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for neurosurgery | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| **Principles and practices of scientific research (**in terms of Neurosurgery**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| **THEORETICAL LECTURES** | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **NST1** | Clinical neuroanatomy | **3** | **1** |
| **NST2** | Peripheral nerve trauma and entrapment syndromes | **PreD** | **1** |
| **NST3** | Spinal column trauma and spinal cord injury | **E-PreD** | **2** |
| **NST4** | Spinal degenerative diseases (spinal stenosis, disc hernia) and spinal deformities | **D-P** | **1** |
| **NST5** | Evaluation of increased intracranial pressure syndromes | **E** | **1** |
| **NST6** | Cerebral vascular pathologies | **E** | **4** |
| **NST7** | Diagnosis and differential diagnosis of intracranial space-occupying masses | **PreD** | **1** |
| **NST8** | Central nervous system tumors | **PreD** | **1** |
| **NST9** | Central nervous system and primary spinal infections | **E** | **2** |

| | | | |
|---|---|---|---|
| **NST10** | Pediatric congenital anomalies | **D-P** | **1** |

| | | | |
|---|---|---|---|
| **NST11** | Pediatric cranial and spinal tumors | **PreD** | **2** |
| **NST12** | Functional neurosurgery and radiosurgery | **PreD** | **1** |
| | | **TOTAL** | **18** |

| **EDUCATIONAL ACTIVITIES IN PRACTICE** | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Ability to take a history | **4** |
| Case discussion | **4** |
| Consciousness assessment Consciousness examination Taking neurological anamnesis | **4** |
| Neurological examination Mental state-speech Cranial nerve examination Reflexes Motor system Sensory system Cerebellar system Movement disorder examination | **4** |
| Performing minor invasive procedures such as subdural tap, lumbar puncture, ventricular puncture | **2** |
| Diagnostic methods Diagnostic neuroradiologic evaluations used in neurosurgery | **1** |
| Wound care and dressing | **3** |

# 9. GYNECOLOGY and OBSTETRICS

**PURPOSE:**

To train physicians with an ethical and conscious approach to obstetric and gynecological problems frequently encountered in primary health care regarding preliminary diagnosis, differential diagnosis, and preventive medicine practices within the “National Core Education Program” framework for pregraduate medical education. To train physicians with knowledge about the etiology, diagnosis, and treatment of common diseases in obstetrics and gynecology, who can identify and treat them in emergencies and refer them to a specialist when necessary.

**LEARNING OBJECTIVES:**

1. Takes medical history from patients presenting with gynecological or obstetric complaints and performs physical examination,
2. Select diagnostic tests and make a preliminary diagnosis by the medical history and physical examination findings of patients presenting with gynecological or obstetric complaints,
3. Makes differential diagnoses using medical history, physical examination, diagnostic test results, and evidence-based medicine principles from patients presenting with gynecological or obstetric complaints. Organizes the treatment and follow-up of patients to be treated in primary care,
4. Evaluates the patient with gynecological or obstetric complaints, decide to refer to the appropriate center in terms of gynecology and obstetrics when necessary, and direct them under proper conditions,
5. Recognizes gynecology and obstetrics emergencies and refers them to the appropriate specialist and center,
6. Explains the common health problems and their causes in the field of gynecology and obstetrics, taking into account the interaction of the individual with the environment,
7. Explains diagnosis and treatment approaches in the field of gynecology and obstetrics,
8. Explains the practices and measures for the protection of health on individual and community basis in the field of gynecology and obstetrics,
9. Evaluate scientific knowledge in the field of gynecology and obstetrics based on evidence.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of gynecology and obstetrics | **3** |
| Abdominal examination | **4** |
| Consciousness assessment | **4** |
| Pregnancy examination | **3** |
| Gynecological examination | **3** |
| Rectal examination | **3** |
| Evaluation of general condition and vital signs | **4** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of gynecology and obstetrics | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to evaluate direct radiographs in terms of gynecology and obstetrics | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able to perform and evaluate complete urine analysis (including microscopic examination) | **3** |
| In terms of gynecology and obstetrics interpret the results of screening and diagnostic examinations | **3** |

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|---|---|
| To be able to prepare a vaginal discharge sample | **3** |

| Interventional and non-interventional applications | |
|---|---|
| To be able to manage forensic cases in terms of gynecology and obstetrics | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |
| To be able to care for mother after childbirth | **3** |
| To be able to care for the baby after birth | **3** |
| Hand washing | **4** |
| Ability to open and suture episiotomy | **2** |
| To be able to monitor pregnant women and newborns | **3** |
| To be able to recognize/protect/transplant evidence in terms of gynecology and obstetrics | **2** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of gynecology and obstetrics | **4** |
| Ability to insert a urinary catheter | **3** |
| Ability to take samples for culture | **3** |
| Ability to make enema | **3** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| Ability to take vaginal and cervical samples | **3** |
| Ability to suture and remove superficial sutures | **4** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for gynecology and obstetrics | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| **Principles and practices of scientific research** **(**in terms of Gynecology and Obstetrics**)** | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| Healthfulness |
| --- |

