



T.R. LOKMAN HEKIM UNIVERSITY FACULTY OF MEDICINE PHASE – III 2024 – 2025 ACADEMIC YEAR EDUCATION AND TEACHING GUIDE



EXECUTIVE COORDINATORSHIP Chief Coordinator Asst. Prof. Güleser Göktaş, PhD Basic Medical Sciences Coordinator Prof. Engin Dursun, MD Clinical Medical Sciences Coordinator Prof. Engin Dursun, MD Clinical Medical Sciences Coordinator Prof. Engin Dursun, MD Clinical Medical Sciences Coordinator Prof. Engin Dursun, MD Coordinator Asst. Prof. Selen Güçlü Durgun, PhD Vice Coordinator (Turkish) Asst. Prof. Eda Sağıroğlu, PhD Vice Coordinator (English) Asst. Prof. Eda Sağıroğlu, PhD Member Lecturer Ofcan Oflaz, PhD Member Res. Asst. Hilal Şamandar Aydaş Member Res. Asst. Musa Latif Çöllüoğlu PHASE II COORDINATORSHIP Coordinator (Turkish) Vice Coordinator (Turkish) Asst. Prof. Ruken Tan, PhD Vice Coordinator (Turkish) Asst. Prof. Ruken Tan, PhD Vice Coordinator (Turkish) Asst. Prof. Ruken Tan, PhD Member Lecturer Onur Can Şanlı, PhD Member Res. Asst. Ayşe Erkaya Member Res. Asst. Ayşe Erkaya Member Res. Asst. Neslihan ipek PHASE III COORDINATORSHIP Coordina	PRE-GRADUATION EDUCATION COORDINATORSHIP				
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	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	PHASE V COOI	RDINATORSHIP			
Coordinator Prof. Engin Dursun, MD	Coordinator	Prof. Engin Dursun, MD			
Vice Coordinator (Turkish) Prof. Güleser Saylam, MD	Vice Coordinator (Turkish)				
Vice Coordinator (English) Assoc. Prof. Esen Sayın Gülensoy , MD	· · ·	Assoc. Prof. Esen Sayın Gülensoy , MD			
Member Asst. Prof. Ali Rıza Yağmur, MD					
PHASE VI COORDINATORSHIP	PHASE VI COO				
Coordinator Prof. Sarp Üner, MD	Coordinator	Prof. Sarp Üner, MD			
Vice Coordinator (Turkish) Assoc. Prof. Fisun Sözen, MD	Vice Coordinator (Turkish)	Assoc. Prof. Fisun Sözen, MD			
Vice Coordinator (English) Asst. Prof. Tayfun Göktaş, MD	Vice Coordinator (English)	Asst. Prof. Tayfun Göktaş, MD			



T.R.

LOKMAN HEKIM UNIVERSITY FACULTY OF MEDICINE ENGLISH PROGRAMME

PHASE III COURSES and ECTS

CODE	COMPULSORY COURSES	т	Р	TS	ECTS
	Neoplasia and Hematopoietic System Diseases Course Board	102	3	105	8
	Circulatory and Respiratory System Diseases Course Board	93	3	96	8
	Gastrointestinal System Diseases Course Board	74	3	77	7
	Endocrine and Urogenital System Diseases Course Board	101	3	104	8
	Central Nervous System Diseases Course Board	99	3	102	8
	Musculoskeletal System Diseases Course Board	55	2	57	5
	Public Health/Forensics/Ethics and Clinical Skills Course Board	99	12	111	8
	TOTAL ECTS COMPULSORY	623	29	652	52
CODE	ELECTIVE COURSES	Т	Ρ	К	ECTS
	Developing Public Health Intervention Program For Health Literacy	2	0	2	4
	Reproductive Endocrinology	2	0	2	4
	Communication in Health 1 (Yabancı uyruklu öğrenciler)	2	0	2	4
	The Art of Anaesthesia	2	0	2	4
	Molecular Mechanism Of Life	2	0	2	4
	Communication in Health 2 (Yabancı uyruklu öğrenciler)	2	0	2	4
	TOTAL ECTS TO BE COLLECTED) AS E	LECI	IVES	8
	TOTAL ECTS TO BE COLLEC	TED IN	PHA	SE III	60



PHASE III OBJECTIVES AND LEARNING OUTCOMES

Aim:

In Phase III medical education, it is aimed to provide introductory courses to clinical sciences together with basic medical courses. In this phase, medicine students will take courses on neoplasia and hematopoietic system diseases, circulatory and respiratory system diseases, gastrointestinal system diseases, endocrine and urogenital system diseases, central nervous system diseases, musculoskeletal system diseases, public health/forensic medicine/ethics and clinical skills. At the end of these course boards, Phase III students will learn the mechanisms, pathology, clinical symptoms, basic approaches in diagnosis and treatment, methods of prevention from diseases that are frequently seen in different systems and cause of mortality and morbidity in society.

Learning Objectives:

At the end of; neoplasia and hematopoietic system diseases, circulatory and respiratory system diseases, gastrointestinal system diseases, endocrine and urogenital system diseases, central nervous system diseases, musculoskeletal system diseases, public health/forensics/ethics and clinical skills course boards, Phase III students will be able to;

- **1.** Learn the pathological processes of common diseases that have a significant impact on human health in terms of mortality and morbidity, establishes the relationship with symptoms and signs.
- **2.** List the most common clinical, laboratory, radiological and pathological findings of common diseases in the community.
- **3.** Describe the pharmacological treatment approach to be applied in different symptoms and diseases.
- **4.** Explains the importance of taking a history in children and adults, the principles of physical examination, and the importance of obtaining consent.
- **5.** Explains the position and importance of biochemical examinations in the diagnosis of diseases seen in various systems.
- 6. Explains the genetic mechanisms of diseases.
- 7. Explains the biological principles of scintigraphy.
- **8.** Explains the basic principles of medical imaging.
- **9.** List the factors and signs of common infectious diseases according to the systems.



NEOPLASIA AND HEMATOPOIETIC SYSTEM DISEASES COURSE BOARD PIII – BOARD I

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Emergency	3	0	3
	Pediatric Health and Diseases	14	0	14
	Infectious Diseases	4	0	4
	Internal Medicine	20	0	20
	Nuclear Medicine	2	0	2
	Radiation Oncology	2	0	2
	Radiology	3	0	3
	Medical Biochemistry	3	0	3
	Medical Pharmacology	23	0	23
	Medical Genetics	9	0	9
	Medical Pathology	13	3	16
	TOTAL	102	3	105

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to comprehend hematopoietic system development and pathology, tumor formation, development and pathophysiology, mechanisms of formation of neoplasia and hematopoietic system diseases, prevalence and importance in society, diagnostic methods, treatment agents and mechanisms of action. Another aim is to learn the indications for the use of agents used in infectious diseases, mechanisms of action, side effects.

- 1. Creates a medical history, queries necessary information for diagnosis.
- **2.** Lists the methods of physical examination, explains which examination is appropriate in which situation.
- **3.** Explains the principles of obtaining informed medical consent.
- 4. Defines the conceptual basic characteristics of benign and malignant tumors.
- 5. Lists what needs to be done in emergency cases such as frostbite, heatstroke, and poisonings.
- **6.** Classifies genetic diseases and explains which diagnostic methods can be used in which classes.
- 7. Grasps the mechanisms of hematological diseases and explains treatment approaches.
- 8. Interprets the indications and complications of blood product transfusion.
- **9.** Lists common hematopoietic system diseases in childhood and adulthood and describes their clinical and laboratory findings.
- **10.** Explains common childhood tumors.
- **11.** Explains the mechanisms of action and usage routes, as well as side effects of drugs used in the treatment of anemia and cancer.
- **12.** Describes all the energies and units used for imaging.
- 13. Describes details of the ionizing and non-ionizing radiation and protection



- **14.** Explains the imaging methods and basic concepts used in hematological diseases and oncology.
- **15.** Explains the place and advantages of nuclear medicine imaging methods in diagnostic imaging.
- **16.** Explains the nuclear medicine imaging methods used in hematology and oncology.
- **17.** Defines lymphoproliferative and myeloproliferative diseases, and explains diagnosis, differential diagnosis, and treatment approaches.
- **18.** Lists the usage indications and side effects of drugs used in infectious diseases.
- **19.** Explains the mechanisms of action of antimicrobial drugs.

