**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2024-2025 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. Histology of Tonsilla palatina and Lymph Node & Histology of the Spleen and Thymus (1 hour, Dr. Aykanat)
2. Inflammation (1 hour, Dr. Yurdakan Özyardımcı)
3. Clinical Skill: Physical examination of lymph node (1 hour, Dr. Öktem, Dr. Brohi)
4. Nonneoplastic proliferations of white cells (Dr. Yurdakan Özyardımcı)
5. Medical Skills: Fever Measurement (1 hour, Dr. Usluca, Dr. Arslan)

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 201** | 18.09.2024 | 01.11.2024 |

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|  | **MED 201** | **MED 202** | **MED 203** | **MED 204** |
| **MEDICAL SKILL EXAM DATE** | 24.10.2024 |  |  |  |
| **CLINICAL SKILL EXAM DATE** | 01.11.2024 |  |  |  |
| **COMMITTEE EXAM DATE** | 31.10.2024 |  |  |  |

**MED 201 COMMITTEE**

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| **PHASE II COORDINATOR** | Asst. Prof. Dr. Badegül Sarıkaya |
| **CHAIR OF THE MED 201 COMMITTEE** | Assoc. Prof. Dr. Selma Usluca |
| **MED 201 COMMITTEE DATE RANGE** | 18.09.2024 – 01.11.2024 |
| **ACADEMIC STAFF AT THE MED 201 COMMITTEE** | Prof. Dr. Gamze YURDAKAN ÖZYARDIMCI – PathologyProf. Dr.Yekbun Adıgüzel-Medical BiologyProf. Dr. Ahmet Saltık -Public Health Prof. Dr. Nedret KILIÇ – Medical BiochemistryProf. Dr. Necla TÜLEK – Medical Microbiology & ImmunologyAssoc. Prof. Dr. Selma Usluca– Medical Microbiology & ImmunologyAssoc. Prof. Dr. Çiğdem Erol- Infectious Disease and Clinical MicrobiologyAsst. Prof. Dr Aykut İlker Arslan– Medical Microbiology & ImmunologyAssoc. Prof. Dr. Hale ÖKTEM – AnatomyAsst. Prof. Dr. Recep Ali Brohi- AnatomyAssoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT- Histology and EmbryologyAsst. Prof. Dr. Sami Eren- PharmacologyAssoc. Prof.Dr. Ali Doğan Dursun-PhysiologyAsst. Prof. Dr. Badegül Sarıkaya-Physiology |
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**ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION****TIME** | **TOTAL TIME** |
| **Anatomy** | 2 | 1 (Clinical Skill) | - | 3 |
| **Histology and Embryology** | 7 | 1 | - | 8 |
| **Microbiology-Immunology** | 28 | 1 (Medical Skill) | 1 (Quiz) | 30 |
| **Medical Pharmacology** | 11 | - | - | 11 |
| **Medical Biochemistry** | 2 | - | - | 2 |
| **Medical Pathology** | 15 | 2 | - | 17 |
| **Physiology** | 4 | - | - | 4 |
| **Medical Biology** | 2 | - | - | 2 |
|  **Public Health** | 1 |  |  | 1 |
| **Infectious Disease and Clinical Microbiology** | 10 |  |  | 10 |
| **PBL** |  |  | 6 | 6 |
| **TOTAL** | 82 | 5 | 7 | 94 |
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| **Office Hour** | - |