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|---|---|
| Follow-up and periodic health examinations at different stages of life (pregnancy follow-up, etc, …) | **4** |

| THEORETICAL LECTURES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **GOT1** | Diagnosis of pregnancy, endocrinology | **DT** | **1** |
| **GOT2** | Physiological maternal adaptation to pregnancy | **F** | **1** |
| **GOT3** | Preconceptional and antenatal care | **F** | **1** |
| **GOT4** | Gynecological anamnesis and examination | **E-PreD** | **1** |
| **GOT5** | Prenatal screening and diagnostic tests and pregnancy ultrasonography | **E** | **1** |
| **GOT6** | Assessment of fetal well-being | **E** | **1** |
| **GOT7** | Labor 1: Anatomy of the birth canal, Fetal position and delivery | **E** | **1** |
| **GOT8** | Labor 2: Physiology of labor, Normal vaginal delivery, Obstetric analgesia | **E** | **1** |
| **GOT9** | Operative delivery, cesarean section, vaginal after cesarean section birth | **PreD-P** | **1** |
| **GOT10** | Approach to risky pregnancies | **PreD-P** | **1** |
| **GOT11** | Recurrent pregnancy losses | **E** | **1** |
| **GOT12** | Dystocia and malpresentation | **E** | **1** |
| **GOT13** | Antepartum hemorrhage, placenta previa and Abruption placenta | **E** | **1** |
| **GOT14** | Placenta and fetal physiology | **PreD** | **1** |
| **GOT15** | Surgical interventions in pregnancy, trauma in pregnancy | **E** | **1** |
| **GOT16** | Puerperium, lactation, puerperal complications | **E-PreD** | **1** |
| **GOT17** | Neonatal assessment and resuscitation | **E** | **1** |
| **GOT18** | Postpartum hemorrhage, Follow-up of the postpartum patient | **E-PreD** | **1** |
| **GOT19** | Drug use and teratogenicity in pregnancy | **E** | **1** |
| **GOT20** | Amniotic fluid disorders | **E** | **1** |
| **GOT21** | Premature rupture of membranes, preterm labor | **E** | **1** |
| **GOT22** | Intrauterine growth retardation | **E** | **1** |
| **GOT23** | Hypertension in pregnancy, pre-eclampsia, eclampsia, HELLP syndrome | **D-E-P** | **2** |
| **GOT24** | Diabetes in pregnancy and gestational diabetes | **D-P-F** | **1** |
| **GOT25** | Rh incompatibility and Erythroblastosis fetalis | **PreD-P** | **1** |

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|---|---|---|---|
| **GOT26** | Nonimmune hydrops fetalis | **E- PreD** | **1** |
| **GOT27** | Congenital infections | **E- PreD** | **1** |
| **GOT28** | Maternal and perinatal bacterial infections, neonatal sepsis | **E- PreD** | **1** |
| **GOT29** | Ectopic pregnancy | **PreD** | **1** |
| **GOT30** | First trimester bleeding and problems | **E** | **1** |
| **GOT31** | Multiple pregnancy | **E** | **1** |
| **GOT32** | Postterm pregnancy and labor induction | **E** | **1** |
| **GOT33** | Hyperemesis gravidarum | **DT-E** | **1** |
| **GOT34** | Systemic diseases in pregnancy | **E-PreD** | **2** |
| **GOT35** | Anatomy and embryology of the female genital system, Müllerian anomalies | **E-PreD** | **1** |
| **GOT37** | Benign diseases of the lower genital tract | **E-PreD** | **1** |
| **GOT38** | Pelvic floor, Pelvic prolapse | **PreD** | **1** |
| **GOT39** | Approach to urinary incontinence | **PreD** | **1** |
| **GOT40** | Pediatric and Adolescent gynecology, Puberty | **PreD** | **2** |
| **GOT41** | Gynecological imaging methods | **E** | **2** |
| **GOT42** | Genital infections, Sexually transmitted diseases, Pelvic inflammatory disease | **DT-P-F** | **2** |
| **GOT43** | Pelvic pain, acute and chronic | **PreD-F** | **1** |
| **GOT44** | Gynecological emergencies, Genital trauma | **E** | **2** |
| **GOT45** | Approach to adnexal masses | **E-PreD** | **1** |
| **GOT46** | Endometrium cancer and uterine sarcomas | **PreD** | **2** |
| **GOT47** | Epithelial tumors of the ovary | **PreD** | **1** |
| **GOT48** | Non-epithelial tumors of the ovary | **PreD** | **1** |
| **GOT49** | Cancers of the vulva and vagina | **PreD** | **1** |
| **GOT50** | Cervical cancer | **PreD-P** | **1** |
| **GOT51** | Lower genital preinvasive diseases | **PreD** | **1** |
| **GOT52** | Gestational trophoblastic diseases | **PreD** | **1** |
| **GOT53** | Menstrual cycle and menstrual problems | **PreD** | **1** |
| **GOT54** | Approach to abnormal uterine bleeding | **E-PreD** | **2** |
| **GOT55** | Endometriosis | **PreD** | **1** |
| **GOT56** | Amenorrhea | **PreD** | **1** |

