

REPUBLIC OF TURKEY
MALTEPE UNIVERSITY FACULTY OF MEDICINE
2023 - 2024 ACADEMIC CALENDAR PROGRAM
OUTLINE and HOURSS
PHASE I

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks	AKTS
MED 101	Basic Sciences I Subject Committee	53	5	58	7	42
MED 103	Basic Sciences II Subject Committee	102	7	109	9	
MED 102	Basic Sciences III Subject Committee	129	19	148	10	
MED 104	Basic Sciences IV Subject Committee	113	32	145	9	
KUG 100	Human Sciences in Medicine and Introduction to Clinical Practices		26	26	13	
ENG 115	Medical English-I	28	0	28	14	2
ENG 116	Medical English-II	28	0	28	14	2
ATA 151	Principles Of Atatürk and History Of Revolution-I	28	0	28	14	2
ATA 152	Principles Of Atatürk and History Of Revolution-I I	28	0	28	14	2
TRD 151	Turkish Language-I	28	0	28	14	2
TRD 152	Turkish Language-II	28	0	28	14	2
	Elective Course-I (Fall Somester)	28	0	28	14	2
	Elective Course-II (Fall Somester)	28	0	28	14	2
	Elective Course-III (Spring Somester)	28	0	28	14	2

COMMITTEE 1
BIOCHEMISTRY

Introduction to Biochemistry
Structure and feature of water
Solutions and concept of concentration
Acids and Bases and pH
Amino acids
Structure and Functions of Proteins
Structure and Functions of Vitamins and Coenzymes
Structure and Functions of Proteins
Minerals and Trace Elements

HISTORY OF MEDICINE

The Meaning of History of Medicine, Medicine in Prehistorical Periods
Medicine in the Ancient Ages
Medicine in the Middle Ages
Turkish Medicine from the Beginning to the Ottoman Period
Turkish Medicine in the Ottomans and in the Turkish Republic Period
Western Medicine from Renaissance to today

MEDICAL BIOLOGY

Introduction to Medical Biology
Biomolecules and Evolution
Structure and Functions of Nucleic Acids
Chromosome Structure and Epigenetics
DNA Replication
Cytogenetics
DNA Damage and Repair Mechanisms

ORGANIC CHEMISTRY

Carbon Atom and Hybridisation
Organic Reaction Types and Forms
Alcohol and Esters
Aliphatic Organic Compounds
Aromatic Organic Compounds
Sulfur Compounds
Carboxylic Acids and Derivatives
Stereoisomerism
Amines and Related Nitrogenous Compounds
Aldehydes and Ketones

PHYSICS

Introduction to Biophysics
Measurement
Waves: Longitudinal and Standing Waves
Fluids

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Electrical Field and Dipole
Molecular Forces
Effects of Electrical Current on Body
Optics and Optical Medical Instruments

COMMITTEE 2

BEHAVIOURAL SCIENCE

Psychoanalytic Theory
Stress and Adaptation
Disease, Health and Normality
Patient-Doctor Relationship
Defense Mechanisms
Biopsychosocial Model

BIOCHEMISTRY

Biological Oxidation, Bioenergetics and ATP
Introduction to Enzymes and Kinetics
Biosynthesis and Post-translational Modifications of Proteins
Protein Targeting
Protein Turnover
Structure and Functions of Carbohydrates
Structure and Functions of Lipids
Structure and Functions of Nucleotides

BIOPHYSICS

Biomechanics: Vectors
Biomechanics: Torque and Rotational Movement
Biomechanics: Elastic Properties of Tissues
Imaging Techniques and Principles (Ultrasound and NMR)
Heat, Thermodynamics and Bioenergetics
Principles of Recording Biomedical Signals

MEDICAL BIOLOGY

Transcription
Genetic Code and Protein Synthesis
Regulation of Gene Expression
Regulation of Gene Activity in Prokaryotes
Regulation of Gene Activity in Eukaryotes
Molecular Basis of Genetic Variation
Immunogenetics

COMMITTEE 3

ANATOMY

Introduction to Anatomy, Important Anatomical Terms
Bones of Upper Limb
Bones of Lower Limb
Thorax and Ribs
Vertebrae and Vertebral Column
Skull
Splanchnocranium
Neurocranium, Cranial Cavity
Temporal, Infratemporal and Pterygopalatine Fossae

BEHAVIOURAL SCIENCE

Cognition and Emotions
Thinking, intelligence and learning
Sexuality
Culture and Disease
Violence
Adulthood
Personality Process
Aging

BIOCHEMISTRY

Biomembrane Components and Transport I
Biomembrane Components and Transport II
Glycolysis
Glycogen metabolism
Gluconeogenesis
Metabolism of monosaccharides other than glucose
Citric acid cycle

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FAKÜLTE SEKRETERİ

Respiratory chain
Pentose phosphate pathway
Glucuronic acid metabolism
Regulation of blood glucose
Biosynthesis of lipids
Lipid Catabolism

BIOPHYSICS

Diffusion and Fick's Law
Gibbs-Donnan Equilibrium
Nernst Equilibrium
Generation of Membrane Potential
Kinetics of the Voltage Gated Channels
Action Potential
Membrane Potential Changes Induced by Subthreshold Stimulus
Compound Action Potential