EMERGENCY		
Торіс	Туре	Time
Alcohol consumption and emergencies	Theoretical	1
Corrosive substance exposure	Theoretical	1
Trauma and injuries	Theoretical	1
PEDIATRIC HEALTH AND DISEASES		
Торіс	Туре	Time
Hematological System Symptomatology in Children	Theoretical	1
Classification and Morphology of Anemias	Theoretical	2
Iron Metabolism and Iron Deficiency	Theoretical	1
Childhood Leukemias	Theoretical	1
Physiopathology of Homeostasis and Bleeding Diathesis	Theoretical	2
Congenital Aplastic Anemias	Theoretical	1
Erythrocyte Membrane Defects	Theoretical	1
Erythrocyte Enzyme Defects	Theoretical	1
Hemoglobinopathies	Theoretical	2
Major Histocompatibility System and its Clinical Significance	Theoretical	1
Complement System and its Clinical Significance	Theoretical	1
INFECTIOUS DISEASES		•
Торіс	Туре	Time
Introduction to Infectious Diseases	Theoretical	1
Viral haemorrhagic fevers	Theoretical	1
Protozoal infections of blood: Malaria and Babesiosis	Theoretical	1
Protozoer infections of tissues: toxoplasmosis, Leishmaniasis, tripanasomiasis	Theoretical	1
INTERNAL MEDICINE		
Торіс	Туре	Time
Anamnesis, physical examination and laboratory practice in hematology	Theoretical	2
Introduction to anemias and hemoglobinopathies	Theoretical	2
Bleeding disorders	Theoretical	2
Leukemias, lymphoproliferative and myeloproliferative diseases	Theoretical	2
Other hematological diseases (aplastic anemia, hemochromatosis,	Theoretical	2
polycythemia, diffused intravenous clotting)	moorotiour	
	Theoretical	1



Clinical examination	Theoretical	2
Taking consent	Theoretical	1
Weakness/fatigue/weight loss	Theoretical	1
Fever and sweating	Theoretical	1
Introduction to oncological diseases	Theoretical	2
NUCLEAR MEDICINE	meoretical	2
Торіс	Туре	Time
Biological principles of radiopharmaceuticals and scintigraphy	Theoretical	1
Nuclear medicine in hematology and oncology	Theoretical	1
RADIATION ONCOLOGY	medietical	<u> </u>
	Turno	Time
Topic	Type	Time
Basic concepts in radiation oncology	Theoretical	2
RADIOLOGY	T	T :
Topic	Туре	Time
Introduction to Radiology and Imaging sciences – Introduction to the	Theoretical	1
energies used for imaging, basics of imaging		
Ionising and non-ionising radiation and protection	Theoretical	1
Bone marrow imaging, Fundamentals of the imaging of oncologic and	Theoretical	1
hematologic diseases		
MEDICAL BIOCHEMISTRY		
Торіс	Туре	Time
Tumor markers and cancer biochemistry	Theoretical	1
Complete blood count (CBC)	Theoretical	1
Porphyrias	Theoretical	1
MEDICAL PHARMACOLOGY		
Торіс	Туре	Time
Topic Basic principles of antibiotics use	Type Theoretical	Time
Торіс		
Topic Basic principles of antibiotics use	Theoretical	1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and others	Theoretical Theoretical	1 4
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosides	Theoretical Theoretical Theoretical	1 4 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolid	Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicols	Theoretical Theoretical Theoretical Theoretical	1 4 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and	Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structure	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprim	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosis	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiviral drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 2
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiamoebic and antiprotozoal drugsAntiamoebic and antiprotozoal drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 2 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiviral drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatment	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 2 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiviral drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used in cancer treatment	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 2 1 1 1 1 1 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used in cancer treatmentImmunomodulatory drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiviral drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used in cancer treatmentImmunomodulatory drugsDrugs used to treat anemia	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 2 1 1 1 1 1 3
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used to treat anemiaMeDICAL GENETICS	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 3 1 2
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used to treat anemiaMEDICAL GENETICSTopic	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 2 1 1 1 1 1 3 1
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiviral drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used to treat anemiaMEDICAL GENETICSTopicDifferential diagnosis with inheritance patterns and family tree -	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 3 1 2
TopicBasic principles of antibiotics useBeta-lactam antibiotics: penicillins, cephalosporins and othersAminoglycosidesMacrolide, glycosamide and streptogramin antibiotics and linezolidTetracyclines and amphenicolsNarrow-spectrum antistaphylococcal and anti-anaerobic drugs and antibiotics with polypeptide structureFluoroquinolones, sulphonamides, co-trimoxazole and trimethoprimDrugs used to treat leprosy, syphilis and tuberculosisAntifungal drugsAntiamoebic and antiprotozoal drugsAntimalarial drugsPharmacological principles of cancer treatmentDrugs used to treat anemiaMEDICAL GENETICSTopic	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 4 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 2



Genetic laboratory techniques – classification in genetic diseases	Theoretical	1
Diagnostic approach in thalassemias	Theoretical	1
Diagnostic approach in rare and undiagnosed diseases	Theoretical	1
Genetic Hematological Blood Diseases	Theoretical	1
Genetic Approach and Mechanisms in Leukemia and Lymphomas	Theoretical	1
Cancer genetics (diagnosis – treatment and determination of prognosis)	Theoretical	1
Familial cancers	Theoretical	1
MEDICAL PATHOLOGY		
Торіс	Туре	Time
Principles of Neoplasia I: Benign and malign, diagnosing tumor	Theoretical	2
Principles of Neoplasia II: Etiology, carcinogenesis, invasion and metastasis	Theoretical	3
Principles of Neoplasia III: Prognosis, grading, nomenclature and advanced techniques	Theoretical	2
Diseases of Eritrocytes, Thymus and Spleen	Theoretical	2
White cell disorders	Theoretical	2
Pathology of Lymphocytes	Theoretical	2
Medical Pathology Practice: Neoplasia and Hematopoetic System Diseases	Practical	3

CIRCULATORY and RESPIRATORY SYSTEM DISEASES COURSE BOARD PIII – BOARD II

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Anesthesiology and Reanimation	2	0	2
	Biophysics	2	0	2
	Pediatric Health and Diseases	5	0	5
	Infectious Diseases	2	0	2
	Chest Diseases	9	0	9
	Cardiovascular Surgery	4	0	4
	Cardiology	10	0	10
	Ear Nose Throat Diseases	3	0	3
	Nuclear Medicine	2	0	2
	Radiology	3	0	3
	Medical Pharmacology	26	0	26
	Medical Genetics	5	0	5
	Medical Pathology	14	3	17
1	TOTAL	93	3	96



AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to increase the knowledge of the prevalence of respiratory and circulatory system diseases in the society, their importance, formation mechanisms, diagnostic methods, treatment agents and mechanisms of action.

Learning Objectives:

- **1.** Grasps the prevalence and importance of respiratory and circulatory system diseases.
- 2. Lists the infectious agents causing respiratory system infections.
- 3. Understands the physiopathology and symptomatology of upper and lower respiratory tract diseases.

4. Describes the symptomatology of upper respiratory tract problems such as hoarseness, nasal congestion, and obstruction.

- 5. Explains the physiopathology and symptomatology of ear pain and discharge.
- **6.** Classifies larynx-pharynx diseases and lymphoid tissue pathologies.
- 7. Explains the pharmacology of the autonomic nervous system.

8. Lists the names, effects, mechanisms of action, indications, and contraindications of sympathomimetic, sympatholytic, parasympathomimetic, and parasympatholytic drugs.

9. Lists the steps to be followed during the respiratory and circulatory system examination and approach to the patient.

- **10.** Explains the physiopathology of infectious lung diseases and circulatory disorders.
- **11.** Lists obstructive lung diseases, tuberculosis, and lung tumors.
- 12. Explains the pathology of mediastinal diseases and outlines the radiological evaluation criteria.
- **13.** Defines normal heart sounds, cyanosis, and murmurs and evaluates their clinical significance.
- **14.** Describes and distinguishes between fetal and neonatal circulation.

15. Clinically defines and differentiates cardiac pathologies and problems in adults and children and makes differential diagnoses.

16. Describes the physiopathology, clinical findings, and radiology of heart valve diseases.

17. Understands the physiopathology of heart failure and defines its symptoms.

18. Lists the importance, diagnosis, complications, treatment options, and prevention methods of hypertension.

19. Explains the etiopathogenesis, diagnosis, and treatment of vascular diseases.

20. Describes the pharmacokinetics, pharmacodynamics, effects, indications, contraindications, adverse effects, and drug interactions of medications effective in circulatory and respiratory system diseases.

21. Grasps the physiopathology and symptomatology of coronary circulation and coronary artery diseases.

22. Defines and understands the biochemical tests used in the diagnosis and monitoring of heart diseases.

23. Describes and lists the steps of cardiopulmonary resuscitation.

24. Describes imaging methods used in diagnosis of the head and neck diseases and basic imaging findings of them.

25. Describes the pathology of mediastinal diseases.

26. Describes imaging methods used in diagnosis of the cardiac and mediastinal diseases and basic imaging findings of them.

