

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

Circulatory&Respiratory Systems

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
Circulatory&Respiratory Systems	14. Committee	Fall Semester	106+24	0	9
Prerequisites Courses					
Recommended Elective Courses	Cardiovascular surgery				
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Committee				
Course Coordinator					
Name of Lecturer(s)					
Assistant(s)					
Aim	To gain knowledge of respiratory and circulatory system diseases with physiopathology, clinical course, diagnosis and treatment directions.				
Course Content	<p>This course contains; Introduction to hypertension,Basic Electrocardiography knowledge,History taking and physical examination in cardiovascular system disorders-1-2,Introduction to coronary artery disease,Pathophysiology, classification and diagnosis of heart failure-,Introduction to heart rhythm disorders ,Introduction to heart valve diseases,Introcudtion to aortic diseases ,TBL-Respiratory System Pathology ,TBL-Kardiyovasküler Sistem Patolojisi,Cardiomyopathies and myocarditis,Pericardial and valvular heart diseases ,Pathology of ischemic heart diseases ,Hypertensive vascular diseases and atherosclerosis,Pathology of pleural diseases ,Hipertansiyon tedavisi 1-2-3-4, Pathology of nonspectif infections of lung ,Pathology of pulmonary tuberculosis ,Pathology of diffuse interstitial lung disease,Antiplatelet and anticoagulant agents 1-2,Pathology of lung tumors ,Medical Pharmacology-COPD and cough medications 1-2,History, physical examination and diagnostic methods in cardiovascular diseases I,History, physical examination and diagnostic methods in cardiovascular diseases II ,Congenital heart diseases ,Heart failure,Fetal circulation,ECG evaluation in childhood,History, physical examination and diagnostic methods in respiratory system diseases-,Scientific Research-Cohort Studies, Introduction to sepsis 1-2,Introduction to Upper Respiratory Tract Infections,Systemic infections(Brucellosis, Salmonellosis, Leptospirosis, Malaria)-1-2,Infective endocarditis : Pathogenesis, diagnosis 1-2-3,Epidemiology of Noncommunicable Diseases ,Air Pollution and Effects on Health ,Airborne Diseases ,Climate Change and Effects on Health,Microbiology of Respiratory and circulatory system infections 1-2,Radiology of cardiovascular system 1-2,Radiology of respiratory system 1-2,Nuclear Medicine/Nuclear medicine use in cardiovascular diseases,Symptoms and signs in pulmonary diseases ,Physical examination in pulmonary diseases ,Testing of blood gases ,Pulmonary diseases and smoking ,Lung cancer,Pneumonia,Chronic obstructive pulmary disease (COPD) ,Pulmonary embolism ,Bronchiectasis,Diffuse interstitial pulmonary diseases ,Respiratory function tests ,Asthma,Pulmonary Tuberculosis,Pulmonary Emergencig,TBL -Respiratory Disease ,Acute Rheumatic ,Syncope and hypotension,Basic diagnostic work-up and therapeutic tools in cardiovascular system disorders,Blood pressure measurement,Obtaining and evaluating an ECG(Interactive group study) ,Diseases of veins /lymphatics and vascular tumors,Pathology of pulmonary vascular diseases ,Pathology of chronic obstructive pulmonary disease ,Pathology of diffuse interstitial lung disease - pneumoconiosis ,Drugs used in arrythmia 1-2,Drugs used in ischemic heart disease 1-2,Drugs used in heart failure 1-2.</p>				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Summarize respiratory and circulatory system diseases.1.1. Defines respiratory and circulatory system diseases.1.2. Explains the etiology of respiratory and circulatory system diseases.1.3. Summarizes the physiopathology of respiratory and circulatory system diseases.			12, 13, 16, 8, 9	A, D	
2. Summarizes the diagnosis of respiratory and circulatory system diseases.2.1. Takes anamnesis of patients.2.2. Demonstrates clinical diagnostic methods in respiratory and circulatory system diseases.2.3. Describes methods of radiological diagnosis of respiratory and circulatory system diseases.			12, 13, 16, 17, 4, 8, 9	A, D	
3. Summarizes the prophylaxis and treatment of respiratory and circulatory system diseases.3.1. Examples of ways to prevent respiratory and circulatory system diseases.3.2. Describes the treatment of respiratory and circulatory system diseases.3.3. List complications of respiratory and circulatory system diseases.			12, 13, 16, 4, 8, 9	A, D	
Teaching Methods	12: Problem Solving Method, 13: Case Study Method, 16: Question - Answer Technique, 17: Experimental Technique, 4: Inquiry-Based Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction to hypertension	none			
2	Basic Electrocardiography knowledge	none			
3	History taking and physical examination in cardiovascular system disorders-1-2	none			
4	Introduction to coronary artery disease	none			
5	Pathophysiology, classification and diagnosis of heart failure-	none			
6	Introduction to heart rhythm disorders	none			
7	Introduction to heart valve diseases	none			
8	Introcudtion to aortic diseases	none			
9	TBL-Respiratory System Pathology				
10	TBL-Kardiyovasküler Sistem Patolojisi				
11	Cardiomyopathies and myocarditis	none			
12	Pericardial and valvular heart diseases	none			
13	Pathology of ischemic heart diseases	none			
14	Hypertensive vascular diseases and atherosclerosis	none			
15	Pathology of pleural diseases	none			
16	Hipertansiyon tedavisi 1-2-3-4	none			
17	Pathology of nonspectif infections of lung	none			
18	Pathology of pulmonary tuberculosis	none			
19	Pathology of diffuse interstitial lung disease	none			
20	Antiplatelet and anticoagulant agents 1-2	none			
21	Pathology of lung tumors	none			