BIOSTATISTICS

Definition and Use of Biostatistics
Descriptive Statistics
Tables and Graphics
Types and Sources of Data
Demographic and Morbidity Statistics

HISTOLOGY

Introduction to Histology: Histochemical Technics and Basic Principles
Introduction to Embryology
Microscopy
Basic Techniques for Microscopy
Cell Structure 1: Plasmalemma
Cell Structure 2: Organelles & Inclusions
Cell Structure 3: Organelles & Inclusions
Cell Structure 4: Cytoplasm
Cell Structure 5: Cytoskeleton
Cell Structure 6: Nucleus
Stem Cells
Epithelial Tissue
Fertilization
Gametogenesis
Early Embryological Period: First Week

MEDICAL BIOLOGY

Prokaryotic, Eukaryotic Cells
Cytoplasm and Cellular Organelles
Nuclear Transport
Cell Cycle and Its Regulation
Cell Division and Gametogenesis
Cellular Aging
Cell Death
Signal Transduction
Molecular Basis of Cancer
Cell Culture
Stem Cells
Recombinant DNA Technology and Its Applications

MEDICAL MICROBIOLOGY

Introduction to Microbiology
Eucaryotes and Procaryotes
Bacterial Morphology and Classification
Bacterial Metabolism
Bacterial genetics
Bacterial growth
Microbiota-Sampling for Microbiology
Viral Classification, Structure and Replication
Fungal classification, structure and general properties
Parasitic Classification, Structure and General Properties
Disinfection and Sterilization
Introduction to Immunology

PHYSIOLOGY

Volume and Composition of Body Fluids
Homeostasis

YILDIZ TOMBUL
FAKÜLTE SEKRETERİ

Cell Membrane and Transport of Substances Across the Cell Membrane
Bioelectric Potentials
Capillary Fluid Exchange

COMMITTEE 4

ANATOMY

Body Joints in General
Joint Types
Axial Scleron Joints
Appendicular Scleron Joints
Introduction to Myology
Pectoral Region and Superficial Back Muscles
Superficial Muscles of Back and Neck
Deep Muscles of Back and Neck
Shoulder Muscles
Axillary Region
Anterior Group (Flexor) Arm Muscles
Posterior Group (Extensor) Arm Muscles
Hand Anatomy
Plexus Brachialis
Gluteal Region and Hip Muscles
Anterior, Lateral and Medial Region of Thigh
Posterior Thigh Muscles, Popliteal Fossa
Leg Anterior Muscles
Leg Lateral Muscles
Leg Posterior Muscles
Foot Anatomy
Foot Anatomy
Anterior and Lateral Neck

BEHAVIOURAL SCIENCE

Verbal and non-verbal communication and empathy
Application: Verbal and non-verbal communication and empathy
Biological Foundations of Behaviors
Psychological Foundations of Behaviors
Suicide

BIOCHEMISTRY

Connective Tissue Biochemistry

BIOPHYSICS

Radioactivity and Types of Radioactive Decay
Interferation of Radioactive Beams with Materials
Radioactivity Units and Protection from Radiation
Effects of Non-iodised Radiation
Biological Effects of Radiation
Production of X-Rays
PET and Computerised Tomography
Laser Beams and it's used in Medicine

HISTOLOGY

Connective Tissue
Cartilage Tissue
Bone Tissue
Osteogenesis
Muscle Tissue
Development and Histology of Skin
Formation Of Bilaminar Embryonic Disc: Second Week
Formation Of Germ Layers and Early Tissue and Organ Differentiation: Third Week
Plasenta and Fetal Membranes
The Fetal Period: Ninth Week To Birth
Congenital Malformations and Birth

MEDICAL BIOLOGY

Mendelian Genetics
Inheritance Patterns of Monogenic Diseases
Beyond Mendel's Laws
Non-Mendelian Inheritance
Population Genetics

PHYSIOLOGY

Striated Muscles and Contraction Theories



Striated Muscles and Mechanical Features
 Physiology of Smooth Muscles
 Nerve Muscle Junction
 Synaptic Transmission and Receptors
 Otonomic Nervous System
 Periferical Nervous System Physiology
 Spinal Reflexes

REPUBLIC OF TURKEY
MALTEPE UNIVERSITY FACULTY OF MEDICINE
2024 - 2025 ACADEMIC CALENDAR PROGRAM
OUTLINE and HOURSS
PHASE II

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks	AKTS
MED 208	Nervous System Subject Committee	112	29	141	8	52
MED 205	Blood, Circulation And Respiratory System Subject Committee	115	28	143	8	
MED 207	Gastrointestinal System And Metabolism Subject Committee	106	27	133	7	
MED 209	Endocrine And Urogenital System Subject Committee	94	25	119	6	
MED 206	Biological Basis of Disease-I Subject Committee	80	11	91	6	
KUG 200	Human Sciences in Medicine and Introduction to Clinical Practices	0	20	20	10	
ENG 215	Medical English-III	28	0	28	14	2
ENG 216	Medical English-IV	28	0	28	14	2
	Elective Course-I (Fall Somester)	28	0	28	14	2
	Elective Course-II (Spring Somester)	28	0	28	14	2