27. Describes evaluation criteria of the chest x-rays.

28. Describes imaging methods used in diagnosis of the respiratory diseases and basic imaging findings of them.



29. Explains basic radiological approaches in head and neck diseases, basic information about radiological images of diseases, radiological anatomy.

30. Explains basic radiological approaches in cardiovascular system diseases, basic information about radiological images of diseases, radiological anatomy.

31. Explains basic radiological approaches in respiratory system diseases, basic information about radiological images of diseases, radiological anatomy.

ANESTHESIOLOGY AND REANIMATION		
Торіс	Туре	Time
Cardiopulmonary resuscitation	Theoretical	1
Complications of Anesthesia	Theoretical	1
BIOPHYSICS		.
Торіс	Туре	Time
The electrical basis of cardiovascular disorders	Theoretical	1
The molecular basis of cardiovascular disorders	Theoretical	1
PEDIATRIC HEALTH AND DISEASES		<u> </u>
Торіс	Туре	Time
Assessment of the Cardiovascular System in Children	Theoretical	1
Symptomatology of the Circulatory and Respiratory Systems in Children	Theoretical	1
Congenital Heart Diseases (Acyanotic - Cyanotic) in Children	Theoretical	2
Acute Rheumatic Fever in Children	Theoretical	1
INFECTIOUS DISEASES		
Торіс	Туре	Time
Extrapulmonary tuberculosis	Theoretical	1
Diphtheria, Pertussis, Mumps	Theoretical	1
CHEST DISEASES		
CHEST DISEASES Topic	Туре	Time
	Type Theoretical	Time 1
TopicAnatomy, physiology and defence mechanisms of the respiratory		
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring,	Theoretical	1
Topic Anatomy, physiology and defence mechanisms of the respiratory system Symptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)	Theoretical Theoretical	1 2
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory System	Theoretical Theoretical Theoretical	1 2 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumonia	Theoretical Theoretical Theoretical Theoretical	1 2 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary Tuberculosis	Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory Failure	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and Tobacco	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and TobaccoAllergic diseases and AnaphylaxisCARDIOVASCULAR SURGERYTopic	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and TobaccoAllergic diseases and AnaphylaxisCARDIOVASCULAR SURGERY	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and TobaccoAllergic diseases and AnaphylaxisCARDIOVASCULAR SURGERYTopic	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1 1 1 Time
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and TobaccoAllergic diseases and AnaphylaxisCARDIOVASCULAR SURGERYTopicClinical anatomy of the cardiovascular systemCoronary artery diseases and surgeryHeart valve diseases and surgery	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1 1 Time 1
TopicAnatomy, physiology and defence mechanisms of the respiratory systemSymptoms of the Respiratory System (Dyspnea, cyanosis, Clubbibg, hemoptysis, Whezing, cough, sputum production, stridor, snoring, apnea)The Physical Examination of the Respiratory SystemPneumoniaPulmonary TuberculosisLung Edema/ Respiratory FailureThe Environmental and Occupational Lung Diseases and TobaccoAllergic diseases and AnaphylaxisCARDIOVASCULAR SURGERYTopicClinical anatomy of the cardiovascular systemCoronary artery diseases and surgery	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 2 1 1 1 1 1 1 1 Time 1 1



Торіс	Туре	Time
Working physiology of the heart	Theoretical	1
Symptomatology in heart diseases (palpitations, hypotension,	— , ,, ,	
hypertension, murmur in the heart, syncope, cyanosis, chest pain)	Theoretical	1
Examination of the cardiovascular system	Theoretical	1
Approach to Hypertension	Theoretical	2
Acute Coronary Syndromes	Theoretical	1
Chronic Coronary Artery Disease	Theoretical	1
Approach to Heart Failure	Theoretical	1
Electrocardiography (ECG)	Theoretical	2
EAR NOSE AND THROAT DISEASES		
Торіс	Туре	Time
Fundamentals of ENT Examination and Approach to the Patient	Theoretical	1
ENT Related Symptoms in Upper Respiratory Tract Diseases	Theoretical	2
Торіс	Туре	Time
Applications of nuclear medicine in cardiovascular diseases	Theoretical	1
Respiratory system scintigraphy	Theoretical	1
RADIOLOGY		
Торіс	Туре	Time
Imaging methods used in diagnosis of cardiovascular system diseases,		
radiologic anatomy, and pathology	Theoretical	1
Basic radiological approaches, basic principles, radiological anatomy in		
respiratory system diseases	Theoretical	1
Imaging methods used in diagnosis of head and neck diseases,		
Imaging methods used in diagnosis of head and neck diseases, radiologic anatomy, and pathology	Theoretical	1
	Theoretical	1
radiologic anatomy, and pathology		1 Time
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY	Theoretical Type Theoretical	
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic	Туре	Time
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission	Type Theoretical	Time 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists	Type Theoretical Theoretical	Time 2 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists	Type Theoretical Theoretical Theoretical	Time 2 2 2 2 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Muscarinic receptor agonists and antagonists	Type Theoretical Theoretical Theoretical Theoretical	Time 2 2 2 2 2 2 2 2 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Muscarinic receptor agonists and antagonists Anticholinesterase drugs	TypeTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Adrenergic receptor antagonists Muscarinic receptor agonists and antagonists Anticholinesterase drugs Nicotine and ganglion stimulating, blocking drugs	TypeTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoretical	Time 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Adrenergic receptor antagonists and antagonists Muscarinic receptor agonists and antagonists Anticholinesterase drugs Nicotine and ganglion stimulating, blocking drugs Antihypertensive drugs	TypeTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoretical	Time 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Adrenergic receptor antagonists and antagonists Muscarinic receptor agonists and antagonists Anticholinesterase drugs Nicotine and ganglion stimulating, blocking drugs Antihypertensive drugs Peripheral vasodilators	TypeTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1
radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsMuscarinic receptor antagonists and antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugs	TypeTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoreticalTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 1 2
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radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsAdrenergic receptor antagonists and antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugsAntiarrhythmic drugsCardiac glycosides and other drugs used to treat heart failureHypolipidemic drugs	TypeTheoretical	Time 2 1
radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsMuscarinic receptor agonists and antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugsAntiarrhythmic drugsCardiac glycosides and other drugs used to treat heart failureHypolipidemic drugsAnticoagulants, antithrombotic and thrombolytic drugs	TypeTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2 1 2
radiologic anatomy, and pathology MEDICAL PHARMACOLOGY Topic Autonomic nervous system pharmacology, neurotransmission Adrenergic receptor agonists Adrenergic receptor antagonists Adrenergic receptor antagonists Muscarinic receptor agonists and antagonists Muscarinic receptor agonists and antagonists Anticholinesterase drugs Nicotine and ganglion stimulating, blocking drugs Antihypertensive drugs Peripheral vasodilators Antianginal drugs Antiarrhythmic drugs Cardiac glycosides and other drugs used to treat heart failure Hypolipidemic drugs Anticoagulants, antithrombotic and thrombolytic drugs Drugs used in the respiratory system	TypeTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2 1 2
radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsMuscarinic receptor agonists and antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugsAntiarrhythmic drugsCardiac glycosides and other drugs used to treat heart failureHypolipidemic drugsAnticoagulants, antithrombotic and thrombolytic drugsDrugs used in the respiratory systemMEDICAL GENETICS	TypeTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2
radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsAdrenergic receptor antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugsAntiarrhythmic drugsCardiac glycosides and other drugs used to treat heart failureHypolipidemic drugsAnticoagulants, antithrombotic and thrombolytic drugsDrugs used in the respiratory systemMEDICAL GENETICSTopicGenetic approach to cardiovascular anomalies	TypeTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 <tr td=""></tr>
radiologic anatomy, and pathologyMEDICAL PHARMACOLOGYTopicAutonomic nervous system pharmacology, neurotransmissionAdrenergic receptor agonistsAdrenergic receptor antagonistsMuscarinic receptor agonists and antagonistsAnticholinesterase drugsNicotine and ganglion stimulating, blocking drugsAntihypertensive drugsPeripheral vasodilatorsAntianginal drugsAntiarrhythmic drugsCardiac glycosides and other drugs used to treat heart failureHypolipidemic drugsAnticoagulants, antithrombotic and thrombolytic drugsDrugs used in the respiratory systemMEDICAL GENETICSTopic	TypeTheoretical	Time 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 1 2 2 1



Genetic Counseling - Applied	Theoretical	1	
MEDICAL PATHOLOGY			
Торіс	Туре	Time	
Hypertension and Atherosclerosis	Theoretical	1	
Ischemic Heart Diseases	Theoretical	1	
Inflammatory and congenital heart diseases	Theoretical	2	
Vasculitis	Theoretical	1	
Venous Diseases and Tumors	Theoretical	1	
Introduction to respiratory System Diseases: Pulmonary infections and sarcoidosis	Theoretical	2	
Atelectasis bronchiectasis, pneumoconiosis	Theoretical	2	
Obstructive and restrictive lung disease	Theoretical	2	
Lung Tumors-Pleural Lesions	Theoretical	2	
Medical Pathology Practice: Respiratory and cardiovascular system pathology	Practical	3	

GASTROINTESTINAL SYSTEM DISEASES COURSE BOARD PIII – BOARD III

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Pediatric Health and Diseases	2	0	2
	Infectious Diseases	8	0	8
	General Surgery	4	0	4
	Internal Medicine	13	0	13
	Nuclear Medicine	1	0	1
	Radiology	2	0	2
	Medical Biochemistry	7	0	7
	Medical Pharmacology	6	0	6
	Medical Genetics	4	0	4
	Medical Pathology	21	3	24
	TOTAL	74	3	77

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to comprehend the mechanisms, pathologies, biochemical mechanisms, symptomatology, clinic, laboratory interpretations, imaging findings and pharmacological approaches of all diseases of the gastrointestinal system and liver.