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| **CONTENT OF THE MED 201 COMMITTEE**  |
| Introduction to anatomy, development of the cells and organs of immune system, general features and functions of immune cells, innate and acquired immune response, immune response against microorganisms, hypersensitivity, autoimmunity, immunodeficiency, immune modulation, autacoids, antibiotic use, and resistance mechanisms, fluid and hemodynamic disorders, introduction to inflammation and acute inflammation, chronic inflammation and clinical aspect of inflammation, tissue repair mechanisms, cancer etiology and basic mechanisms of cancer development, nonneoplastic disorders of WBC, disorders of thymus and spleen, the spectrum of the inflammatory response to infections, autoimmune disorders, rejection of the tissue transplants |
| **MED 201 COMMITTEE AIM** |
| To overview the definition and elements of the immune system, the development, structure and functions of the immune system elements, disorders related to this system, and immunotherapeutic. Also, to gain basic medical skills for evaluation of immune system. To give information about human flora, fever mechanism. |
| **MED 201 COMMITTEE LEARNING OBJECTIVES** |
| 1. Explains the medical importance of Immune Systems
2. Lists the elements of immune system
3. Describe the essential characteristics of humoral and cell-mediated immunity
4. Explain the embryological development and histological features of tonsilla palatin.
5. Describes the embryological development and histological features of the lymph node.
6. Explain embryological development and histological features of the thymus and spleen.
7. Explains the histological features and functions of the cells of the immune system.
8. Explains anatomy and functions of lymphoid tissues
9. Explains the leukocyte circulation and migration
10. Describes the innate immunity; components and functions
11. Defines the complement system
12. Describes the acute and chronic inflammation and mechanisms involved.
13. Defines antigens and antibodies
14. Describe the theory of clonal selection
15. Explains the recognition of microorganisms by the immune system
16. Explains the stimulation of adaptive immunity
17. Describe the cells involved in the adaptive immune response-T cells, B cells and antigen presenting cells
18. Explain pathogenesis of the non-neoplastic disorders of the leukocytes
19. Describe non-neoplastic diseases of lymph nodes and explain the spleen & thymus disorders
20. Explains B cell activation and antibody production
21. Describes the antibody structure and functions
22. Explains the antigen presentations of T lymphocyte
23. Describes the role of MHC in the immune responses
24. Defines Immune receptors and signal transduction
25. Explains the activation of T lymphocytes
26. Explain the difference between self and non-self
27. Explains the Immunologic tolerance and autoimmunity.
28. Describes the role of immunogenetics, infections, tissue injury, and other environmental factors in autoimmunity
29. Explains the immune response against microorganisms
30. Describe in overall terms what the host defence is, why we need is, what it does and how it does it
31. Explains the mechanisms of hypersensitivity disorders and give two examples for each
32. Discuss the immunologic basis of graft rejection
33. Describes the primary and secondary immunodeficiencies
34. Lists the immunomodulatory agents and primary indications for them.
35. Describe a range of tests used in evaluation of immune system and immune response.
36. Describe fluid and hemodynamic disorders
37. Define inflammation, clinical aspects of the inflammation and tissue repair mechanism
38. Explains the nomenclature of the neoplasms, properties of the benign and malignant tumors
39. Defines the spectrum of the inflammatory response to infections
40. Explains thymus and spleen disorders
41. Describe the autacoids and related drugs
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| **RECOMMENDED BOOKS**1. Katzung's Basic and Clinical Pharmacology (Ed. Todd W. Vanderah),16th Edition, McGraw Hill Lange, 2023.
2. Goodman and Gilman's The Pharmacological Basis of Therapeutics (Eds: L. Brunton,‎ B. Knollmann, R. Hilal-Dandan), 14th Edition, McGraw Hill, 2022.
3. Braddom's Physical Medicine and Rehabilitation (5th Edition); David X. Cifu MD; Elsevier, Philadelphia, 2016.
4. Gray’s Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingston Elsevier, Philadelphia, 2015.
5. Guyton and Hall Textbook of Medical Physiology (13th Edition); John E. Hall; Elsevier, Philadelphia, 2016.
6. Histology and Cell Biology: An Introduction to Pathology (4th Edition); Abraham L. Kierszenbaum, Laura L. Tres; Elsevier Saunders, Philadelphia, 2015.
7. Medical Microbiology 9th Edition. Murray, Rosenthal, Pfaller, Elsevier Saunders, Philadelphia,2020
8. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, 2019, McGraw-Hill Education
9. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 9th Edition, Bennett, JE, Dolin R, Blaser MJ. Elsevier, 2019
10. Robbins Basic Pathology (10th Edition); Vinay Kumar, Abul K. Abbas, Jon C. Aster; Elsevier Saunders, Philadelphia, 2018.
11. Basic Immunology: Functions and Disorders of the Immune System, 6e, Abbas, Lichmann, Pillai, Elsevier, 2019.
12. Review of Medical Microbiology and Immunology, 17th Edition by Warren Levinson, Peter Chin-Hong, Elizabeth Joyce, Jesse Nussbaum, Brian Schwartz. 2022.
13. Murray, Rosenthal, Pfaller. Medical Microbiology (9th Edition); 2020.
14. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, 2019, McGraw-Hill Education.
15. Sherris &Ryan’s Medical Microbiology, Kenneth J. Ryan, 9th Edition, McGraw Hill / Medical, 2022.
16. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 9th Edition, Bennett, JE, Dolin R, Blaser MJ. Elsevier, 2020.
17. Understanding Pathophysiology First canadian Ed. 2018 by Elsevier Inc. Sue Huether; Kelly PowerKean; Mohamed ElHussein.
18. Pathophysiology of Diseases: An introduction in clinical medicine 8 ed. 2019 by McGraw-Hill Education; Lange Inc. Gary D. Hammer, MD, PhD Stephen J. McPhee, MD.
19. Pathophysiology: The biologic basis for diseases in adults and children 8th ed. 2019 by Elsevier Inc. Kathryn L. McCance, MS, PhD Sue E. Huether, MS, PhD Valentına L. Brashers, Neal S. Rote, PhD.
20. Rapid Review Pathology, Fifth Edition 2019 by Elsevier, Inc. Edward F. Goljan, MD.
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| **MED 201 COMMITTEE EXAM WEEK** |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 24.10.2024 | Medical Skill Exam | 09:30-16:20 |
| 01.11.2024 | Clinical Skill Exam | 13:30-14:20 |
| 31.10.2024 | MED 201 Committee Exam | 13:30-16:20 |
| **Teaching Methods and Techniques** |

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| [x]  Lecture | [ ]  Case based learning | [ ]  Case discussion | [ ]  Student presentation |
| [x]  Discussion | [x]  Problem based learning | [ ]  Project | [ ]  Homework |
| [ ]  Role playing | [ ]  Lab report  | [x]  Self Learning | [x]  Laboratory practice |
| [ ]  Online education | [x]  Clinical skill | [ ]  Team based learning | [ ]  Flipped Class |
| [x]  Quiz |  |  |  |

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| **Evaluation Method** | Theoretical Exam (84%), Clinical Skills (5%), Medical Skills (5%), PBL(5%), Microbiology-ımmunology quiz(1%) |
| **Lesson Language** | English |