COMMITTEE 1

ANATOMY

Introduction to Nervous System and Central Nervous System
 Meninges, Cysterna subarachnoidalis, ventricles, CSF
 Dura mater, sinuses
 P.N.S. - Plexuses
 P.N.S. - Cranial Nerves
 P.N.S. - Autonomic Nervous System
 Central Nervus System - Spinal Cord
 Brain Stem
 Cerebellum
 Diencephalon
 Limbic system
 Telencephalon
 Basal ganglia
 Vessels of the Central Nervous System
 The Ear
 The Eyeball, The visual pathways

BIOPHYSICS

Passive Conduction in Nerves
 Biophysical Characteristics of Sensory Receptors
 Biophysical Basis of Electroensaphalografy
 Biophysics of Vision
 Biophysics of Hearing

HISTOLOGY

Histology of Nervous System
 Development of Nervous System
 Histology of Eye
 Histology of Ear
 Development of Eye
 Development of Ear

MEDICAL MICROBIOLOGY

Laboratory diagnosis of bacterial diseases
 Staphylococcus
 Enterococcus and other Gram-positive cocci
 Aerobic non-spore-forming gram-positive rods
 Gram-negative cocci



Mycoplasma and Ureaplasma
Mycobacteria and lepra
The mechanism of bacterial pathogenesis
Streptococcus
Actinomycetes, Nocardia, Rhodococcus
Spirochetes
Rickettsia and Coxiella
Chlamydia and Chlamydophila

PHYSIOLOGY

Sensory cortex
Motor cortex and pyramidal system
Basal ganglia
Cerebellum
Cerebral cortex and higher functions of the nervous system, learning and memory
Thalamus Functions
Limbic system
Physiology of Hearing
Limbic system
Cerebrospinal fluid
Cerebellum
Physiology of Vision
Sense of taste and smell
Physiology of Sleep
EEG
EEG

COMMITTEE 2

ANTOMY

Anatomy of Nose
Larynx
Trachea, Pericard, Lungs
Thoracic Wall and Mediastinum
Heart, Pericard
Diaphragm
Aorta (Ascending, Arch, Thoracic)
Abdominal Aorta
Arteries of Upper Limb
Arteries of Lower Limb
Veins
Lymphatic System

BIOCHEMISTRY

Blood Biochemistry
Blood Biochemistry
Heme Proteins
Heme Proteins
Structure and Functions of Hemoglobine
Structure and Functions of Hemoglobine
Structure and Metabolism of Erythrocytes
Structure and Metabolism of Erythrocytes
Blood Coagulation and Fibrinolysis
Blood Coagulation and Fibrinolysis
Biochemistry of Anemia
Biochemistry of Anemia
Biochemistry of Anemia
Biochemistry of Vascular Phenomena
Cardiac Muscle Metabolism
Cardiac Muscle Metabolism

BIOPHYSICS

Bioelectrical Processes in The Heart
Biophysical Basis of Electrocardiography
Basic Principles of Hemodynamics
Physiological Control Systems
Blood Pressure Control System
Modeling of Cardiovascular System
Dynamics of Respiratory System



HISTOLOGY

Blood

Hematopoiesis

Histology of Lymphoid System

Histology of the Heart

Development of the Heart & Vessels

Fetal Circulation

Histological Features of Vessels

Histology of Respiratory System

Development of Respiratory System

Immune System

MEDICAL MICROBIOLOGY

General properties of Enterobacteriaceae

Escherichia coli

Klebsiella, Proteus and Yersinia

Salmonella and Shigella

Pseudomonas and other non-fermentatives

Vibrio

Bordetella

Haemophilus

Campylobacter and Helicobacter

Francisella – Legionella

Brucella

Anaerobic bacteria

Clostridiaceae

PHYSIOLOGY

Functions and Physical Properties of Blood

Production and Regulation of Blood

Physiological Properties of Erythrocytes

Blood Groups And Transfusion

Functions of Leucocytes

Functions of Thrombocytes and Coagulation

Regulation of Respiration

Transport of Gases in the Blood

Regulation of Respiration

Physiologic properties of Cardiac Muscle

Regulation of Heart Functions

Blood Pressure

Regulation of Heart Functions

ECG

Cardiac Valve Functions and Heart Sounds

Pathophysiology of Circulatory System

Introduction to Respiratory Physiology

Ventilation / Perfusion Relationship

COMMITTEE 3

ANTOMY

Oral Cavity

Salivary Glands, Teeth

Pharynx, Esophagus

Peritoneum

Stomach

Small and Large Intestine

Muscles of Posterior Abdominal Region

Anterolateral Group of Abdominal wall muscles, Inguinal Canali Femoral Canal, Hernias