Learning Objectives:

1. Defines the terminology and symptomatology of the gastrointestinal and hepatobiliary system and nutrition.



- 2. Evaluates diseases of the mouth and salivary gland, explains their pathology.
- **3.** Explains the pathophysiology of motor dysfunctions of the esophagus and reflux, describes the pathology and the peculiarities of the diseases.
- **4.** Defines the pathology and functional disorders of stomach diseases and counts the mechanisms of action of drugs used in treatment of peptic ulcer.
- **5.** Comprehends the basis of small intestine and large intestine diseases, explains their pathology and radiology.
- **6.** Distinguishes different approaches to diseases on the basis of each acute and chronic abdominal pain, conducts radiological and pharmacological evaluation.
- **7.** Describes the pathology, symptomatology of liver, biliary tract and pancreatic diseases, makes biochemical and radiological evaluations.
- 8. Conducts pathologies and clinical evaluation of tumors of the gastrointestinal tract.

9. Defines the importance of nutrition, its basic concepts and tells the incidence of nutritional deficiencies and the markers that affect them.

10. Defines microorganisms that cause gastrointestinal tract infection.

11. Explains the fundamental radiological concepts in the diagnosis of gastrointestinal system diseases.

12. Explains basic radiological approaches in gastrointestinal system diseases, basic information about radiological images of diseases, radiological anatomy.

PEDIATRIC HEALTH AND DISEASES		
Торіс	Туре	Time
Bilirubin Metabolism and Approach to Patients with Jaundice	Theoretical	1
Congenital Metabolic Disorders	Theoretical	1
INFECTIOUS DISEASES		
Торіс	Туре	Time
Acute hepatitis	Theoretical	2
Gastroenteritis and food poisoning	Theoretical	2
Enteric fever	Theoretical	1
Gastrointestinal parasitosis and echinococcosis	Theoretical	2
Zoonoses; Anthrax and others	Theoretical	1
GENERAL SURGERY		
Торіс	Туре	Time
Surgical approach to abdominal pain and acute abdomen	Theoretical	1
Inguinal and abdominal wall hernias	Theoretical	1
Abdominal traumas	Theoretical	1
Abdominal examination	Theoretical	1
INTERNAL MEDICINE		
Торіс	Туре	Time
Introduction to diseases of the esophagus and stomach	Theoretical	2
Dyspepsia, reflux, gastritis, ulcer	Theoretical	2
Inflammatory, functional diseases of the intestine	Theoretical	2
Introduction to liver diseases	Theoretical	2
Acute hepatitis	Theoretical	1
Introduction to pancreatic diseases	Theoretical	1
Gastrointestinal tract tumors	Theoretical	2
Gastrointestinal tract hemorrhages	Theoretical	1
NUCLEAR MEDICINE		



Торіс	Туре	Time
Gastrointestinal system scintigraphy	Theoretical	1
RADIOLOGY		1
Торіс	Туре	Time
Imaging methods used in diagnosis of gastrointestinal system	Theoretical	1
diseases, radiologic anatomy and pathology 1		
Imaging methods used in diagnosis of gastrointestinal system	Theoretical	1
diseases, radiologic anatomy and pathology 2		
MEDICAL BIOCHEMISTRY		
Topic	Туре	Time
Liver function tests	Theoretical	1
Bilirubin metabolism and hyperbilirubinemia	Theoretical	1
Avitaminosis	Theoretical	2
Vitamin D deficiency	Theoretical	1
Clinical toxicology	Theoretical	2
MEDICAL PHARMACOLOGY		-
Торіс	Туре	Time
Drugs used in the treatment of peptic ulcer	Theoretical	2
Emetic, antiemetic and prokinetic drugs and other drugs	Theoretical	2
Laxative, purgative and antidiarrheal drugs	Theoretical	2
MEDICAL GENETICS		
Торіс	Туре	Time
Genetically caused diarrhea - GIS Anomalies - Other GIS diseases	Theoretical	1
Gluten Enteropathy - Autoimmune and autoinflammatory diseases and Inflammatory Bowel Diseases	Theoretical	1
Mutation evaluation – reading the genetic report	Theoretical	1
PFIC – Cystic fibrosis – Prolonged jaundice – other GI diseases	Theoretical	1
MEDICAL PATHOLOGY	Theoretical	<u> </u>
Торіс	Туре	Time
Oral, Salivary gland diseases and neoplasias	Theoretical	2
Diseases and Neoplasias of Esophagus	Theoretical	2
Diseases and Neoplasias of Nasopharynx and Larynx	Theoretical	2
Developmental abnormalities, Inflammatory Diseases and Tumors of	Theoretical	2
Stomach	The second second	
Inflammatory Diseases and Tumors of Small intestine infections	Theoretical	2
Inflammatory Diseases and Tumors of Colon, Appendiks vermiformis, anogenital region and periton	Theoretical	2
Introduction and basic principles of Liver Diseases	Theoretical	2
Hepatitis and Parasitic infections of Liver	Theoretical	2
Toxic and metabolic diseases of Liver and Diseases of Gall bladder	Theoretical	2
Neoplasias of Hepatobiliary system	Theoretical	2
Diseases and Neoplasias of Pancreas	Theoretical	1
		1



ENDOCRINE and UROGENITAL SYSTEM DISEASES COURSE BOARD PIII – BOARD IV

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Biophysics	2	0	2
	Pediatric Health and Diseases	15	0	15
	Infectious Diseases	2	0	2
	Internal Medicine	14	0	14
	Obstetrics and Gynaecology	10	0	10
	Nuclear Medicine	2	0	2
	Radiology	4	0	4
	Medical Pharmacology	12	0	12
	Medical Genetics	7	0	7
	Medical Pathology	23	3	26
	Urology	4	0	4
	TOTAL	101	3	104

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to identify the mechanisms of formation of diseases, their pathologies, biochemistry, disease causes, infectious agents, diseases clinical features, laboratory and imaging findings and pharmacological approaches and drugs used in treatment of endocrine, reproductive, and urinary systems diseases using the clinical physiology of these systems.

- 1. Defines the terminology and symptomatology of the endocrine, reproductive and urinary systems.
- **2.** Explains the hormonal physiology of the pituitary gland and hypothalamus, pharmacological properties of hormones, the development of diseases in these glands, pathology, clinical manifestations of each, in both childhood and adulthood.
- **3.** Lists the functional physiology of the thyroid gland and the effects of its hormones, classifies diseases related to thyroid gland, defines the mechanism of their formation, explains their pathologies, clinical features and diagnostic methods in both childhood and adulthood.
- **4.** Explains the mechanism of development, laboratory and imaging findings, clinical features of diseases related to calcium metabolism in adults and drugs used in the treatment of mineral disorders.
- **5.** Explains the mechanism, biochemistry, pathology and clinical features of congenital and acquired diseases of the adrenal cortex and medulla and describes the corticosteroid and mineralocorticoid drugs used in the treatment of these diseases.
- **6.** Explains the mechanism of development, biochemistry, pathology and clinical findings of diseases related to glucose metabolism in childhood and adulthood.
- **7.** Lists the acute and chronic complications of diabetes mellitus, describes its clinical features, counts the pharmacological properties of the insulin hormone and drugs used in the treatment of diabetes mellitus.
- 8. Lists the causes of obesity observed in childhood and adulthood, explains the mechanism of its development, defines neuroendocrine control of energy metabolism and obesity drugs, and comprehends the importance of obesity in terms of public health.