| | | | |
|---|---|---|---|
| **GOT57** | Polycystic ovary syndrome, Hirsutism | **PreD** | **1** |

| | | | |
|---|---|---|---|
| **GOT58** | Menopause and Osteoporosis | **PreD-P** | **2** |
| **GOT59** | Evaluation of the infertile couple | **PreD-P** | **1** |
| **GOT60** | Assisted reproductive techniques | **E** | **1** |
| **GOT61** | Dysmenorrhea, premenstrual syndrome | **PreD** | **1** |
| **GOT62** | Benign diseases of the uterus | **PreD** | **1** |
| **GOT63** | Gynecological interventions | **PreD** | **2** |
| **GOT64** | Preoperative and postoperative follow-up for gynecologic surgeries | **E-PreD** | **1** |
| **GOT65** | Female sexual dysfunction | **PreD** | **1** |
| **GOT66** | Family planning and Contraception | **4** | **2** |
| | | **TOTAL** | **77** |

| **EDUCATIONAL ACTIVITIES IN PRACTICE** | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| Pregnancy examination and follow-up | **3** |
| To be able to care for mother after childbirth | **3** |
| Puerperium monitoring | **3** |
| Nonstress testing and evaluation | **3** |
| Gynecological examination | **3** |
| Clarification and obtaining consent | **4** |
| To be able to prepare a patient file | **4** |
| To be able to prepare an epicrisis | **4** |
| Ability to refer the patient appropriately | **4** |
| To be able to prepare a refusal of treatment document | **4** |
| Ability to issue a prescription | **4** |
| Ability to insert a urinary catheter | **3** |
| Ability to open and suture episiotomy | **2** |
| Ability to have a normal spontaneous birth | **2** |
| Speculum insertion | **4** |
| Ability to take vaginal and cervical samples | **3** |
| Family planning counseling | **4** |
| To be able to apply contraception methods correctly and monitor users | **3** |

# 10. UROLOGY

**PURPOSE:**

To train physicians with an ethical and conscious approach to common urological diseases and symptoms in primary health care regarding preliminary diagnosis, differential diagnosis, and preventive medicine practices within the “National Core Education Program” framework for pregraduate medical education. To train physicians who know the etiology, diagnosis, and treatment of common diseases and symptoms in urology, who can identify emergencies, perform the first treatment, and refer them to a specialist.

**LEARNING OBJECTIVES:**

1. Takes medical history from patients presenting and performs physical examination with urologic complaints,
2. Selects diagnostic tests and makes a preliminary diagnosis by the medical history and physical examination findings of patients presenting with urologic complaints,
3. Makes differential diagnoses using medical history, physical examination and diagnostic test results, and evidence-based medicine principles from patients presenting with urological complaints,
4. By evaluating the patient with urological complaints, it can decide to refer the patient to a higher-level center when necessary and directs them under appropriate conditions,
5. Recognize urologic emergencies,
6. Explains urologic diagnosis and treatment approaches,
7. Can explain the practices/measures for health protection on an individual and community basis in the field of urology.

| BASIC MEDICAL PRACTICES | |
|---|---|
| **APPLICATIONS** | **LEARNING LEVEL** |
| **Story retrieval** | |
| To be able to take general and problem-oriented history | **4** |
| **Physical examination for the general problem** | |
| Forensic case examination in terms of urology | **3** |
| Abdominal examination | **4** |
| Rectal examination | **3** |
| Evaluation of general condition and vital signs | **4** |
| Urological examination | **3** |
| **Record keeping, reporting and notification** | |
| Clarification and obtaining consent | **4** |
| To be able to prepare an epicrisis | **4** |
| To be able to prepare health reports in accordance with current legislation | **3** |
| To be able to prepare a patient file | **4** |
| Ability to issue a death certificate | **3** |
| Ability to issue a prescription | **4** |
| To be able to prepare a refusal of treatment document in terms of urology | **4** |
| Reporting and reporting legally notifiable diseases and conditions | **4** |
| **Laboratory tests and other related procedures** | |
| To be able to provide decontamination, disinfection, sterilization, antisepsis | **4** |
| To be able to evaluate direct radiographs in terms of urology | **3** |
| To be able to fill the request form for laboratory examination | **4** |
| To be able to take the laboratory sample under appropriate conditions and deliver it to the laboratory | **4** |
| To be able to perform and evaluate complete urine analysis (including microscopic examination) | **3** |
| To be able to interpret the results of screening and diagnostic examinations in terms of urology | **3** |
| **Interventional and non-interventional applications** | |
| Manage forensic cases in terms of urology | **3** |
| To be able to apply the principles of rational drug use | **4** |
| To be able to order rational laboratory and imaging examinations | **4** |