Pancreas, Spleen

Liver, Gallbladder and Biliary Ducts

BIOCHEMISTRY

Carbohydrate Metabolism

Lipids and Lipoprotein Metabolism

Introduction to Amino Acids Metabolism

Biological Amines and Endogen Amino Acids

Nutrition Biochemistry, Energy And Activity

Ammonia Metabolism

Special Metabolic Pathways of Amino Acids

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Metabolism of Nucleotides
Physiological Buffering Systems
Catabolism of Carbon Skeleton of Amino Acids
Special Metabolic Pathways of Amino Acid
Metabolism of Inorganics
Porphyrins and Bile Pigments
Biochemical Importance of Vitamins
Digestion and Absorption of Nutrients
Nutrition Biochemistry, Energy And Activity
Porphyrins and Bile Pigments
Metabolism of Alcohol and Detoxification Mechanisms

HISTOLOGY

Histology of Upper Digestive System
Histology of Lower Digestive System
Gastrointestinal System Associated Glands
Development of Digestive System
Development of gastrointestinal glands

MEDICAL MICROBIOLOGY

The mechanism of viral pathogenesis
Herpesviruses
Poxviruses and Picornaviruses
Adenoviruses
Parvoviruses - Reovirus
Papovaviruses
Paramyxoviruses
Orthomyxoviruses
Coronaviruses and noroviruses
Orthomyxoviruses
Hepatitis viruses
Retroviruses and HIV
Rhabdoviruses
Togaviruses, Flaviviruses, Bunyaviruses
Slow virus infections and prions
Viruses and carcinogenesis
Laboratory diagnosis of viral infections

PHYSIOLOGY

Introduction to Physiology of Digestion, Oral Digestion and Deglutition
Gastric Digestion
Digestion in Small and Large Intestines
Exocrine Function of the Pancreas
Function of the Liver and the Role of Bile in Digestion
Gastrointestinal Hormones
Gastric and Intestinal Tract Absorption
Body Temperature Regulation
Basal Metabolic Rate, Balanced Diet, Hunger, Satiety

COMMITTEE 4

ANTOMY

Kidney
Ureter, Urinary Bladder
The Pelvis and Perineum
The Female Genital Organs
The Male Genital Organs
Endocrine Glands

BIOCHEMISTRY

Introduction to Hormones I
Introduction to Hormones II
Hypothalamic-Pituitary Hormones
Calcium-Phosphate Metabolic Hormones
Pancreas Hormones
Steroid Hormones
Catecholamines
Eicosanoids
Renin-Angiotensin-Aldosterone System
Thyroid Hormones

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HISTOLOGY

Histology of Urinary Tract
Development of Urinary Tract
Histology of Female Reproductive System
Histology of Male Reproductive System
Development of Reproductive System
Histology of Endocrine System
Development of Endocrine Glands

MEDICAL MICROBIOLOGY

Superficial Mycoses
Subcutaneous Mycoses
Systemic mycoses
Opportunistic Mycoses
Intestinal and Urogenital Protozoa
Blood And Tissue Protozoa
Nematodes
Trematodes
Cestodes

PHYSIOLOGY

General Consideration of Renal Physiology
Renal Glomerular Function
Renal Tubular Function
Acid-Base Balance
Clearance and Micturition
General Information About Hormones
Physiology Of The Pituitary And Hypothalamus Hormones
Thyroid Hormones Physiology
Physiology of Parathyroid Hormone and Calcitonin
Physiology of the Endocrine Functions of the Pancreas
Physiology of Adrenal Gland Hormones
Physiology of Male Reproductive System and Hormones
The Physiology of Adipose Tissue Hormones
Physiology of Female Reproductive System and Hormones

COMMITTEE 5

BIOCHEMISTRY

Introduction To Clinical Biochemistry and Instrumentation instrumentation
Clinical Biochemistry of Body Fluids
Factors Determining Enzyme Leakage into Blood
Free Radicals
Biochemistry of Aging

MEDICAL MICROBIOLOGY

Introduction to immunology
Innate immunity
Cytokines
Antigen presentation and recognition
Cell mediated immunity and effector mechanisms
Humoral immunity and effector mechanisms
Immunity to tumors
Transplantation immunology
Hypersensitivity disorders
Immunologic tolerance and autoimmunity
Immunodeficiencies
Vaccines
Immunologic laboratory techniques

PATHOLOGY

Introduction To Pathology
Cellular Responses to Stress and Noxious Stimuli
Adaptations of Cellular Growth and Differentiation
Cell Injury and Cell Death
Morphologic Alterations in Cell Injury
Mechanisms of Cell Injury
Ischemic and Hypoxic and Toxic Injury
Apoptosis
Intracellular Accumulations

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Pathologic Calcification and Cellular Aging
 Overview of Inflammation: Definitions and General Features
 Acute Inflammation
 Mediators of Inflammation
 Chronic Inflammation
 Injury and Tissue Repair
 Immune System
 Hemodynamic Disorders

PHARMACOLOGY

Introduction to Medical Pharmacology
 Absorption of Drugs and Transport through Biological Membranes
 The Dynamics of Drug Distribution
 The Dynamics of Drug Metabolism
 The Dynamics of Drug Elimination
 Dose, Concentration-Effect Relationship
 Drug Receptors and Pharmacodynamics
 Mechanisms of Drug Action
 Environmental Toxicology
 Mechanisms of Drug Action
 Factors Contributing to Variations in Drug Effects
 Pharmacogenetics
 Drug Side Effects
 Drug-Drug Interactions
 Routes of Drug Administration
 Pharmaceutical Forms of Drugs
 Pharmacovigilance
 Principles of Prescription Writing