- **9.** Describes the physiology of growth and its disorders, lists the physiological features of puberty and describes puberty disorders, explains the biochemistry of disorders of gonadal hormones, lists the causes of male hypogonadism and describes its clinical features.
- **10.** Classifies and defines diseases related to menstruation and ovulation disorders.
- **11.** Classifies and defines inflammatory and neoplastic diseases seen in the organs of the female genital system, describe their pathological features, describe the symptoms in gynecology, list clinical and imaging diagnostic methods.
- **12.** Explains the physiology of the fetus and placenta, classifies and defines placental and trophoblastic diseases.
- **13.** Explains the physiology of pregnancy and lactation, the development of pregnancy, lists scanning tests and prenatal diagnostic tests in pregnancy.
- **14.** Explains the physiology and mechanism of normal delivery.
- **15.** Explains reproduction physiology, defines and classifies infertility, explains diagnostic methods.
- **16.** Defines, lists and describes birth control methods, classifies and counts the pharmacological agents used in birth control, explains the methods of genetic consulting.
- **17.** Explains the approach to urinary system symptomatology, describes the tests used in the diagnostic approach to kidney diseases, explains renal hemodynamics and urine formation.
- **18.** Describes the mechanisms that constitute acid-base balance, describes fluid and electrolyte system disorders, explains the mechanism of action, pharmacokinetics, toxic effects, drug interactions and clinical uses of drugs used in the treatment of diuretics, fluid-electrolyte balance disorders and acid-base balance disorders.
- **19.** Evaluates the pathologies of urinary system diseases, describes the diagnosis, pathologies and clinical manifestations of glomerular diseases, counts the congenital anomalies of the urinary system and comprehends their diagnosis.
- **20.** Approaches the patient with proteinuria, hematuria and edema, interprets the mechanisms of the development of hypertension, distinguishes its primary and secondary causes; determines the tests used in the identification of secondary causes.
- **21.** Explains the causes and consequences of acute and chronic renal failure.
- **22.** Counts the specific and nonspecific signs and symptoms of the urinary system and explains the examination methods used in the diagnosis of urinary system diseases.
- **23.** Explains basic radiological approaches in male urogenital system diseases, basic information about radiological images of diseases, radiological anatomy.
- **24.** Explains basic radiological approaches in female urogenital system diseases, basic information about radiological images of diseases, radiological anatomy.
- **25.** Explains basic radiological approaches in endocrine system diseases, basic information about radiological images of diseases, radiological anatomy.
- **26.** Explains basic radiological approaches in breast diseases, basic information about radiological images of diseases, radiological anatomy.



BIOPHYSICS		
Торіс	Туре	Time
Biophysical basis of alterated electrical activity in cardiac dysfunction in metabolic disorders	Theoretical	1
Electrical and molecular basis of in alteration parameters of ECGs of hearts under hyperglycemic and hyperinsulinemic conditions –	Theoretical	1
ionic channels, transporters, and receptors		
PEDIATRIC HEALTH AND DISEASES		
Торіс	Туре	Time
Congenital Adrenal Hyperplasia	Theoretical	1
Introduction to Inherited Metabolic Diseases	Theoretical	1
Physiopathology of Type 1 Diabetes	Theoretical	1
Childhood Obesity	Theoretical	1
Calcium, Phosphorus, Magnesium Balance and Disorders	Theoretical	2
Normal Puberty	Theoretical	1
Disorders of Sexual Differentiation	Theoretical	1
Proteinuria in Children	Theoretical	1
Hematuria in Children	Theoretical	1
Introduction to Glomerular Diseases	Theoretical	1
Renal Tubular Diseases	Theoretical	1
Acid-Base Balance and Disorders	Theoretical	1
Physiopathology of Acute and Chronic Kidney Failure	Theoretical	1
Interstitial Nephritis	Theoretical	1
INFECTIOUS DISEASES		
Торіс	Туре	Time
Sexually transmitted diseases	Theoretical	2
Topic	Туре	Time
Signs and symptoms of endocrinological system diseases	Theoretical	1
Diseases of the pituitary axes and pituitary gland	Theoretical	2
Thyroid and parathyroid glands and their diseases	Theoretical	2
Adrenal gland diseases (Cushing's disease, adrenocortical insufficiency)	Theoretical	1
Diabetes mellitus and complications	Theoretical	1
Other endocrine diseases (pheochromocytoma, multiple endocrine neoplasias)	Theoretical	1
Symptomatology of the urinary system	Theoretical	1
Renal failures (acute kidney injury, chronic kidney disease)	Theoretical	2
Acid-base balance disorders/fluid and electrolyte balance disorders/edema and proteinuria	Theoretical	1
Acute glomerulonephritis, chronic glomerulonephritis, tubulointerstitial diseases, nephrotic syndrome	Theoretical	1
Etiopathogenesis of hypertension	Theoretical	1
OBSTETRICS AND GYNECOLOGY		•
Topic	Туре	Time
Gynecological history, physical examination and diagnostic methods	Theoretical	1



Menstrual cycle	Theoretical	1
Menstrual disorder /Amenorrhea	Theoretical	1
Pelvic pain/Dysmenorrhea / Endometriosis	Theoretical	1
Introduction to obstetrics, definition and endocrinology of pregnancy		1
Physiology of pregnancy (maternal, fetal) / hyperemesis gravidarum		1
Vaginal bleeding (pregnancy, postpartum, postmenopausal, others)		1
Eclampsia / Preeclampsia/ Gestational diabetes	Theoretical	1
Antenatal care and screening tests	Theoretical	1
Intrauterine infections	Theoretical	1
NUCLEAR MEDICINE	meoretical	
	Туро	Time
Topic	Type Theoretical	1
Applications of nuclear medicine in endocrine diseases	Theoretical	1
Nuclear medicine methods used in nephrourological pathologies RADIOLOGY	Theoretical	1
	Turne	Time
Topic	Туре	Time
Imaging methods used in diagnosis of endocrine system diseases,	Theoretical	1
radiologic anatomy and pathology		
Imaging methods used in diagnosis of female urogenital system	Theoretical	1
diseases, radiologic anatomy and pathology 1		
Imaging methods used in diagnosis of male urogenital system	Theoretical	1
diseases, radiologic anatomy and pathology 2		
Imaging methods used in diagnosis of breast diseases, radiologic	Theoretical	1
anatomy and pathology		
	-	
Topic Pharmacological and pharmacokinetic aspects of hormones	Type	Time
Pharmacological and pharmacokinetic aspects of normones		
•	Theoretical	1
Drugs that affect bone mineral homeostasis; thyroid medications	Theoretical	1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications		-
Drugs that affect bone mineral homeostasis; thyroid medications	Theoretical	1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH	Theoretical Theoretical	1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH))	Theoretical Theoretical Theoretical	1 1 2
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin	Theoretical Theoretical Theoretical Theoretical	1 1 2 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon	Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives,	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic Endocrine syndromes and overgrowth	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic Endocrine syndromes and overgrowth Genetic diseases of the kidneys and urinary system	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1 Time 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic Endocrine syndromes and overgrowth Genetic diseases of the kidneys and urinary system Genital anomalies	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic Endocrine syndromes and overgrowth Genetic diseases of the kidneys and urinary system Genital anomalies Prenatal Diagnosis-Preimplantation Genetic Diagnosis	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1 1 Time 1 1
Drugs that affect bone mineral homeostasis; thyroid medications Thyroid medications Corticosteroids, corticosteroid antagonists and ACTH (glucocorticoid, mineralocorticoid, aldosterone antagonist, ACTH)) Insulin Oral antidiabetic drugs and glucagon Hemostatic drugs and solutions that expand plasma volume Diuretic drugs Drugs and solutions used in fluid-electrolyte balance and acid- base balance disorders. Estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs Androgens, anabolic steroids and antiandrogenic drugs MEDICAL GENETICS Topic Endocrine syndromes and overgrowth Genetic diseases of the kidneys and urinary system Genital anomalies	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Infertility	Theoretical	1		
MEDICAL PATHOLOGY				
Торіс	Туре	Time		
Pituitary gland adenomas and Neoplasia of adrenal gland	Theoretical	2		
Diseases and Neoplasias of Thyroid	Theoretical	2		
Diseases of Parathyroid and MEN	Theoretical	1		
Diseases of endocrine pancreas	Theoretical	1		
Renal glomerular diseases	Theoretical	3		
Tubulointerstitial Diseases	Theoretical	1		
Renal and Urothelial Neoplasias	Theoretical	2		
Diseases of Vulva and Vagen	Theoretical	1		
Diseases of Cervix	Theoretical	1		
Diseases of Corpus uteri	Theoretical	1		
Ovary tumors	Theoretical	1		
Gestational tumors and Diseases of placenta	Theoretical	1		
Male genital system diseases and tumors	Theoretical	2		
Prostate diseases and tumors	Theoretical	1		
Genital system infections and PID	Theoretical	1		
Inflammatory diseases and tumors of Breast	Theoretical	2		
Medical Pathology practice: Pathology of endocrine and urogenital system	Practical	3		
UROLOGY				
Торіс	Туре	Time		
Description of symptoms in urology and principles of general approach	Theoretical	1		
Urological examination	Theoretical	1		
Laboratory and imaging methods in urology	Theoretical	1		
Urological emergencies	Theoretical	1		



