**T.C.**

**ATILIM UNIVERSITY MEDICINE FACULTY**

**EDUCATION IN 2020-2021 ACADEMIC YEAR**

**SPRING SEMESTER ACADEMIC CALENDAR**

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 202** | **22.02.2021** |  |
| **MED 204** | **03.05.2021** | **11.06.2021** |

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|  | **MED 201** | **MED 202** | **MED 203** | **MED 204** |
| **ANATOMY PRACTICAL EXAM DATE** | - |  |  | 10.06.2021 |
| **HISTOLOGY AND EMBRYOLOGY PRACTICAL EXAM DATE** | - |  |  | 10.06.2021 |
| **MEDICAL BIOLOGY PRACTICAL EXAM DATE** |  |  |  |  |
| **COMMITTEE EXAM DATE** |  |  |  | 11.06.2021 |

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| **PHASE II COORDINATOR** |  | Prof. Dr. Ali ACAR |
| **PHASE II COORDINATOR ASSISTANT** |  | Instructor Dr. Badegül SARIKAYA |
| **CHAIRMAN OF THE MED 204 COMMITTEE** |  | Prof. Dr. Ali ACAR |
| **MED 204 COMMITTEE DATE RANGE** |  | 03.05.2021- 11.06.2021 |
| **ACADEMIC STAFF AT THE MED 204 COMMITTEE** |  | Prof. Dr. Uğur GÖNÜLLÜ - Pulmonary DiseasesProf. Dr. Necla TÜLEK - Medical MicrobiologyProf. Dr. Ahmet SALTIK- Public HealthProf. Dr. Gamze YURDAKAN - Medical PathologyProf. Dr. Suna EMİR - PediatricsProf. Dr. Cem Hasan RAZİ - PediatricsProf. Dr. Müge TECDER - Medical PharmacologyProf. Dr. Ali ACAR - Medical MicrobiologyDoç. Dr. Hale ÖKTEM - AnatomyAsst. Prof. Dr. Ali Doğan DURSUN - PhysiologyAsst. Prof. Dr. Esin BODUROĞLU- Medical PathologyAsst. Prof. Dr. Nuriye Ezgi Berktur AYKANAT-Histology and EmbryologyAsst. Prof. Dr. Övsen ÖNAY- Ear, Nose, ThroatAsst. Prof. Dr. Cemal YÜCE – RadiologyAsst. Prof. Dr. Fatma YERLİKAYA ÖZKURT- StatisticsInstructor Dr. Badegül SARIKAYA - Physiology |
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**ACADEMIC STAFF** | **TEORIC LESSON TIME** | **PRACTICAL LESSON TIME** | **INTERACTIVE EDUCATION****TIME** | **TOTAL TIME** |
| **Anatomy** | 9 | 3 | - | 12 |
| **Histology and Embryology** | 3 | 1 | - | 4 |
| **Medical Microbiology** | 18 | 4 | 3 | 25 |
| **Medical Pharmacology** | 4 | - | - | 4 |
| **Public Health** | 6 | - | - | 6 |
| **Pathology** | 12 | 2 | - | 14 |
| **Physiology** | 12 | 2 | 3 | 17 |
| **Medical Biology** | - | 1 | - | 1 |
| **Biostatistics** | 4 | - | - | 4 |
| **Ear, Nose, Throat** | - | 3 | - | 3 |
| **Radiology** | - | 3 | - | 3 |
| **Pediatrics** | 1 | - | - | 1 |
| **Communication skills** | 6 | - | - | 6 |
| **PBL** |  | - | 4 | 4 |
| **Pulmonary Diseases** | 1 | - | 3 | 4 |
| **TOTAL** | 76 | 19 | 13 | 108 |

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| **Office Hour** | 05.05.2021 |

