



**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE  
PHASE 6  
ENGLISH MEDICINE PROGRAM**

**COURSE of Cardiovascular Surgery**

**COURSE GUIDEBOOK**

# PREFACE

**Dear Students,**

Welcome to the **Cardiovascular Surgery** course which is an important part of your education.

This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

**Department of Cardiovascular Surgery**

## GENERAL INFORMATION on COURSE

Course Title	: Cardiovascular Surgery
Main Department of Course	: Surgical Sciences
Department Responsible for Course	: Cardiovascular Surgery
Course Code	: MED-6518
Course Topic Code	: MED-
Course Type	: Elective
Duration of the Course	: 1 month
Teaching Method of the Course	: Formal
ECTS	: 5
Language	: English

## TEACHING METHODS-TECHNIQUES

### **a. Applied training methods**

- ✓ Inpatient bedside (service) trainings / Inpatient bedside (service) practical applications
- ✓ Participation in outpatient services / Practical applications at the outpatient clinic
- ✓ Bedside Training / Practical Practices at the Bedside
- ✓ Instructor visits (Story taking, file preparation and presentation, interactive discussion, monitoring)
- ✓ Operating room applications
- ✓ Medical record keeping and evaluation practices
- ✓ Participation in Branch Informatics Applications

### **b. Interactive learning activities:**

- ✓ Meetings, panels, group discussions,
- ✓ Case-based discussion sessions, problem-based training sessions with small groups, critical situation discussions, councils, gamification, structured case discussions,
- ✓ Readings and interpretations of works/articles

### **c. Vocational Skills applications**

- ✓ The minimum number of practices/studies required for reinforcing the proficiency gained in the previous education periods in the defined vocational skills is determined and it is ensured that each intern does it.

### **d. Teamwork**

### **e. Independent learning**

- ✓ Independent working hours

### **f. Other Educational Events**

- ✓ Clinical Case Reports
- ✓ Article Presentations
- ✓ Seminar/Lesson Presentations
- ✓ Literature Presentations
- ✓ Research and Presentation

## PHYSICAL SPACES

Teaching Activity	Physical Space	Explanation
Theoretical lessons	Morphology Building	
Inpatient bedside practice	Training and Research Hospital	3rd floor Cardiovascular Surgery Ward 19- 26th rooms
Policlinic	Training and Research Hospital	2 nd floor Cardiovascular Surgery Polyclinic
Case analysis	Morphology Building	
Problem-based teaching		
Special audit applications	Training and Research Hospital	Jblock, Cardiovascular Surgery operating rooms and intensive care unit
Private field applications	Training and Research Hospital	Jblock, Cardiovascular Surgery operating rooms and intensive care unit

## RELATED LEGISLATION

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

## AIM(S) of the COURSE

1	In this internship, it is aimed that the students gain knowledge and skills in the fields of cardiovascular surgery, emergency, elective and preventive medicine.
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## OBJECTIVE(S) of the COURSE

1	To be able to communicate with Cardiovascular Surgery patients.
2	To be able to take a medical history, perform physical examination and evaluate findings from Cardiovascular Surgery patients.
3	To be able to explain the pathological findings of cardiovascular diseases.
4	To be able to present Cardiovascular Surgery patients at visits.
5	To be able to evaluate and follow the patient in the intensive care unit after open heart surgery in general.
6	To be able to explain the basic concepts of blood transfusion, hemostasis and coagulation and their applications in surgical practice.
7	To be able to explain, follow and evaluate the characteristics of drains, catheters, and probes.
8	To be able to perform nonsterile, sterile, and uncomplicated dressings.
9	To be able to determine and apply the first steps in the treatment of cardiovascular surgery diseases.

## INTENDED LEARNING OUTCOME(S)

1	Can communicate with Cardiovascular Surgery patients.
2	Can take a medical history, perform physical examination, and evaluate findings from Cardiovascular Surgery patients.
3	Can explain the pathological findings of cardiovascular diseases.
4	Can present Cardiovascular Surgery patients at visits.
5	Can evaluate and follow the patient in the intensive care unit after open heart surgery in general.
6	Can explain the basic concepts of blood transfusion, hemostasis and coagulation and their applications in surgical practice.
7	Can explain, follow, and evaluate the characteristics of drains, catheters, and probes.
8	Can perform nonsterile, sterile, and uncomplicated dressings.
9	Can determine and apply the first steps in the treatment of cardiovascular surgery diseases.



# **DUTIES and RESPONSIBILITIES OF STUDENTS and OTHER ISSUES**

**Please read:** MSKU Medical Faculty Pre-Graduation Education Rules, Students' Responsibilities and Duties (MSKÜ Tıp Fakültesi Mezuniyet Öncesi Eğitiminde Öğrencilerin Uyması Gereken Kurallar, Öğrencilerin Sorumlulukları ve Görevleri)

**Web Site:** <https://tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

## RECOMMENDED RESOURCE(S)

### KEY RESOURCE(S)

KEY RESOURCE(S)	Matched Course Outcome(s)
Cardiovascular Surgery Book (Editors; PAÇ, AKÇEVİN, AKA, BÜKET, SARIOĞLU)	1,2,4,5,6,8
Cardiovascular Surgery Book, Editor: Prof. Dr. Enver DURAN	1,2,3,4,5,6,8
Cardiac Surgery 4th Edition Kirklin / Barratt-Boyes	1,2,4,5,6,8
Rutherford's Vascular Surgery 9th Edition	1,2,3,8

### ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)
Aortic Surgery Book (Editor: Suat BÜKET, Tahir YAĞDI)	1,2,4,5
Turkish Society of Cardiovascular Surgery Peripheral Artery and Vein Diseases Treatment Guide	3
National Treatment Guidelines for peripheral artery and vein diseases	3
Perioperative Approach in Adult Cardiac Surgery Robert M. Bojar	1,2,4,6,

# ASSESSMENT and EVALUATION

**Phase 6 Student Internship Success Criteria: (All criteria must be met)**

1. The student must fulfill the internship continuity criteria.
2. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
3. Candidate Physician Logbook scoring of 60 and above is considered successful.

