**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2021-2022 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. Medical Skills: How to use stethoscope properly, Auscultation (Dr. Güney)
2. Practice: Basic life support (Dr. İşcanlı)

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 301** | 27.09.2021 | 04.11.2021 |
| **MED 302** | 07.02.2022 | 11.03.2022 |
| **MED 303** | 08.11.2021 | 15.12.2021 |
| **MED 304** | 14.03.2022 | 21.04.2022 |
| **MED 305** | 20.12.2021 | 14.01.2022 |
| **MED 306** | 25.04.2022 | 01.06.2022 |

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| **COMMITTEE NAME** |
|  | **MED 301** | **MED 302** | **MED 303** | **MED 304** | **MED 305** | **MED 306** |
| **MEDICAL SKILLS EXAM DATE** |  |  |  |  |  | 31.05.2022 |
| **COMMITTEE EXAM DATE** |  |  |  |  |  | 01.06.2022 |

**MED306 INTRODUCTION TO CLINICAL MEDICINE**

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| **PHASE III COORDINATOR** | Prof. Dr. Gamze YURDAKAN |
| **PHASE III VICE COORDINATOR** | Asst. Prof. Dr. Esin BODUROĞLU |
| **CHAIRMAN OF THE MED 304 COMMITTEE** | Asst. Prof. Dr. Esin BODUROĞLU |
| **MED 304 COMMITTEE DATE RANGE** | 25.04.2022 – 01.06.2022 |
| **ACADEMIC STAFF** **AT THE MED 304 COMMITTEE** | Prof. Dr. Necla TÜLEK- Medical MicrobiologyProf. Dr. Nedret KILIÇ- Medical BiochemistryProf. Dr. Ali ACAR- Medical MicrobiologyProf. Dr. Yekbun ADIGÜZEL- Medical BiologyProf. Dr. Ahmet SALTIK- Public HealthProf. Dr. Selda Dilek TEKİNER- Family MedicineProf. Dr. Gürol CANTÜRK-Forensic MedicineProf. Dr. Halil Ertuğrul KÖROĞLU- PsychiatryAssoc. Prof. Dr. Fatih KARAAHMET- Internal MedicineAsst. Prof. Dr. Esin BODUROĞLU- PathologyAsst. Prof. Dr. M. F. Tolga SOYAL- Cardiovascular SurgeryAsst. Prof. Dr. Gökşen ÖZ- Medical PharmacologyAsst. Prof. Dr. Ali Doğan DURSUN- PhysiologyAsst. Prof. Dr. Merter GÜLEN- General SurgeryAsst. Prof. Dr. Arif Tolga SÖNMEZ- NeurologyAsst. Prof. Dr. Murat Doğan İŞCANLI- Emergency MedicineAsst. Prof. Dr. Cemal YÜCE- RadiologyAsst. Prof. Dr. Murat Can GÜNEY- CardiologyAsst. Prof. Dr. Umut BEKTAŞ- Orthopaedics and Traumatology Asst. Prof. Dr. Mehmet Derviş GÜNER- Orthopaedics and Traumatology Asst. Prof. Dr. Gülcan ERK- Anesthesiology and Reanimation |
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**ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION****TIME** | **TOTAL TIME** |
| **Medical Microbiology** | 9 | - | - | 9 |
| **Medical Biochemistry** | 2 | - | - | 2 |
| **Medical Biology** | 2 | - | - | 2 |
| **Medical Pharmacology** | 5 | - | - | 5 |
| **Public Health** | 3 | - | - | 3 |
| **Neurology** | 2 | - | - | 2 |
| **Physiology** | 1 | - | - | 1 |
| **Family Medicine** | 4 | - | - | 4 |
| **Psychiatry** | 3 | - | - | 3 |
| **Forensic Medicine** | 2 | - | - | 2 |
| **Internal Medicine** | 2 | - | CBL (2 hours) | 4 |
| **Cardiovascular Surgery** | 2 | - | - | 2 |
| **Cardiology** | - | - | Medical Skills (4 hours) | 4 |
| **General Surgery** | 1 | - | - | 1 |
| **Emergency Medicine** | 5 | 4 | - | 9 |
| **Radiology** | 2 | - | - | 2 |
| **Orthopaedics and Traumatology** | 1 | - | - | 1 |
| **Anesthesiology and Reanimation** | 1 | - | - | 1 |
| **Visit to First Level Health Care Center** | - | - | 24 | 24 |
| **TOTAL** | 47 | 4 | 30 | 81 |