**PHASE III 2025–2026 ACADEMIC YEAR
 REPUBLIC OF TURKEY
 MALTEPE UNIVERSITY FACULTY OF MEDICINE**

Code	Course	Theoretical Hours	Practical Hours	Total Hours	Weeks	AKTS
MED 301	Biological Basis of Diseases II: Neoplasia and Hematopoietic System Subject Committee	58	4	62	4	56
MED 303	Biological Basis of Diseases III: Microorganisms and Diseases Caused Subject Committee	57	7	64	4	
MED 305	Circulation and Respiratory System Subject Committee	103	7	110	6	
MED 307	Gastrointestinal System Subject Committee	54	7	61	4	
MED 312	Urogenital and Endocrine System Committee	102	7	109	6	
MED 313	Neurological Sciences, Psychiatry and Musculoskeletal System Subject Committee	97	7	104	6	
MED 308	Public Health and Forensic Medicine Subject Committee	79	3	82	5	
KUG 300	Human Sciences in Medicine and Introduction to Clinical Practices	0	32	32	16	
	Elective Course-I (Fall Semester)	28	0	28	14	2
	Elective Course-II (Spring Semester)	28	0	28	14	2

COMMITTEE 1

BIOCHEMISTRY

Biochemistry of Cancer

HEMATOLOGY

Hemophilia

Hematopoiesis And Pathophysiology Of Bone Marrow

General Approach to Coagulation Disorders

Common Laboratory Tests in Hematology

Clinical Approach to Hematologic Malignant Diseases

Leukemia

Lymphomas

M. PHARMACOLOGY

Histamine, bradikinin and antagonists

Drugs used for treatment of Anemias

Eicosanoids and other Autocoids

Peptide Structured Autocoids

General Principles of Cancer Chemotherapy

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 FAKÜLTE SEKRETERİ**

Drugs Used in Cancer Chemotherapy

Hematopoietic Agents

Immunomodulatory Drugs

MEDICAL GENETICS

Genetics of Cancer

Chromosomal Abnormalities

Monogenic and Mitochondrial Diseases

NUCLEAR MEDICINE

Basic physics of nuclear medicine I

Basic physics of nuclear medicine II

Interactions of radiation with matter

PATHOLOGY

Neoplasia: Nomenclature

Benign and malignant tumors

Carcinogenesis.

Metastasis

Red Blood Cell and Bleeding Disorders

Bone marrow pathology

Spleen and Thymus

Lymphadenitis

Lymphomas: Hodgkin

Lymphomas: Non-Hodgkin

COMMITTEE 2

INFECTIOUS DISEASES

General Characteristics of Infectious Diseases

Nervous System Infections

Approach to Respiratory Tract Infections

Viral Hepatitis

Urinary Tract Infections

Soft Tissue Infections

Sexually transmitted infections

Acute gastroenteritis

Control of Nosocomial Infections

PHARMACOLOGY

General Principles of Antimicrobial Therapy

Beta-Lactam Antibiotics

Penicillins

Cephalosporins

Other Beta-Lactam Antibiotics and Beta-Lactamase Inhibitors

Protein synthesis inhibitors

Aminoglycosides

Tetracyclines

Chloramphenicol

Macrolides

Lincosamides

Quinolones and Fluoroquinolones

Sulfonamides, Trimethoprim-sulfamethoxazole

Narrow spectrum antibiotics for Staphylococcus and anaerobic infections

Chemotherapy of Malaria

Chemotherapy of Tuberculosis, Mycobacterium Avium Complex Disease and Leprosy

Antiviral Agents

Antiseptics and Disinfectants

Anti fungal drugs

Chemotherapy of Protozoal Infections

Chemotherapy of Helminth Infections

MEDICAL GENETICS

Hybridoma Technology

New generation vaccines

NUCLEAR MEDICINE

Radiation detection and measurement

Biologic effects of radiation I

Biologic effects of radiation II

PATHOLOGY

General Principles of Microbial Pathogenesis

Pathology of bacterial Infections

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Pathology of viral diseases
Pathology of Fungal and Parasitic Diseases

COMMITTEE 3

ANESTHESIOLOGY

Cardiopulmonary Arrest and Resuscitation

CARDIOLOGY

History taking, symptoms and definitions in cardiovascular system
Physical examination in cardiovascular system
Signs and symptoms of heart disease- Chest Pain-Cyanosis
Auscultation of heart sounds and murmurs
Signs and symptoms of heart disease- Dyspnea and Oedema
Electrocardiography uses and practice
Electrocardiography
Hypertension, clinics and laboratory findings
Measuring blood pressure and examination of the extremities
Electrocardiography
Electrocardiography
Tachyarrhythmias (supraventricular and ventricular arrhythmias)
Atherosclerosis and Coronary artery disease definition and pathophysiology
Heart failure definition pathophysiology management
Stable angina pectoris Clinical manifestation and definition
Unstable Angina Pectoris and myocardial infarction
Approach to Syncope

