

GAZI UNIVERSITY FACULTY OF MEDICINE

2020-2021 EDUCATIONAL YEAR

DISTANCE (ON-LINE) EDUCATION THEORETICAL COURSES FOR YEAR II

CELL- TISSUE INJURY AND BASICS OF THE PHARMACOLOGY COMMITTEE
(January 07- January 22, 2021)

COURSES	THEORETICAL
Medical Pathology	18
Medical Pharmacology	36
Immunology	20
Nuclear Medicine	4
Radiology	3
Medical Biochemistry	2
TOTAL	83

22.01.2021	Friday	Mid Term Exam
------------	--------	---------------

Dean	Prof.Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator	Assoc. Prof. Dr.Özlem COŞKUN
Year II Coordinator	Assoc. Prof. Dr.Gökçe S. ÖZTÜRK FİNCAN
Assistant Year II Coordinator	Assist. Prof. Dr. Zeynep YIĞMAN (ENG)
Assistant Year II Coordinator	Teach. Assist. Dr. Süheyla Esra ÖZKOÇER
Assistant Year II Coordinator	Teach. Assist. Dr. Pelin TÜRKKAN
Assistant Year II Coordinator	Teach. Assist. Dr. Ece ALİM

MEMBERS OF COMMITTEE

MEDICAL PATHOLOGY	MEDICAL PHARMACOLOGY	IMMUNOLOGY	NUCLEAR MEDICINE	RADIOLOGY	MEDICAL BIOCHEMISTRY
Dr. Aylar POYRAZ	Dr. Çimen KARASU	Dr. Vedat BULUT	Dr. Neşe KARABACAK	Dr. Erhan ILGIT	Dr. Cengiz KARAKAYA
Dr. Özgür EKİNCİ	Dr. Canan ULUOĞLU	Dr. Cemalettin AYBAY	Dr. Ümit Özgür AKDEMİR	Dr. Cem YÜCEL	
Dr. Güldal ESENDAĞLI	Dr. H. Zafer GÜNEY	Dr. Ümit BAĞRIAÇIK			
Dr. Pınar UYAR GÖÇÜN	Dr. Ergin DİLEKÖZ	Dr. Resul KARAKUŞ			

Evidence Based Medicine Coordinator	Prof. Dr. M. Ali ERGÜN
Elective Course Coordinator	Assoc. Prof. Dr.Ergin DİLEKÖZ

CELL AND TISSUE DAMAGE AND THE BASICS OF PHARMACOLOGY COMMITTEE

Objective

To help explain cell and tissue damage stages and pathogenetic mechanisms, types of inflammation, (hemodynamic) disturbances in blood flow or fluid balance in the pathogenesis of many diseases leading to death and pathogenesis of diseases related to the immune system.

To describe the working order of the immune system in pathological events, pharmacokinetics and pharmacodynamics of drugs, factors affecting drug effect, drug adverse effects and intoxications, herbal drugs, drugs acting on the immune system, trace elements and vitamins, pharmacogenetics, new drug development and otakoids, radioactivity, biological effects of radiation, measurement of radiation, imaging with radiopharmaceuticals. To learn oxidant stress and leukocyte biochemistry. To describe systemic and autoimmune vasculitis

LEARNING OBJECTIVES

Knowledge

LO-200-5-1 Should be able to explain the pathological mechanisms and consequences of cell and tissue damage

LO-200-5-2 Should be able to define types of inflammation, developmental patterns and morphological patterns

LO-200-5-3 Should be able to explain the mechanisms of immune diseases

LO-200-5-4 Should be able to describe the role of immune cells and their role in immune defense

LO-200-5-5 Should be able to define general concepts of pharmacology

LO-200-5-6 Should be able to explain the concepts related to drug pharmacokinetics and pharmacodynamics

LO-200-5-7 Should be able to explain how metabolism and effects of drugs change between individuals / ethnic groups due to genetic differences, explain the steps of new drug development process and explain their mechanisms

LO-200-5-8 Should be able to define autocoids.

LO-200-5-9 Should be able to explain radioactivity, types of radiation used in medicine and basic concepts related to the subject

LO-200-5-10 Should be able to comprehend the interaction of radiation with biological systems and radiation protection principles

LO-200-5-11 Should be able to describe radiopharmaceuticals and their mechanisms of involvement

LO-200-5-12 Should be able to define the mechanisms of leukocyte biochemistry and oxidative stress

LO-200-5-13 Should be able to explain the laboratory tests used in rheumatologic diseases and their follow-up

LO-200-5-14 Should be able to explain the mechanism of autoimmune diseases and vasculitis, how to diagnose, follow and treat

Skill

LO-200-5-15 Should be able to define radiological methods and electromagnetic wave spectrum

LO-200-5-16 Should be able to define thrombus, coagulation necrosis and caseification necrosis by microscope

LO-200-5-17 Should be able to suture.

LO-200-5-18 Should be able to perform medical dressing.