CENTRAL NERVOUS SYSTEM DISEASES COURSE BOARD PIII – BOARD V

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Brain and Nerve Surgery	4	0	4
	Biophysics	2	0	2
	Pediatric Health and Diseases	3	0	3
	Pediatric and Adolescent Mental	6	0	6
	Health and Diseases			
	Infectious Diseases	4	0	4
	Eye Diseases	3	0	3
	Ear Nose and Throat Diseases	1	0	1
	Neurology	12	0	12
	Radiology	3	0	3
	Mental Health and Diseases	15	0	15
	Medical Biochemistry	4	0	4
	Medical Pharmacology	18	0	18
	Medical Genetics	6	0	6
	Medical Pathology	10	3	13
	TOTAL	97	3	100

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to teach the basic concepts related to the pathologies of functions and disorders of central and peripheral nervous system, causes of diseases, infectious agents, the clinical features of diseases, laboratory and imaging findings, pharmacological approaches and drugs used in the treatment and to classify and explain the psychiatric disorders such as mood and neurocognitive disorders, drug abuse disorders and psychoses.

- **1.** Describes the frequently observed vascular, degenerative and demyelinating diseases of central nervous system.
- **2.** Lists microbial factors that cause infection in nervous system, explains the mechanisms of disease development, explains the diagnostic methods and the methods of protection from and control of these infectious agents.
- 3. Defines epileptic seizures in children and adults.
- **4.** Identifies the primary and secondary causes of headache, lists the available treatment approaches.
- **5.** Lists the symptoms of peripheral neuropathy, describes the mechanism and clinic of common etiological causes.



- **6.** Describes the pathogenesis of childhood and adult muscle diseases and counts their clinical signs and symptoms.
- 7. Tells the methods of radiological examination of the central nervous system.
- 8. Counts central nervous system tumors and clinical manifestations.
- **9.** Classifies and explains psychiatric disorders such as mood disorders, neurocognitive and sleep disorders, alcohol and drug abuse disorders and psychoses, anxiety disorders, obsessive compulsive disorder (OCD), trauma and stress-related disorders.
- **10.** Grades the physical, psychosocial, and cognitive development of a child.
- **11.** Describes syndromes that lead to sensory and motor systems disorders.
- **12.** Describes the symptoms and signs of physical examination in pathologies lead to eye disorders.
- 13. Counts the symptoms and signs in diseases related to brain and neurosurgery.
- **14.** Counts the symptoms and signs seen in neurological diseases.
- 15. Classifies neurological diseases.
- **16.** Describes basic radiological approaches in central system diseases, basic information about radiological images of diseases, radiological anatomy.

BRAIN AND NERVE SURGERY		
Торіс	Туре	Time
Cerebrovascular pathologies	Theoretical	1
Syndrome of increased intracranial pressure	Theoretical	1
Head trauma	Theoretical	1
Spinal traumas	Theoretical	1
BIOPHYSICS		•
Торіс	Туре	Time
Medical imaging and application techniques I	Theoretical	1
Medical imaging and application techniques II	Theoretical	1
PEDIATRIC HEALTH AND DISEASES		
Торіс	Туре	Time
Neurological system's symptoms in pediatric patients and neurological examination	Theoretical	1
Degenerative diseases of white matter	Theoretical	1
Degenerative diseases of gray matter	Theoretical	1
PEDIATRIC AND ADOLESCENT MENTAL HEALTH and DISEASES		<u> </u>
Торіс	Туре	Time
Psychiatric evaluation in children and adolescents	Theoretical	1
Attention deficit and hyperactivity disorder	Theoretical	1
Disruptive disorders, impulse control and behavioral disorders	Theoretical	1
Autism spectrum disorder	Theoretical	1
Depression and anxiety disorders in children and adolescents	Theoretical	1
Childhood neglect and abuse	Theoretical	1
INFECTIOUS DISEASES		
Торіс	Туре	Time
Rabies	Theoretical	1
Central Nervous System Infections	Theoretical	1
Meningococcal diseases	Theoretical	1
Clostridial infections: Tetanus and Botulism	Theoretical	1
EYE DISEASES		



	Туре	Time
Topic Visual impairment/loss – eye examination	Theoretical	1
Eye trauma (physical, chemical)	Theoretical	1
Red eye (redness of the eye)/conjunctivitis	Theoretical	1
EAR NOSE and THROAT DISEASES	Theoretical	<u> </u>
Topic	Туре	Time
Hearing impairment and tinnitus	Theoretical	1
NEUROLOGY	Theoretical	<u> </u>
Topic	Туре	Time
Symptoms and signs of neurological diseases / Classification of		
neurological diseases	Theoretical	1
Changes in consciousness and coma	Theoretical	1
Tremor and Parkinson's disease	Theoretical	1
Ataxic disorders	Theoretical	1
Paresthesia, Paresis, Paralysis and Speech Disorders	Theoretical	1
Transient ischemic attack and cerebral infarction	Theoretical	1
Seizures and Epilepsy	Theoretical	1
Peripheric Nerve and Motor Neuron Diseases / Neuropathic pain, Muscle diseases (myopathies)	Theoretical	1
Diplopia, myasthenia gravis, cholinergic crisis	Theoretical	1
Headache, Migraine, tension-type headache	Theoretical	1
Multiple sclerosis	Theoretical	1
Cognitive disorders/ Dementia and Alzheimer's disease	Theoretical	1
RADIOLOGY	moorotiour	· ·
Торіс	—	
	Iype	Time
•	Туре	
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1	Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases,	Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1		
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases,	Theoretical Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2	Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases,	Theoretical Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3	Theoretical Theoretical	1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES	Theoretical Theoretical Theoretical	1 1 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3MENTAL HEALTH AND DISEASESTopic	Theoretical Theoretical Theoretical Type	1 1 1 Time
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES Topic Psychic apparatus	Theoretical Theoretical Theoretical Type Theoretical	1 1 1 Time 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASESTopic Psychic apparatusDefense mechanisms	Theoretical Theoretical Theoretical Type Theoretical Theoretical	1 1 1 Time 1 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3MENTAL HEALTH AND DISEASESTopicPsychic apparatusDefense mechanismsIntroduction to psychiatry, psychiatric symptoms and signs	Theoretical Theoretical Theoretical Type Theoretical Theoretical Theoretical	1 1 1 Time 1 1 1 2
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3MENTAL HEALTH AND DISEASESTopicPsychic apparatusDefense mechanismsIntroduction to psychiatry, psychiatric symptoms and signsPsychiatric interview and clinical evaluation	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 Time 1 1 1 2 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3MENTAL HEALTH AND DISEASESTopicPsychic apparatusDefense mechanismsIntroduction to psychiatry, psychiatric symptoms and signsPsychiatric interview and clinical evaluationDefinition, classification and clinical features of psychotic disorders	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 1 2 1 2 1 2
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES TopicPsychic apparatusDefense mechanismsIntroduction to psychiatry, psychiatric symptoms and signsPsychiatric interview and clinical features of psychotic disordersDefinition, classification and clinical features of mood disorders	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 1 2 1 1 2 2 2
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES Topic Psychic apparatus Defense mechanisms Introduction to psychiatry, psychiatric symptoms and signs Psychiatric interview and clinical evaluation Definition, classification and clinical features of psychotic disorders Alcohol and drug addiction Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of obsessive-compulsive	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 2 1 1 2 1 2 2 2 2
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES Topic Psychic apparatus Defense mechanisms Introduction to psychiatry, psychiatric symptoms and signs Psychiatric interview and clinical evaluation Definition, classification and clinical features of psychotic disorders Alcohol and drug addiction Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of obsessive-compulsive disorder and related disorders	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 1 2 1 2 2 2 2 2 1 1 1 1 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES Topic Psychic apparatus Defense mechanisms Introduction to psychiatry, psychiatric symptoms and signs Psychiatric interview and clinical evaluation Definition, classification and clinical features of psychotic disorders Definition, classification and clinical features of mood disorders Alcohol and drug addiction Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of Desessive-compulsive disorder and related disorders Delirium and dementia	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 2 1 2 2 2 1 1 2 2 1 1 1 1
Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 1 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 2 Imaging methods used in diagnosis of central nervous system diseases, radiologic anatomy and pathology 3 MENTAL HEALTH AND DISEASES Topic Psychic apparatus Defense mechanisms Introduction to psychiatry, psychiatric symptoms and signs Psychiatric interview and clinical evaluation Definition, classification and clinical features of psychotic disorders Alcohol and drug addiction Definition, classification and clinical features of anxiety disorders Definition, classification and clinical features of obsessive-compulsive disorder and related disorders	Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical Theoretical	1 1 1 1 1 1 1 1 2 1 2 2 2 2 2 1 1 1 1 1