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|---|---|
| Recognize/protect/transplant evidence in terms of urology | **2** |
| Ability to open skin-soft tissue abscess | **3** |
| Hand washing | **4** |
| To be able to take biological samples from the patient | **3** |
| To ensure that the patient is transported appropriately | **4** |
| To be able to refer the patient appropriately in terms of urology | **4** |
| Ability to insert a urinary catheter | **3** |
| Minimental condition examination | **3** |
| Providing protection and transportation in accordance with the cold chain | **4** |
| Ability to perform suprapubic bladder puncture | **2** |
| To be able to apply basic life support | **4** |
| To be able to prepare the drugs to be applied correctly | **3** |
| **Preventive medicine and community medicine practices** | |
| Periodic medical examination for urology | **4** |
| To be able to take precautions related to the protection of the health of health workers | **4** |
| To be able to take preventive measures against healthcare-associated infections | **3** |
| **Principles and practices of scientific research** (in terms of Urology) | |
| To be able to compile scientific data and summarize them in tables and graphs | **3** |
| To be able to analyze scientific data with appropriate methods and interpret the results | **2** |
| To be able to plan research using scientific principles and methods | **2** |
| To be able to access current literature and read it critically | **3** |
| To be able to apply the principles of evidence-based medicine in clinical decision-making | **3** |

| THEORETICAL LECTURES | | | |
|---|---|---|---|
| **LECTURE CODE** | **LECTURE TOPICS** | **LEARNING LEVEL** | **TIME** |
| **UT1** | Definition of symptoms and general principles of approach | **E** | **1** |
| **UT2** | Routine urological examinations | **E-PreD** | **1** |
| **UT3** | Urinary tract infections and sexually transmitted infections | **E-PreD** | **1** |
| **UT4** | Urinary tract obstructions | **E-PreD** | **1** |
| **UT5** | Urogenital tract trauma | **E-PreD** | **1** |
| **UT6** | Prostate cancer | **E-PreD** | **1** |
| **UT7** | Kidney tumors | **PreD** | **1** |
| **UT8** | Adrenal tumors | **PreD** | **1** |
| **UT9** | Tumors of the collecting system | **PreD** | **1** |
| **UT10** | Testicular cancer | **PreD-P** | **1** |
| **UT11** | Bladder tumors | **PreD** | **1** |
| **UT12** | Circumcision, phimosis, paraphimosis, hypospadias, epispadiasis | **PreD-P** | **1** |
| **UT13** | Undescended testicle, hydrocele, acute scrotum | **E-PreD** | **1** |
| **UT14** | Hydronephrosis and obstructive uropathy, PUV | **E-PreD** | **1** |
| **UT15** | Voiding dysfunction, enuresis nocturna | **E-PreD** | **1** |
| **UT16** | Vesicoureteral reflux | **E-PreD** | **1** |
| **UT17** | Pediatric urooncology | **E-PreD** | **1** |
| **UT18** | Male infertility, | **PreD** | **1** |
| **UT19** | Erectile dysfunction, premature ejaculation, Peyroni disease | **PreD** | **1** |
| **UT20** | Female urology and functional urology | **PreD** | **1** |
| **UT21** | Benign prostatic hypertrophy | **PreD** | **1** |
| **UT22** | Urological interventions an instrumentation (Endoscopic surgery, laparoscopic surgery, robotic catheters used in surgery, urology) | **2** | **1** |
| **UT23** | Urinary tract stone disease | **E-PreD** | **1** |
| | | **TOTAL** | **23** |

| EDUCATIONAL ACTIVITIES IN PRACTICE | |
|---|---|
| **EDUCATION ACTIVITIES** | **LEARNING LEVEL** |
| History taking from patients | **4** |
| Bedside assessment of urologic symptoms (anuria-oliguria, dysuria, enuresis, hematuria, urinary retention, polyuria, scrotal pain, pollacuria/nocturia urethral discharge, urinary incontinence) | **4** |
| Requesting urine and blood tests in urologic patients and their results evaluation of | **3** |
| Sexual dysfunction/problems<br>Approach to patients with infertility (male), diagnostic hormonal tests | **1** |
| Urinary catheter insertion | **3** |
| Requesting radiologic examinations in patients and evaluation of the results | **2** |