Attitude

LO-200-5-19 To recognize the importance of immunology in medicine

LO-200-5-20 To observe the radiological methods associated with almost all disciplines of medicine and to observe different types of energy used during the application of these methods

1. Hafta		07.01.2021 THURSDAY	08.01.2021 FRIDAY
10:00-10:30		Radiation dosimetry – biological effects of radiation and principles of protection Dr. KARABACAK	Ionizing radiation and X-rays Dr. ILGIT
10:30-11:00		Radiation detection – principles of detection and instrumentation Dr. AKDEMİR	Characteristics of X-rays and their diagnostic use in medicine Dr. ILGIT
11:00-11:30		Leukocyte migration and inflammation Dr. KARAKUŞ	Drug absorption and bioavailability Dr. ULUOĞLU
11:30-12:00		Other receptors in immune response Dr. BAĞRIÇIK	Drug absorption and bioavailability Dr. ULUOĞLU
14:00-14:30		Pharmacology and general principles of drug action Dr. KARASU	Drug distribution Dr. ULUOĞLU
14:30-15:00		Pharmacology and general principles of drug action Dr. KARASU	Drug biotransformation Dr. ULUOĞLU
15:00-15:30		Free radical metabolism and related diseases Dr.KARAKAYA	EBM
15:30-16:00		Free radical metabolism and related diseases Dr.KARAKAYA	EBM

2. Hafta	11.01.2021 MONDAY	12.01.2021 TUESDAY	13.01.2021 WEDNESDAY	14.01.2021 THURSDAY	15.01.2021 FRIDAY
10:00-10:30	Other receptors in immune response Dr. BAĞRIAÇIK	Intracellular accumulations Dr. POYRAZ	Drug-receptor interaction and mechanisms of action Dr. KARASU	Histamine, Serotonin ,Ergot Alkaloids Dr. GÜNEY	Concentration-response relationship Dr. ULUOĞLU
10:30-11:00	Other receptors in immune response Dr. BAĞRIAÇIK	Cellular adaptations Dr. POYRAZ	Drug-receptor interaction and mechanisms of action Dr. KARASU	Histamine, Serotonin ,Ergot Alkaloids Dr. GÜNEY	Drug discovery and development Dr. ULUOĞLU
11:00-11:30	Drug administration routes and properties of pharmaceutical forms Dr. KARASU	Drug biotransformation Dr. ULUOĞLU	Type II Hypersensitivity Dr. BULUT	Factors modifying drug effect Dr. KARASU	Chronic inflammation Dr. EKİNCİ
11:30-12:00	Drug-receptor interaction and mechanisms of action Dr. KARASU	Drug elimination Dr. ULUOĞLU	Type III Hypersensitivity Dr. BULUT	Factors modifying drug effect Dr. KARASU	Inflammation and repair Dr. EKİNCİ
14:00-14:30	Cell injury and its causes Dr. POYRAZ	Immunological tolerance Dr. BAĞRIAÇIK	Description of inflammation and pathogenesis Dr. EKİNCİ	Type IV Hypersensitivity Dr. BULUT	Autoimmunity Dr. BULUT
14:30-15:00	Necrosis, apoptosis Dr. POYRAZ	Immunological tolerance Dr. BAĞRIAÇIK	Inflammation subtypes Dr. EKİNCİ	Autoimmunity Dr. BULUT	Autoimmunity Dr. BULUT
15:00-15:30	Radionuclides, radioactive labelled pharmaceuticals and principles of imaging Dr AKDEMİR	Immunopathological mechanisms in tissue damage Dr. BULUT	Time-concentration relationship Dr. ULUOĞLU	Acute inflammation Dr. EKİNCİ	The Eicosanoids: Prostaglandins, Thromboxanes, Leukotrienes, Related Compounds Dr. GÜNEY
15:30-16:00	Radioactivity-atomic structure, radiation and interaction of radiation with matter Dr. AKDEMİR	Type I Hypersensitivity Dr. BULUT	Concentration-response relationship Dr. ULUOĞLU	Acute inflammation Dr. EKİNCİ	The Eicosanoids: Prostaglandins, Thromboxanes, Leukotrienes, Related Compounds Dr. GÜNEY

3. Hafta	18.01.2021 MONDAY	19.01.2021 TUESDAY	20.01.2021 WEDNESDAY	21.01.2021 THURSDAY	22.01.2021 FRIDAY
10:00-10:30	Immune diseases: Introduction Dr. ESENDAĞLI	Vasoactive Peptides Dr. GÜNEY	Redox regulators, antioxidants and vitamins Dr. KARASU	Hemodynamic disorders Dr. UYAR GÖÇÜN	MID TERM EXAM
10:30-11:00	Pathology of immune diseases Dr. ESENDAĞLI	Pharmacovigilans Dr. GÜNEY	Redox regulators, antioxidants and vitamins Dr. KARASU	Hemodynamic disorders Dr. UYAR GÖÇÜN	
11:00-11:30	Vasoactive Peptides Dr. GÜNEY	Immunomodulators Dr. GÜNEY	Heavy metal toxicity Dr. DİLEKÖZ	Pharmaceutics, Nutraceutics and phytotherapeutics Dr. KARASU	
11:30-12:00	Vasoactive Peptides Dr. GÜNEY		Principles in treatment of acute toxicity Dr. DİLEKÖZ	Pharmaceutics, Nutraceutics and phytotherapeutics Dr. KARASU	
14:00-14:30	Nitric oxide Dr. ULUOĞLU	Pathology of immune diseases Dr. ESENDAĞLI	Pathology of immune diseases Dr. ESENDAĞLI	Immunomodulators Dr. BULUT	
14:30-15:00	Drug Toxicity Dr. DİLEKÖZ	Pathology of immune diseases Dr. ESENDAĞLI	Amyloidosis Dr. UYAR GÖÇÜN	Immunomodulators Dr. BULUT	
15:00-15:30	Transplantation immunology Dr. BULUT	Immunological techniques Dr. KARAKUŞ	Imaging modalities and the properties of energies other than X-rays Dr. YÜCEL	FREE STUDY TIME	
15:30-16:00	Transplantation immunology Dr. BULUT	Immunological techniques Dr. KARAKUŞ			