Definition, classification and clinical features of sexual dysfunction;	Theoretical	1
paraphilias and gender dysphoria MEDICAL BIOCHEMISTRY		
Topic	Туре	Time
Sample collection and storage in clinical biochemistry	Theoretical	1
Biochemistry of trauma and tissue injuries	Theoretical	1
Therapeutic drug monitoring	Theoretical	1
Pharmacogenetics	Theoretical	1
MEDICAL PHARMACOLOGY		· ·
Торіс	Туре	Time
Central nervous system pharmacology, central nervous system neurotransmitters	Theoretical	2
Pharmacology of general anaesthesia	Theoretical	2
Local anaesthetic drugs	Theoretical	2
Neuromuscular blocking drugs	Theoretical	1
Sedative and hypnotic drugs	Theoretical	2
Antipsychotic drugs	Theoretical	2
Antidepressant medications	Theoretical	2
Drug abuse and addiction	Theoretical	1
CNS stimulants and hallucinogens	Theoretical	1
Antiepileptic drugs	Theoretical	2
Medications used to treat Parkinson's disease and other movement disorders	Theoretical	1
MEDICAL GENETICS		<u> </u>
Торіс	Туре	Time
Neurogenetic Diseases - Epilepsy - Mental retardation	Theoretical	3
Channelopathies	Theoretical	1
Metabolic diseases	Theoretical	1
CNS anomalies	Theoretical	1
MEDICAL PATHOLOGY		
Торіс	Туре	Time
CNS pathology cells, developmental/genetic conditions and Phacomatoses	Theoretical	2
Neurodegenerative and demyelinating diseases of CNS	Theoretical	2
Vasculary diseases and trauma of CNS	Theoretical	1
Tumors of CNS	Theoretical	2
Perinatal injury	Theoretical	1
The eye and Peripheral Neural diseases	Theoretical	2
Medical Pathology practice: Central nervous system pathology	Practical	3



MUSCULOSKELETAL SYSTEM DISEASES COURSE BOARD PIII –BOARD VI

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Anesthesiology and Reanimation	1	0	1
	Pediatric Health and Diseases	1	0	1
	Physical Medicine and Rehabilitation	8	0	8
	Nuclear Medicine	1	0	1
	Orthopedics and Traumatology	10	0	10
	Radiology	3	0	3
	Medical Biochemistry	1	0	1
	Medical Pharmacology	6	0	6
	Medical Genetics	5	0	5
	Medical Pathology	10	2	12
	Dermatology	3	0	3
	TOTAL	55	2	57

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to teach the signs and symptoms of diseases affecting the musculoskeletal system, to classify diseases with these signs and symptoms and to explain the abnormal laboratory tests and imaging methods that may occur in diseases.

- 1. Lists pathological features of diseases of bones, joints and soft tissue.
- 2. Explains bone and soft tissue tumors, metabolic bone diseases.
- 3. Lists analgesic and anti-inflammatory drugs and centrally acting muscle relaxants.
- **4.** Explains childhood rash diseases and autoinflammatory diseases.
- 5. Explains the imaging methods used in trauma and stroke.
- 6. Explains treatment approaches in acute and chronic pain.
- 7. Counts congenital, traumatic, infectious diseases of the musculoskeletal system and their symptoms.
- 8. Counts musculoskeletal diseases of genetic origin.
- **9.** Describes imaging methods used in diagnosis of the musculoskeletal system diseases and basic imaging findings of them.
- **10.** Lists fracture complications.
- **11.** Comprehends the functions of the musculoskeletal system.
- **12.** Explains basic radiological approaches in musculoskeletal diseases, basic information about radiological images of diseases, radiological anatomy.



ANAESTHESIOLOGY and REANIMATION		
Торіс	Туре	Time
Treatment approaches for acute and chronic pain	Theoretical	1
PEDIATRIC HEALTH AND DISEASES	l	1
Торіс	Туре	Time
Infectious diseases with rashes (in children)	Theoretical	1
PHYSICAL MEDICINE AND REHABILITATION	l	1
Торіс	Туре	Time
Musculoskeletal Examination	Theoretical	2
Approach to arthritic patients	Theoretical	1
Neck pain	Theoretical	1
Back - Low Back Pain	Theoretical	1
Osteoarthritis	Theoretical	1
Spondyloarthropathies	Theoretical	1
Tenosynovitis	Theoretical	1
NUCLEAR MEDICINE	· · · · · · · · · · · · · · · · · · ·	
Торіс	Туре	Time
Nuclear medicine approaches in the musculoskeletal system	Theoretical	1
ORTHOPEDICS and TRAUMATOLOGY	· · · · · · · · · · · · · · · · · · ·	
Торіс	Туре	Time
Limb trauma/fractures	Theoretical	1
Dislocations, soft tissue and ligament injuries	Theoretical	1
Developmental hip dysplasia (hip dislocation)	Theoretical	1
Osteomyelitis and septic arthritis	Theoretical	1
Mesenchymal tumors (bone tumors)	Theoretical	2
Spine deformities	Theoretical	2
Crush injury and compartment syndrome	Theoretical	2
RADIOLOGY		
Торіс	Туре	Time
Imaging methods used in diagnosis of musculoskeletal system diseases, radiologic anatomy and pathology 1	Theoretical	1
Imaging methods used in diagnosis of musculoskeletal system diseases, radiologic anatomy and pathology 2	Theoretical	1
Imaging methods used in diagnosis of musculoskeletal system diseases, radiologic anatomy and pathology 3	Theoretical	1
MEDICAL BIOCHEMISTRY	<u> </u>	1
Торіс	Туре	Time
Biochemical markers in musculoskeletal diseases	Theoretical	1
MEDICAL PHARMACOLOGY		
Торіс	Туре	Time
Opioid analgesic drugs	Theoretical	1
Nonsteroidal anti-inflammatory drugs	Theoretical	2
Centrally acting muscle relaxants	Theoretical	1
General principles of treatment in poisoning	Theoretical	1
Prescribing rules	Theoretical	1
		1
MEDICAL GENETICS		



Diagnosis in Muscle Diseases	Theoretical	1
Genodermatoses	Theoretical	1
Skeletal dysplasia and skeletal anomalies	Theoretical	1
Connective tissue diseases	Theoretical	1
Immunogenetics	Theoretical	1
MEDICAL PATHOLOGY		
Торіс	Туре	Time
Inflammation and non-tumoral diseases of Bone and Joints	Theoretical	2
Tumors of Bone and Soft Tissue	Theoretical	2
Musculoskeletal diseases	Theoretical	2
Basic pathology of non-neoplastic diseases of epidermis and dermis	Theoretical	2
Melanocytic tumors	Theoretical	1
Epidermal and adnexal tumors	Theoretical	1
Medical Pathology practice: Skin and Musculoskeletal System Pathology	Practical	2
DERMATOLOGY		
Торіс	Туре	Time
Structure, Anatomy, Physiology of the skin, and the Principles of Dermatological treatments	Theoretical	1
Identification of Skin Diseases and Elementary Lesions	Theoretical	1
The Diagnostic Methods for dermatological diseases and the Phenomens	Theoretical	1

PUBLIC HEALTH/FORENSIC MEDICINE/ETHICS AND CLINICAL SKILLS COURSE BOARD PIII – BOARD VI

CODE OF THE BOARD COURSES	NAME OF THE BOARD COURSES	THEORETICAL HOURS	PRACTICAL HOURS	SUM OF HOURS
	Exam Feedback Lesson	2	0	2
	Chief Coordinator Feedback Lesson	2	0	2
	Introduction to Course Board Lesson	2	0	2
	Forensics	9	0	9
	Family Medicine	20	0	20
	Public Health	65	0	65
	Clinical Skills III	0	12	12
	History of Medicine and Ethics	8	0	8
	TOTAL	108	12	120

AIMS AND LEARNING OBJECTIVES OF THE COURSE BOARD

Aim:

The aim of this course is to gain knowledge and attitude about the development process of public health insight and the risk factors in health, protection, evidence-based information creation and evaluation in the fields of early diagnosis, to learn about ethics and forensic medicine, and to acquire the clinical skills determined for the current year.