CHEST DISEASES

Signs and symptoms in respiratory diseases
Arterial blood gases
Lung function tests
Pneumonia
Pleural effusion and empyema
Obstructive lung diseases (COPD, Bronchial Asthma, Bronchiectasis)
Interstitial lung diseases
Sarcoidosis
Physical examination of the thorax
Occupational lung diseases
Physical examination of the thorax (Medical skills lab)
Tuberculosis
Lung tumor
Pulmonary embolism
Pulmonary hypertension

ENT

Nasal and sinus diseases
Diseases of pharynx and larynx

M. PHARMACOLOGY

Introduction to Autonomous Nervous system Pharmacology
Sympathomimetic agents
Sympatholytic agents
Parasympathomimetic agents
Parasympatholytic agents
Agents acting at the neuromuscular junction and autonomic ganglia
Renin-angiotensin system pharmacology
Beta adrenergic receptor blockers
Antihypertensive agents
Drugs used for ischemic heart diseases
Drugs therapy for hypercholesterolemia and dyslipidemia
Anti-arrhythmic drugs
Pharmacotherapy of heart failure
Drugs used for peripheral vascular diseases
Anticoagulant, fibrinolytic drugs
Thrombolytic Drugs
Antiplatelet Drugs
Plasma expanding solutions
Hemostatic and replacement drugs
Drugs used in fluid electrolyte imbalances
Drugs used in Acid base balance disorders
Diuretic drugs

Pharmacotherapy for obstructive pulmonary diseases
Antitussives, mucolytics and expectorants

NUCLEAR MEDICINE

Radiation safety
Radiochemistry and radiopharmacy

PATHOLOGY

Atherosclerosis and hypertension
Vasculitis
Congenital cardiac diseases
Obstructive Diseases
Restrictive Diseases
Upper respiratory diseases
Granulomatous Diseases
Pulmonary neoplasms, pleural and mediastinal diseases
Lung Infections, Acute Lung Injury
Heart Failure
Ischemic heart diseases
Cardiomyopathies
Congenital anomalies, atelectasis

RADIOLOGY

Circulatory and Respiratory Systems Radiology

COMMITTEE 4

GASTROENTEROLOGY

Esophagus Diseases
Gastroesophageal Reflux Disease
Malabsorption
GIS Physical Examination
Peptic Ulcer, Gastric Cancer
Esophageal Tumors
Dyspepsia, Helicobacter pylori and Gastritis
Inflammatory Bowel Diseases
Liver Function Tests
Chronic Hepatitis, Liver Tumors
Chronic Diarrhea
Upper Gastrointestinal Bleeding
Lower Gastrointestinal Bleeding
Acute and Chronic Pancreatitis
Ascites
Jaundices
Hepatic Encephalopathy
Toxic Hepatitis
Diseases of Gall Bladder and Bile Ducts
Cirrhosis and Portal Hypertension
Colonic polyps, Colon cancer

GENERAL SURGERY

Abdominal Physical Examination
Anal, Perirectal Physical Exam, Rectal Examination
Principles of Surgical Treatment in Peptic Ulcer Disease
Principles of Surgical Treatment in GIS Neoplasias

M. PHARMACOLOGY

Pharmacotherapy of Inflammatory Bowel Diseases
Pharmacotherapy of Peptic Ulcers and GERD
Anti-Diarrheal Agents
Agents used in biliary and pancreatic disease
Laxatives, Cathartics, and Therapy for Constipation
Emetic and Antiemetic Agents
Uses of Vitamins as Therapeutic Agents
Diagnosis and Treatment of Drug Poisoning

MEDICAL GENETICS

Genetics of Gastrointestinal System

NUCLEAR MEDICINE

Diagnostic applications of nuclear medicine – Lung diseases
Diagnostic applications of nuclear medicine – Hematologic and gastrointestinal diseases

PATHOLOGY

Disease of Oral Cavity and Salivary Glands



Esophagus Pathology
Gastric Pathology, Gastritis, Peptic Ulcer Disease
Malabsorption Disorders
Inflammatory Bowel Diseases
Gastrointestinal System Tumors
Small And Large Bowel Diseases
Liver and Bile Duct Diseases
Pancreas Diseases

RADIOLOGY

Gastrointestinal Systems Radiology

COMMITTEE 5

ENDOCRINOLOGY

Diabetes mellitus, Acute and chronic complications of diabetes
Thyrotoxicosis and hyperthyroidism
Nontoxic goiter and thyroid neoplasms
Pituitary disorders
Diabetes insipidus and syndrome of inappropriate antidiuretic hormone
Hypoglycemia and Obesity
Hypothyroidism and Thyroiditis
The metabolism of calcium and vitamin D, Hypo and hypercalcemia
Cushing Sendromu
Pathophysiology of adrenal gland, Addison's disease, Pheochromocytoma
Endocrine hypertension, Hyperaldosteronism
Thyroid hormone synthesis and diagnostic tests