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| **Advisor Visit** | - |

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| **CONTENT OF THE MED 306 COMMITTEE**  |
| Organization of Health Services in Turkey; Patient admission; Approval of informed consent; State of consciousness; Evolution of Practices of Family physician in Turkey; Pharmacovigilance; Antibiotic use: Beta-lactams; History taking physical examination; Medical Skills (Auscultation, stethoscope); Use of microbiology laboratory & interpretation of results; Biochemistry laboratory & interpretation of results; Antibiotic use: Aminoglycosides, tetracyclines; Antibiotic use: Macrolides, quinolones; Types of radiation; Breaking bad news; Physician's well-being; Stress management; Rational Laboratory Work-up; Transfusion medicine & blood banking; Antibiotic use: Others; Airway management; General management of burns; Management of trauma; Consultation in medicine (CBL); Drug use in pediatrics; Evidence based medicine -1: Meaning and Conceptual Framework; Causality in Medicine: Meaning and Critical Function; General management of poisoned patient; Malpractice; Anaphylaxis; Choosing right imaging technique; Case scenarios in radiology; Basic life support; Practice: Basic life support |
| **MED 306 COMMITTEE AIM** |
| To give information about; the structure and organization of Turkish Health system, how the primary health care functions, how patients are admitted & examined generally, what are the ancillary laboratory facilities used in medicine, usage of antibiotics in medicine, how the physicians act and care for themselves, management of critical patients, basic life support. To provide basic medical skills necessary for a primary care physician in practice |
| **MED 306 COMMITTEE LEARNING OBJECTIVES** |
| 1. Selection of the appropriate specimen, transporting and the tests according to the risks
2. Interpretation of culture and sensitivity data on: throat, sputum, urine, blood, stool, wound and others cultures.
3. Interpretation of serology studies: viral diseases (HIV, hepatitis, EBV, CMV, others), syphilis, Lyme disease, etc.
4. Interpretation of rapid tests.
5. Describe the key components of appropriate antimicrobial prescribing
6. Differentiate between prophylactic, empirical and directed therapy
7. Outline the major adverse effects of antimicrobial therapy
8. Distinguish bacteriostatic from bactericidal antibacterial activities
9. Explain the difference between broad-spectrum drugs versus narrow-spectrum antibiotics
10. Implement a systematic approach to using current antimicrobial guidelines for prescribing: Where is the evidence to support antibiotic prescribing or alternative strategies? Which antibiotic should be prescribed? What is the most prudent first line choice? What dose, by what route and for how long?
11. Distinguishes the adverse effects of (ionizing) radiation and protection methods
12. Define and differ states of conciousness which is necessary for understanding the cognitive disorders
13. Ability to use educative material about nutrition while giving advice in schools
14. Complete the nutrition education in time
15. Report the nutrition education process
16. Learn short version of medical legislation
17. List the medical legislation hierarchy
18. List the Environmental Health Controls measures and related sanctions
19. Learn how to to write an official report and a petition
20. Observe pregnancy follow-up, list warning signs in pregnancy
21. Observe vaccination in the health centers
22. Explain the places of each vaccine in the refrigerator
23. List screening programs of Ministry of Health in Türkiye
24. Observe breast examination and obtaining PAP smear as a screening procedure
25. Describe Fagerström scale
26. Define procedure and importance of CO measurement
27. Explain the aim and services provided by SHM
28. Describe organization of health services in Turkey
29. Describe patient admission to a hospital, clinic etc.
30. Explain types and importance of informed consent in medicine
31. Describe evolution, importance and system of family physician practices in Türkiye
32. Gain the ability to obtain an accurate medical history and carefully perform a physical examination
33. Outline basics of patient history taking, documentation important aspects in the history
34. Define steps, algorithm and documentation of physical examination in general
35. Observe & describe how to use a stethoscope properly
36. Explains how to identify and verify patient identity.
37. Describes variables in specimen collection.
38. Explains the preparation and processing affecting the clinical interpretation of a test result.
39. Defines the procedure of application and interpretation of manual tests carried out in a medical biochemistry laboratory.
40. Assesses the laboratory indicators of diseases.
41. Compares and contrasts reference ranges and therapeutic ranges.
42. Describes biochemical tools needed to accomplish diagnostic intervention on various disorders.
43. Describes the laboratory environment conditions that should be.
44. Lists the waste management procedure in clinical biochemistry laboratories.
45. Defines the terms ‘‘test sensitivity and specificity’’ and ‘‘test precision and accuracy’’ and describes their impact on selection of test and interpretation of results.
