International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

CARDIOVASCULAR SURGERY (Elective)

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
CARDIOVASCULAR SURGERY (Elective)	ISM4113865	Fall Semester	0+40	0	2

Prerequisites Courses	
Recommended Elective Courses	Increasing their skills on specific topics related to cardiovascular surgery, lectures that dominate the subjects.
Language of Instruction	English
Course Level	First Cycle (Bachelor's Degree)
Course Type	Elective
Course Coordinator	Prof.Dr. Halil TÜRKOĞLU
Name of Lecturer(s)	Prof.Dr. Halil TÜRKOĞLU, Prof.Dr. Korhan ERKANLI, Prof.Dr. Ahmet ŞAŞMAZEL
Assistant(s)	Prof.Dr. Halil TÜRKOĞLU, Prof.Dr. Korhan ERKANLI, Prof.Dr. Ahmet ŞAŞMAZEL
Aim	To see the operations performed in heart surgery and to learn the surgical techniques used. In addition, it is aimed to have knowledge about heart-lung machines used in surgeries.
Course Content	This course contains; Introduction to cardiovascular system diseases and epidemiological data,History and physical examination in cardiovascular system diseases,Patient preparation and evaluation,Stable ischemic heart disease diagnosis and treatment approaches,Peripheral vascular diseases,Risk assessment and preoperative preparation before cardiovascular surgery,Surgical treatment in coronary artery disease,valve diseases,Valve repair and prosthetic valves,Aortic dissection and aortic aneurysms,Chronic venous insufficiency and varicose vein surgery,Deep vein thrombosis and pulmonary embolism,Surgical treatment in congenital heart diseases -1,Pericardial diseases and cardiac tumors,Percutaneous treatment options in structural heart diseases.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
It increases their skills on specific topics related to cardiovascular surgery.	10, 11, 16, 6, 9	D, E, F, G
Based on the basic symptoms of heart diseases (chest pain, shortness of breath, palpitations, fainting), they can turn to differential diagnosis by using methods such as anamnesis, physical examination, ECG and Telecardiography.	16, 9	D, E
They know the medical treatment of stable ischemic heart disease, the follow-up process and when revascularization is required.	16, 9	D, E
Recognize the basic findings of the cardiovascular system (midline evaluation and pulmonary congestion findings) in telecardiography.	16, 9	D, E
They know the basic cardiovascular anatomy for cardiovascular surgery.	16, 6, 9	D, E
They know the indications for coronary artery by-pass grafting, valve diseases and correction of common congenital heart diseases.	16, 9	D, E
They have an idea about preoperative evaluation and surgical methods in cardiovascular surgery. Recognize common adverse events in the early post-operative period.	16, 9	D, E
They know when to suspect deep vein thrombosis and pulmonary embolism and to ask for basic investigations. They can distinguish the high-risk patient from the low-risk patient in pulmonary embolism. They know who needs DVT prophylaxis.	16, 9	D, E

Teaching Methods	10: Discussion Method, 11: Demonstration Method, 16: Question - Answer Technique, 6: Experiential Learning, 9: Lecture Method
Assessment Methods	D: Oral Exam, E: Homework, F: Project Task, G: Quiz

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	Introduction to cardiovascular system diseases and epidemiological data	none
2	History and physical examination in cardiovascular system diseases	none
3	Patient preparation and evaluation	none
4	Stable ischemic heart disease diagnosis and treatment approaches	none
5	Peripheral vascular diseases	none
6	Risk assessment and preoperative preparation before cardiovascular surgery	none
7	Surgical treatment in coronary artery disease	none
8	valve diseases	none
9	Valve repair and prosthetic valves	none
10	Aortic dissection and aortic aneurysms	none
11	Chronic venous insufficiency and varicose vein surgery	none
12	Deep vein thrombosis and pulmonary embolism	none
13	Surgical treatment in congenital heart diseases -1	none
14	Pericardial diseases and cardiac tumors	none
15	Percutaneous treatment options in structural heart diseases	none

Evaluation Methods	**Weight(%)**
Midterm Exam	40
General Exam	60

Resources
Related resources and lecture notes.Bedside information, in the operating room, Prof. Dr. Descriptions of Halil Türkoğlu and other lecturers.