Learning Objectives:

- **1.** Defines the concept of public health, comprehends the issues of basic health services and planning and management of health services and health workforce.
- **2.** Lists the epidemiological criteria, form a comment by calculating these criteria and defines the basic strategy of epidemiology.
- **3.** Lists the basic characteristics of descriptive research, explains the criteria of causality, gives examples by comparing analytical research in terms of their characteristics, explains the basic features and criteria of intervention research through example, explains the basic features and criteria of methodological research through example.
- 4. Explains the health criteria.
- 5. Explains the economic characteristics of health care services.
- **6.** Explains the concept of infectious diseases, classifies infectious diseases according to the ways of transmission, explains the methods of prevention of infectious diseases according to the way of transmission.
- **7.** Talks about the vaccines in the childhood, pregnancy and adult age vaccination calendar applied in Turkey, their doses and the scheme of administration.
- 8. Defines the cold chain, counts the cold chain elements.
- **9.**Defines the basic concepts in the epidemiology of infectious diseases, explains the principles of surveillance of infectious diseases.
- **10.** Groups infectious diseases of which notification is mandatory.
- **11.** Counts the epidemic investigation steps and explains the principles of epidemic investigation and epidemic control measures.
- **12.** Comprehends the epidemiological criteria of occupational health.
- **13.** Defines the concept of occupational disease and risk factors causing it.
- 14. Defines the concept of work accident and risk factors causing it.
- **15.** Defines the concept of emergency situations and causative factors, comprehends the components of health care in extraordinary situations.
- **16.** Explains the concept of environmental influence, explains the concept of environmental disease, counts the types of environmental influences and counts the environmental factors that can affect health (air pollution, water pollution, wastes, etc.).
- **17.** Counts chronic diseases and explains ways of protection.
- **18.** Tells about the concept of early diagnosis and counts the methods of early diagnosis for chronic diseases.
- **19.** Tells about the relationship between nutrition and health.
- 20. Tells about the concept of school and adolescent health.
- **21.** Explains the well-child examination and enumerates the steps of the well-child examination in terms of child health.
- **22.** Explains the concept of reproductive health.
- 23. Explains the concept of demography.
- **24.** Lists the health problems that come together with society aging.
- 25. Lists the types of accidents, talks about the ways of protection against accidents.
- **26.** Explains the concept of protecting and promoting health.
- **27.** Explains the place and importance of ethics in medical practice.
- 28. Explains the legal responsibilities of the physician and the concept of malpractice.
- **29.** Explains the forensic report and its characteristics in cases of sexual assaults, violence, injuries and deaths.



FORENSICS		
Торіс	Туре	Time
1. Neoplasia and Hematopoietic System Diseases Course Board	Туре	Time
Introduction to forensic medicine, legal responsibilities of the physician, medical malpractice	Theoretical	1
Forensic psychiatry, introduction and concepts	Theoretical	1
2. Circulatory and Respiratory System Diseases Course Board	Туре	Time
Forensic reports	Theoretical	1
3. Gastrointestinal System Diseases Course Board	Туре	Time
Injuries	Theoretical	1
4. Endocrine and Urogenital System Diseases Course Board	Туре	Time
Human rights and child abuse	Theoretical	1
Sexual assaults	Theoretical	1
Violence	Theoretical	1
5. Central Nervous System Diseases Course Board	Туре	Time
Pathophysiology of death and brain death	Theoretical	1
6. Musculoskeletal System Diseases Course Board	Туре	Time
Forensic autopsy	Theoretical	1
FAMILY MEDICINE		
Торіс	Туре	Time
1. Neoplasia and Hematopoietic System Diseases Course Board	Туре	Time
Taking anamnesis	Theoretical	2
Obtaining informed consent	Theoretical	2
Head, neck and lymphatic system examination	Theoretical	2
2. Circulatory and Respiratory System Diseases Course Board	Туре	Time
Respiratory system examination	Theoretical	2
Circulatory system examination	Theoretical	2
3. Gastrointestinal System Diseases Course Board	Туре	Time
Abdomen examination	Theoretical	2
4. Endocrine and Urogenital System Diseases Course Board	Туре	Time
Genitourinary system examination	Theoretical	2
Breast, testis, prostate examination	Theoretical	2
5. Central Nervous System Diseases Course Board	Туре	Time
Neurological examination	Theoretical	2
6. Musculoskeletal System Diseases Course Board	Туре	Time
Full physical examination	Theoretical	2
PUBLIC HEALTH		
Торіс	Туре	Time
1. Neoplasia and Hematopoietic System Diseases Course Board	Туре	Time
The concept of public health	Theoretical	1
Primary health services	Theoretical	2
Health administration	Theoretical	1
Planning of health services	Theoretical	1
Health human resources	Theoretical	1
Health services in Türkiye	Theoretical	1
Definition of epidemiology, usage areas and research types	Theoretical	1
Descriptive studies, cause concept in epidemiology, cross-sectional studies	Theoretical	1



Case-control studies	Theoretical	1
Cohort studies	Theoretical	1
Intervention research, methodological research	Theoretical	1
Health measures	Theoretical	2
Research planning	Theoretical	2
2. Circulatory and Respiratory System Diseases Course Board	Туре	Time
Introduction to health economics, factors affecting health	Theoretical	1
Economic characteristics of health care services	Theoretical	1
Techniques of economic evaluation in health	Theoretical	1
Control of communicable diseases	Theoretical	2
Surveillance	Theoretical	1
Outbreak investigation and control	Theoretical	1
Immunization	Theoretical	2
Non-communicable diseases risk factors	Theoretical	1
Non-communicable diseases – The situation in the world and in Türkiye	Theoretical	1
Prevention of non-communicable diseases	Theoretical	1
3. Gastrointestinal System Diseases Course Board	Туре	Time
Healthy lifestyle behaviors	Theoretical	1
Health promotion	Theoretical	1
Health literacy	Theoretical	1
Quality of life	Theoretical	1
Environmental health – basic principles	Theoretical	1
Water and soil pollution	Theoretical	1
Outdoor and indoor air pollution	Theoretical	1
Solid and liquid wastes	Theoretical	1
Environmental medicine	Theoretical	1
Global warming and climate change	Theoretical	1
4. Endocrine and Urogenital System Diseases Course Board	Туре	Time
Evaluation of children's health from a public health perspective	Theoretical	1
The state of children's health and children's rights in the world	Theoretical	1
Situation of child health in Türkiye	Theoretical	1
Protection and promotion of adolescent health	Theoretical	1
School health	Theoretical	1
The determinants of women's health and the concept of gender	Theoretical	1
Women's health problems in the world and in Türkiye	Theoretical	1
Factors affecting fertility	Theoretical	1
Unwanted pregnancies and induced abortions	Theoretical	1
Maternal mortality and safe motherhood	Theoretical	1
Family planning	Theoretical	1
Violence against women	Theoretical	1
5. Central Nervous System Diseases Course Board	Туре	Time
Occupational health and safety – basic concepts	Theoretical	1
Occupational diseases	Theoretical	1
Occupational diseases, work accidents	Theoretical	1
•	Theoretical	1
Definitions and terminology in disaster medicine	Theeretteal	
Definitions and terminology in disaster medicine Health services in disasters	Theoretical	1
Definitions and terminology in disaster medicine		1



Monitoring of malnutrition growth	Theoretical	1
Prevention of nutritional diseases	Theoretical	1
6. Musculoskeletal System Diseases Course Board	Туре	Time
International health	Theoretical	1
Health problems of refugees and displaced persons	Theoretical	1
Elderly	Theoretical	1
Public health and disability	Theoretical	1
Violence from a public health perspective	Theoretical	1
Sustainable development goals	Theoretical	1
Protection from accidents and injuries	Theoretical	1
CLINICAL SKILLS (CSK III)		
Торіс	Туре	Time
1. Neoplasia and Hematopoietic System Diseases Course Board	Туре	Time
2. Circulatory and Respiratory System Diseases Course Board	Туре	Time
3. Gastrointestinal System Diseases Course Board	Туре	Time
4. Endocrine and Urogenital System Diseases Course Board	Туре	Time
5. Central Nervous System Diseases Course Board	Туре	Time
6. Musculoskeletal System Diseases Course Board	Туре	Time
HISTORY OF MEDICINE AND ETHICS		
Торіс	Туре	Time
What is 'ethics', what is 'ethics' in medical practice'?	Theoretical	2
Ethical approach in organ transplantation, euthanasia and reproductive technologies	Theoretical	2
Ethical and legal approach to patient rights	Theoretical	2
Ethical approach in medical research and publications, ethics committees	Theoretical	2