46. Explain how to give bad news about their health to the patient in medicine
47. Describe how the physician can keep his/her well-being and manage the stress during practice
48. Explain the concept of rational laboratory work-up process itself and the importance of wise source management
49. Outline the basic functions of blood banking
50. Explain the importance of management of blood as a therapeutic product
51. Outline general rules in airway management
52. Explain general rules in burn patient care
53. Describe methods to assess the severity of burn in patients
54. Describe the importance of consultation in medicine
55. Manage patients with multidisciplinary perspective
56. Explain the meaning, conceptual framework, ethical & legal Dimensions in evidence based medicine
57. Describe meaning and critical function of causality in medicine
58. Define malpractice in medicine
59. Explain how to prevent malpractice and cope with malpractice claims
60. Define anaphylaxis and measures taken in treatment
61. Outline how to choose the correct imaging technique according to the patient
62. Define and demonstrate basic life support steps, algorithm of the process
63. Define the concept of “pharmacovigilance” according to WHO
64. Explain the scope of pharmacovigilance
65. Define the role of healthcare professionals in pharmacovigilance
66. Define physiologic processes that influence pharmacokinetic variables in the infant that change significantly in the first year of life.
67. Define pediatric dosage forms and adherence
68. Explain the determinants of pediatric dosage calculations
69. Describe the steps involved in the supportive care of the poisoned patient.
70. Identify toxic syndromes associated with overdose of the major drugs or drug groups frequently involved in poisoning.
71. Outline methods for identifying toxic compounds, including descriptive signs and symptoms and laboratory methods.
72. Describe the methods available for decontamination of poisoned patients and for increasing the elimination of toxic compounds.
73. List the antidotes available for management of the poisoned patient
 |
| **RECOMMENDED LITERATURE**1. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, 2019, McGraw-Hill Education
2. Murray. Rosenthal, . Pfaller, Medical Microbiology 9th Edition,2021
3. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases Edition, Bennett, JE, Dolin R, Blaser MJ. , 9th Elsevier, 2019
4. Dr. Mehmet Can Akyolcu, 2015, Biophysics, İstanbul Üniversitesi Cerrahpaşa Tıp Fakültesi (Yayın no 295, Rektörlük yayın no 5215, ISBN 978-605-07-0588-1).
5. Perrotta G (2021) The state of consciousness: From perceptual alterations to dissociative forms. Analysis of neurobiological and clinical profiles. J Neurol Neurol Sci Disord 7(1): 006-018. DOI: <https://dx.doi.org/10.17352/jnnsd.000042>
6. Katzung, B.G., Vanderah T,W., Basic &Clinical Pharmacology,15th Ed., 2021, McGrawHill Lange, New York
7. Katzung, B.G., Vanderah T,W., Basic &Clinical Pharmacology,14th Ed., 2018, McGrawHill Lange, New York
8. Katzung, B.G., Kruidering-Hall,, M., Trevor, A.J., Katzung & Trevor’s Pharmacology Examination & Board Review, 12th Ed, 2019, New York
9. Whalen K., Lippincottt Illustrated Reviews Pharmacology, 7th Ed., 2019, Wolters Kluwer, Philadelphia
10. Brunton L.L., Goodman & Gilmans’s The Pharmacological Basis of Therapeutics, 13th Ed, 2018, McGrawHill, NewYork
11. <https://www.who.int/teams/regulation-prequalification/regulation-and-safety/pharmacovigilance>
12. Bates' Guide to Physical Examination and History Taking Twelfth ed, 2020
13. Textbook of Family Practice, 9th Edition Robert E. Rakel, David P. Rakel, 2015
14. Turkish Republic Health Ministry, General Directorate of Public health official web page <https://hsgm.saglik.gov.tr/tr/>
15. Lehninger Principles of Biochemistry, 7th Edition David L. Nelson, Michael M. Cox W H Freeman & Co, 2016.
16. Textbook of Biochemistry with Clinical Correlations, 7th Edition Thomas M. Devlin (Editor) John Wiley & Son, 2011.
17. Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7th Edition Carl A. Burtis, David E. Bruns Elsevier Health Sciences, 2014.
18. Textbook of Biochemistry for Medical Students, 7th Edition, DM Vasudevan, Sreekumari S, Kannan Vaidyanathan, 2013, Jaypee Brothers Medical Publishers.
19. Harrison's principles of internal medicine, 21ST Edition
20. Adams, James G. Emergency Medicine, Clinical Essentials, second edition, 2013
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| **MED 306 COMMITTEE EXAM WEEK** |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 31.05.2022 | Medical Skills | 09:30-17:20 |
| 01.06.2022 | MED 306 Committee Exam | 09:30-12:20 |
| **Teaching Methods and Techniques** |

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| [x]  Lecture |  [x]  Case based learning | [ ]  Case discussion | [ ]  Student presentation |
| [ ]  Role playing |  [ ]  Problem based learning | [ ]  Project | [ ]  Homework |
| [ ]  Laboratory practice |  [ ]  Team based learning | [x]  Self Learning | [ ]  Student Panel |

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| **Evaluation Method** | Theoretical Exam (65%), Student Evaluation Form (20%), Communication Skills (Report: 10%), Medical Skills Laboratory (5%) |
| **Lesson Language** | English |