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Sequenc e	Topics	Preliminary Preparation
22	Medical Pharmacology-COPD and cough medications 1-2	none
23	History, physical examination and diagnostic methods in cardiovascular diseases I	none
24	History, physical examination and diagnostic methods in cardiovascular diseases II	none
25	Congenital heart diseases	none
26	Heart failure	none
27	Fetal circulation	none
28	ECG evaluation in childhood	none
29	History, physical examination and diagnostic methods in respiratory system diseases-	none
30	Scientific Research-Cohort Studies	none
31	Introduction to sepsis 1-2	none
32	Introduction to Upper Respiratory Tract Infections	none
33	Systemic infections(Brucellosis, Salmonellosis, Leptospirosis, Malaria)-1-2	none
34	Infective endocarditis : Pathogenesis, diagnosis 1-2-3	none
35	Epidemiology of Noncommunicable Diseases	none
36	Air Pollution and Effects on Health	none
37	Airborne Diseases	none
38	Climate Change and Effects on Health	none
39	Microbiology of Respiratory and circulatory system infections 1-2	none
40	Radiology of cardiovascular system 1-2	none
41	Radiology of respiratory system 1-2	none
42	Nuclear Medicine/Nuclear medicine use in cardiovascular diseases	none
43	Symptoms and signs in pulmonary diseases	none
44	Physical examination in pulmonary diseases	none
45	Testing of blood gases	none
46	Pulmonary diseases and smoking	none
47	Lung cancer	none
48	Pneumonia	none
49	Chronic obstructive pulmary disease (COPD)	none
50	Pulmonary embolism	none
51	Bronchiectasis	none
52	Diffuse interstitial pulmonary diseases	none
53	Respiratory function tests	none
54	Asthma	none
55	Pulmonary Tuberculosis	none
56	Pulmonary Emergencig	none
57	TBL -Respiratory Disease	
58	Acute Rheumatic	none
59	Syncope and hypotension	none
60	Basic diagnostic work-up and therapeutic tools in cardiovascular system disorders	none
61	Blood pressure measurement	none
62	Obtaining and evaluating an ECG(Interactive group study)	
63	Diseases of veins /lymphatics and vascular tumors	none
64	Pathology of pulmonary vascular diseases	none
65	Pathology of chronic obstructive pulmonary disease	none
66	Pathology of diffuse interstitial lung disease - pneumoconiosis	none
67	Drugs used in arrythmia 1-2	none
68	Drugs used in ischemic heart disease 1-2	none
69	Drugs used in heart failure 1-2	none
Evaluation Methods		Weight(%)
Midterm Exam		60
General Exam		40

Resources
Instructor's lecture notes.1. Kayaalp, SO: Rasyonel Tedavi Yönünden Tıbbi Farmakoloji, Ankara.
2. Hardman JG, Limbird LE, Eds.: Goodman and Gilman's The Pharmacological Basis of Therapeutics, New York.
3. Katzung & Trevor: Farmakoloji, Ankara.
4. A. Yüksel Barut: Radyolojide Doğrudan Tanı, Rota Tıp Yayınevi.
5. Tevfik Özlü: Göğüs Hastalıkları El Kitabı, Rota Tıp Yayınevi.
6. M. Sadık Demirsöy: Çocuk Hastalıklarında Öykü Alma ve Fizik Muayene (PROPEDÖTİK), Nobel Tıp Kitabevi.
7. Işık BAŞAR, Lale KOLDAŞ, Faruk AYAN: Kardiyolojik Semiyoloji EKG, Nobel Tıp Kitabevleri.