GENERAL SURGERY

Approach to Thyroid Nodules and Hyperthyroidism
Breast Diseases

GYNECOLOGY&OBSTETRICS

Approach to Infertile Couple
Contraception
Menstrual Cycle and Puberty
Gynecology/Obstetrics History, Physical/pelvic examination
Female Genital Anatomy
Endocrinology of Pregnancy
Pregnancy Development and Maternal Physiology
Pregnant Woman Examination
Antenatal follow-up
Prenatal follow up and diagnostic tests
Cervix Benign Diseases
Cervix Malignant Diseases
Normal Labor and Delivery
Benign Ovarian Diseases
Malignant Ovarian Diseases
Malignant Diseases of Uterine Corpus
Benign Diseases of Uterine Corpus
Benign and Malignant Diseases of Vagina and Vulva

M. PHARMACOLOGY

Basic Principles of Endocrine System Pharmacology
Hypothalamic-Pituitary Axis Hormones
Androgens, anabolic steroids and antiandrogenics
Estrogens, Progestins and Antagonists
Drugs Used to Control Fertility
Oxytocin and Tocolytic Drugs
Thyroid and Anti-Thyroid Drugs
Insulin, Oral Hypoglycemic Agents and Glucagon
ACTH, Adrenal Steroids, and Pharmacology of the Adrenal Cortex
Agents Affecting Calcium and Phosphate Homeostasis and Bone Turnover
Vasopressin Analogs and antagonists

MEDICAL GENETICS

Molecular Approaches in Diagnosis and Prognosis of Thyroid Diseases
Genetic Basis of Diabetes Mellitus
Genetic Basis of Infertility

NEPHROLOGY

Basic Principles of Renal Physiology
Evaluation of Kidney Function and Clinical approach to Renal Diseases


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Proteinuria and hematuria
Akut Kidney Insufficiency
Hereditary kidney disease
Chronic Renal Insufficiency
Acute and Chronic Glomerulonephritis

NUCLEAR MEDICINE

Diagnostic applications of nuclear medicine – Genitourinary diseases
Diagnostic applications of nuclear medicine – Endocrine diseases

PATHOLOGY

Thyroid diseases
Adrenal diseases pathology
Pituitary and pineal gland disorders
Pathology of Glomerular Diseases
Vascular diseases of the kidney
Cystic diseases of the kidney
Parathyroid diseases
Tubular and Interstitial Diseases and Urinary Tract Obstruction
Male genital system pathologies
Renal and Urinary Bladder Tumors
Endocrine pancreas and diabetes mellitus
Gestational and placental diseases pathology
Cervix Vulva Vagina Diseases
Tubaovarian diseases
Endometrial and myometrial diseases
Skin Disorders
Breast Diseases Pathology

RADIOLOGY

Urogenital Systems Radiology

UROLOGY

History taking in Urology and Urogenital System Examination
Urinary System Symptoms
Introduction to Urogenital Tumors
Urinary Stone Disease
Benign Prostate Hyperplasia
Male Infertility
Male Sexual Dysfunction

COMMITTEE 6

ENT

Vestibular System
Facial palsy

PHARMACOLOGY

Fundamentals Of Central Nervous System Pharmacology
Pharmacotherapy of Psychosis and Mania
Parkinson Disease
Drug Abuse And Drug Addiction
Toxicology of Alcohols and Ethanol Addiction
Central Nervous System Stimulants
Pharmacotherapy of The Epilepsies
Hypnotics and Sedatives
Drug Therapy of Depression and Anxiety Disorders
Local Anesthetics
Neuromuscular Blocking Agents and Centrally Acting Muscle Relaxants
Centrally Acting Muscle Relaxants
Drugs Used for Prevention and Treatment of Osteoporosis
General Anesthetics
Opioid Analgesics
Non-Opioid Analgesics
Pharmacotherapy of Rheumatoid Arthritis
Pharmacotherapy of Migraine
Pharmacotherapy of Gout
Drugs Used for the Treatment of Central Nervous System Degenerative Disorders and Multiple Sclerosis

NEUROLOGY

High Cortical Functions
Motor neuron disease
Cranial Nerves

Motor and Sensory pathways
Demyelinating Diseases
Encephalities
Neurosonnology
Polyneuropathies
Headache
Epilepsy: Pathophysiology and Semiology
Extrapyramidal System Disorders: Pathophysiology
Muscle Disorders
Neuromuscular Junction Diseases
Disorders of consciousness
Dementia
Cerebrovascular Diseases

NUCLEAR MEDICINE

Diagnostic applications of nuclear medicine – Brain and Cardiovascular diseases
Diagnostic applications of nuclear medicine – Musculoskeletal diseases
Therapeutic applications of nuclear medicine – Treatment of benign and malignant thyroid disorders
Therapeutic applications of nuclear medicine – Other treatment modalities

OPHTHALMOLOGY

Introduction To Ophthalmology, Optic Accommodation, Refraction and Refractive Errors
The Physiology of the Vision, Visual Pathways and Diseases
Retinal Diseases
Eye Movement Disorders and Nystagmus

PATHOLOGY

Infectious and Noninfectious Diseases of the Joints
CNS Tumors
CNS Cell pathology
CNS Malformations and Developmental Disease
CNS Vascular Diseases and Trauma
Cerebral Edema, Hydrocephalus, Increased Intracranial Pressure and Herniation
CNS Infections, Prion Diseases
Peripheral Nervous System and Skeletal Muscle Disorders Diseases
Neurodegenerative and Demyelinating Diseases
Genetic and Acquired Metabolic Diseases, Toxic Diseases
Soft Tissue Disorders
Acquired Bone Diseases
Overview Of Bone Pathology, Developmental Disorders Of Bone and Cartilage
Bone Tumors
Bone Fracture, Fracture Healing
Osteonecrosis and Osteomyelitis