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| **CONTENT OF THE MED 204 COMMITTEE**  |
| Anatomy of nose and related structures; pharynx, larynx; anatomy of trachea and lungs; the anterior and lateral regions of neck; neck bridge; clinical anatomy; functional organization of respiratory system; pulmonary and alveolar ventilation; mechanism of respiration; transport and perfusion dynamics; ventilation and perfusion characteristics of lungs; regulation of respiration; respiration harmony during exercise. |
| **MED 204 COMMITTEE AIM** |
| To gain knowledge about the principles in the development of respiratory system, its function, etiopathogenesis, pathology, symptoms, diagnosis, treatment, avoiding of respiratory system related defects; the gain the basic medical skills towards to respiratory system. |
| **MED 204 COMMITTEE LEARNING OBJECTIVES** |
| 1. Describes anatomical structures of upper and lower respiratory tract. Explains its clinical importance
2. Describes the anterior and lateral aspects of the neck, knows the relations of anatomical structure in these regions, describes the triangles of the neck and explains the clinical importance of fasciae in the neck region.
3. Describes the clinical anatomy of respiratory system
4. Explains the development and embryonic origins of upper and lower respiratory system.
5. Describes the histological structure of upper and lower respiratory system.
6. Describes the congenital malformations in the development of the respiratory system.
7. Defines the structures in the respiratory system, respectively, explains their functions, and their physiological properties.
8. Explains the blood-air barrier, the properties of Type II alveolar cells.
9. Explains the inspiratory and expiratory mechanisms
10. Describes the diseases and neoplasms which cause morphological changes in respiratory tract.
11. Describes the pathogenesis of congenital abnormalities in lungs
12. Describes the pathogenesis of obstructive and restrictive lung diseases.
13. Explains the etiopathogenesis of frequent infections of lungs.
14. Explains pleural diseases and neoplasms.
15. Explains the factors regulating ventilation mechanics (elastic properties of the lung, negative pressure inside the thorax).
16. Interprets the changes in flow, resistance relations and partial gas pressures during the passage of air through the upper airways during breath exchange.
17. Describes the dynamics of the exchange of oxygen and carbon dioxide between the atmosphere and blood, blood and the cell, describes the transport of these gases and the biochemical reactions in this process.
18. Defines the circulation and blood flow dynamics, interprets the relationship with gas exchange in the lung.
19. Describes the O2 binding mechanism to myoglobin and Hemoglobin and defines allosteric interactions.
20. Explains the regulation of breathing, the role of breathing in acid-base balance and the effect of exercise on breathing.
21. Defines the centers in the brain stem that regulate respiratory activity, their functions, the structure and functions of peripheral and central chemoreceptors that carry data to these centers.
22. Understands and interprets the changes of respiratory system functions in exercise, height and underwater.
23. Applies pulmonary function tests, evaluates the results.
24. Explains the epidemiology of respiratory diseases
25. Identify factors that predispose a patient to respiratory system disorders
26. Defines rhinitis, tonsillopharyngitis, influenza, bronchitis, bronchiolitis pneumonia.
27. Lists the bacteria, viruses and fungi commonly affecting the respiratory system and identify the characteristics of each etiologic agents
28. Describe the major virulence factors and mechanisms of pathogenesis of each microorganism involved in respiratory diseases
29. Performs the nasopharyngeal swap technique.
30. Performs ARB staining.
31. Describe pathogenesis, morphologic characteristics of upper airway diseases
32. Recall pathogenesis, morphologic characteristics of lower airway diseases
33. Describe pathogenesis, morphologic characteristics of respiratory tract congenital abnormalities
34. Explain pathogenesis, morphologic characteristics of respiratory system neoplasms
35. Recall pathogenesis, morphologic characteristics of obstructive & restrictive respiratory system diseases
36. Describe pathogenesis, morphologic characteristics of pleural diseases
37. Describes etiopathogenesis, symptoms, clinical and laboratory findings of respiratory system disorders
38. Explains the community acquired pneumonia, etiological agents and risk factors.
39. Classifies the chronic obstructive pulmonary diseases, pulmonary edema, lung tumors and related diseases and interprets the symptoms and findings.
40. Describes diagnostic imaging modalities for investigation of the respiratory system and explains the indications.
41. Lists the treatment options for diseases of the respiratory system.
42. Describes the pharmacodynamic and pharmacokinetic properties of bronchodilator, antitussive and expectorant drugs used for respiratory system.
43. Explains the air pollution and relation of it to respiratory disorders
44. Expalins the vaccines used to prevent of the respiratory tract infections
45. Describes the microorganisms causing upper respiratory infections, explains the charactheristics and pathological results of them.
46. Describes the diagnosis, treatment and protection ways of upper respiratory infections.
47. Describes the microorganisms causing pneumonia and their pathological results
48. Describes the microorganisms causing pneumonia, explains the charactheristics and pathological results of them.
49. Explains the microorganisms causing laryngeal obstruction and their diagnosis.
50. Describes the microorganisms causing respiratory insufficiency.
51. Explains the relationship between the acute rheumatoid fever and infection.
52. Describes the diagnosis, treatment and protection ways of pertussis and diphtheria.
53. Describes the diagnosis, treatment and protection ways of pulmonary and pleural tuberculosis
 |
| **RECOMMENDED BOOKS**1. Basic & Clinical Pharmacology (14th Edition); Bertram G. Katzung,‎ Anthony J. Trevor; McGraw-Hill, 2018.
2. Oxford Textbook of Public Health (6th Edition); Roger Detels, Robert Beaglehole, Mary Ann Lansang, Martin Gulliford; Oxford Medical Publications, 2015.
3. Medical Microbiology (8th Edition); Patrick Murray, Ken Rosenthal, Michael Pfaller; Elsevier Saunders, Philadelphia, 2016.
4. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. John Bennett Raphael Dolin Martin J. Blaser. 9 th edition., 2019
5. Robbins Basic Pathology (10th Edition); Vinay Kumar, Abul K. Abbas, Jon C. Aster; Elsevier Saunders, Philadelphia, 2018.
6. Comparative Health Systems: A Global Perspective (2nd Edition); James A. Johnson, Carleen Stoskopf, Leiyu Shi; Jones and Bartlett Publishers, Burlington, 2018.
7. Epidemiology (5th Edition); Leon Gordis; Elsevier Saunders, Philadelphia, 2014.
8. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e,   McGraw-Hill Education, 2019
9. Medical Physiology 3rd Edition by Boron MD PhD, Walter F, Boulpaep MD, Emile L. (2017)
10. Gray’s Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingston Elsevier, Philadelphia, 2015.
11. Histology and Cell Biology: An Introduction to Pathology (4th Edition); Abraham L. Kierszenbaum, Laura L. Tres; Elsevier Saunders, Philadelphia, 2015
12. Molecular and Cellular Biophysics; Meyer B. Jackson; Cambridge University Press, Cambridge, 2006.
13. The Developing Human: Clinically Oriented Embryology (10th Edition); Keith L. Moore, T. V. N. Persaud, Mark G. Torchia; Elsevier, Philadelphia, 2015.
14. Harper’s Illustrated Biochemistry (30th Edition); Victor W. Rodwell, David Bender, Kathleen M. Botham, Peter J. Kennelly, P. Anthony Weil; McGraw-Hill, 2015.
15. **Fishman's Pulmonary Diseases and Disorders,** Michael A. Grippi, Jack A. Elias, Jay A. Fishman, Robert M. Kotloff, Allan I. Pack, Robert M. Senior, Mark D. Siegel **Fifth Edition,2015**
16. Harrison's*Principles of*Internal Medicine*,* 20e. J. Larry Jameson, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan L. Longo, Joseph Loscalzo.  McGraw-Hill Education.2018.
 |
| **MED 204 COMMITTEE EXAM WEEK** |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 22.05.2021 | MED 204 Committee Exam | 10:30-12:30 |
| **Teaching Methods and Techniques** |

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

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| **Evaluation Method** | Theoretical Exam (%70), Practical exam (%30) |
| **Lesson Language** | English |