PHYSICAL MEDICINE

Osteoporosis Pathogenesis and Rehabilitation
Nonarticular Rheumatism Pathogenesis and Rehabilitation
Neck Pain Pathogenesis and Rehabilitation
Low Back Pain Pathogenesis and Rehabilitation
Soft Tissue Rheumatism Pathogenesis and Rehabilitation
Osteoarthritis Pathophysiology and Rehabilitation

PSYCHIATRY

Introduction to Psychiatry, the Patient-Doctor Relationship
Basic Principles of Psychiatric Interview
Mental Disorders Due To General Medical Conditions
Psychiatric Examination
Anxiety and Related Disorders
Mood Disorders
Psychosis
Somatization and Related Disorders
Alcohol And Drug Addiction
Dissociative Disorders
Death and Grief / Mourning
Personality Disorders
Eating and Sleep Disorders
Psychiatric Aspects of Chronic Diseases- Psychosomatic Medicine

RADIOLOGY

Nervous Systems Radiology

RHEUMATOLOGY

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Behçet's Disease and Familial Mediterranean Fever (Rhomathol)
What is Arthritis? Classification of Rheumatic Diseases , Synovial Analysis
Rheumatoid Arthritis and Ankylosing Spondylitis / Other Spondyloarthropathies
Connective Tissue Diseases / Vasculitis
Crystal Arthropathies

COMMITTEE 7

EPIDEMIOLOGY

Introduction To Epidemiology
Causality Concept In Epidemiology and its measures
Descriptive And Cross Sectional Researches
Case-Control And Cohort Studies-measures for risk
Experimental studies- Controlled Clinical Trial
Introduction To Biostatistics
Descriptive Statistics
Sampling and sampling techniques
Measures of occurrence, reliability measures for diagnostic tests- ROC analysis
Inference – Estimation- Point and Confidence intervals
Hypothesis testing for single population
Hypothesis testing for two populations
Hypothesis testing for more than two (dependent or independent) populations-Analysis of variance
Regression and correlation-Test of association
Tests of independence for the categorical variables
Measures for agreement and tests of agreement among tests , among clinicians
Data for survival and analysis of survival data
Systematic review and meta-analysis
Approaches to reaching and searching best evidence available for diagnosis, treatment, prognosis and harm
General Discussion (Epidemiology and Biostatistics)

FORENSIC MEDICINE

Introduction to Forensic Medicine and Forensic Science 1
Introduction to Forensic Medicine and Forensic Science 2
Legal Liabilities and Forensic Duties of Physicians
Definition and Examination Of Forensic Case and Death Definition
General Discussion (Forensic Medicine)

MEDICAL ETHICS

Medical Ethics , Its Meaning, Ethical Rules and Problems
Principles of Medical Ethics
Patient and Physician Rights
Responsibility of Physician
Relations of Patient-Physician
Quackery in Medicine
Consultation and Ethical Problems
Privacy in Medicine
Organ and Tissue Transplantations and Ethical Problems
Genetics and Ethical Problems
Physician Reports and Ethical Problems
Euthanasia and Ethical Problems
Organ and Tissue Transplantations and Ethical Problems
General Discussion

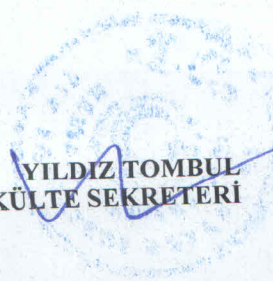
PUBLIC HEALTH

Public Health Concept
Primary Health Care
Health Services in Turkey
Financing Health Services
Human Resources For Health
Population And Health
Major Health Problems in Turkey
Control Of Non-Communicable Diseases 1
Control Of Non-Communicable Diseases 2
Control Of Non-Communicable Diseases 3
Control Of Non-Communicable Diseases 4
Tobacco And Health
Elderlies And Disabled People
Community Mental Health
Health Services In Specific Institutions (Schools, Prisons)
International Health

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Disaster Medicine
Specific Topics In Epidemiology And Screenings
Controlling Communicable Diseases And Immunization 1
Controlling Communicable Diseases And Immunization 2
Controlling Communicable Diseases And Immunization 3
Vectorborne Diseases And Malaria Control
Tuberculosis Control
Newborn screenings
Determinants of Health
Reproductive Health 1
Reproductive Health 2
Children and Adolescents as a Public Health Concern
Principles Of Occupational Health
Risk Factors For Occupational Health 1
Risk Factors For Occupational Health 2
Risk Factors For Occupational Health 3
Occupational Diseases and Occupational Accidents 1
Occupational Diseases and Occupational Accidents 2
Environmental Health
Waste Control
Health Promotion And Health Education
Environmental Pollution 1
Environmental Pollution 2
Social Determinants of Health
General Discussion (Public Health)


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