**Faculty of Medicine**  
**English Medicine Program**  
**Phase 6**  
**Cardiovascular Surgery Course**  
**Competence Matrix**

The Name of the Course	Po1	Po2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12	Po13
Cardiovascular Surgery	5	5	5	5	3	3	5	5	3	3	4	4	5

\* Completed according to the following program outcomes. (Score from 0 to 5.)

PO: Program Outcomes of Faculty of Medicine

PO Link: <https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr>

# CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE

<b>MUGLA SITKI KOCMAN UNIVERSITY</b> <b>MEDICAL SCHOOL</b> <b>CARDIOVASCULAR SURGERY INTERNSHIP</b> <b>CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE</b>		
Student's name and surname: Number:		Beginning:/...../..... End: .../..../.....
<b>A</b>	<b>Participation in Internship Training Programs (25 points)</b> <ul style="list-style-type: none"> <li>✓ Seminar, article, case report etc.</li> <li>✓ Report-Homework Preparation etc.</li> <li>✓ Research etc.</li> </ul>	
<b>B*</b>	<b>Internship Logbook Score (50 points) *</b> <ul style="list-style-type: none"> <li>✓ Fulfilling the applications specified in the internship logbook in the desired number and level etc.</li> </ul>	
<b>C</b>	<b>Fulfilling Intern Physician Work Responsibilities: (25 points)</b> <ul style="list-style-type: none"> <li>✓ Learning the seizure system, taking over, and transferring patients, obeying the hours</li> <li>✓ Service Activities</li> <li>✓ Polyclinic Activities</li> <li>✓ Fulfillment of assigned tasks</li> <li>✓ Adaptation and Participation in Teamwork</li> <li>✓ Communication with patients and their relatives</li> <li>✓ Compliance with working hours etc.</li> </ul>	
<b>CONTINUITY:</b>		<b>Continuous (....)</b>  <b>Discontinuous (.....)</b>
<b>RESULT:</b>		<b>Successful (....)</b>  <b>Unsuccessful (.....)</b>
<b>EVALUATION SCORE:</b> (With numbers and text)  Score: ..... (out of 100)	<b>INTERNSHIP COORDINATOR ACADEMIC STAFF:</b> Date: Signature:	<b>HEAD OF DEPARTMENT</b>  Date: Signature:
<b>Phase 6 Student Internship Success Criteria: (All criteria must be met)</b> <ol style="list-style-type: none"> <li>4. The student must fulfill the internship continuity criteria.</li> <li>5. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.</li> <li>6. Candidate Physician Logbook scoring of 60 and above is considered successful.</li> </ol>		
<b>* Half of the Candidate Physician Internship Logbook Score must be reflected in the B field.</b>		

# CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL CARDIOVASCULAR SURGERY CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK			
Student's name and surname:		Number:	
Beginning: ...../...../.....		End: ...../...../.....	
		Level	Performed
1.	Patient file preparation	4	
2.	Taking general and problem-oriented history	4	
3.	Systematic physical examination	4	
4.	Evaluation of general condition and vital signs	4	
5.	Interpreting the results of screening and diagnostic examinations	3	
6.	Differential Diagnosis		
7.	Reading and evaluating direct radiographs	3	
8.	Requesting rational laboratory and imaging examination	4	
9.	Applying the principles of working with biological material	4	
10.	Obtaining a biological sample from the patient	3	
11.	Taking the laboratory sample under appropriate conditions and delivering it to the laboratory	4	
12.	Providing decontamination, disinfection, sterilization, antisepsis	4	
13.	Hand washing	4	
14.	Opening vascular access	4	
15.	im, iv, sc, id Injection	4	
16.	Preparing the drugs to be applied correctly	3	
17.	Administering oral, rectal, vaginal, and topical drugs	3	
18.	Applying the principles of rational drug use	4	
19.	Treatment planning and prescription	4	
20.	Preparing patient discharge report	4	
21.	Properly referring the patient	4	
22.	Providing sufficient and understandable information to the patient and his/her relatives about the disease	4	
23.	Providing accurate and adequate information to the patient and/or patient relatives about possible interventions/treatment options, obtaining consent for treatment	4	
24.	Communicating effectively with the work team, colleagues, and trainers	4	
25.	Internship-specific item* .....		
26.	Internship-specific item* .....		
27.	Internship-specific item* .....		
<b>RESULT:</b>	<b>EVALUATION SCORE:</b>	<b>INTERNSHIP COORDINATOR</b>	<b>HEAD OF DEPARTMENT</b>
Successful (....)	(With numbers and text)	ACADEMIC STAFF:	
	Score: ..... (out of 100)	Date:	Date:
Unsuccessful (.....)		Signature:	Signature:

**Phase 6 Student Internship Success Criteria: (All criteria must be met)**

1. The student must fulfill the internship continuity criteria.
2. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
3. Candidate Physician Logbook scoring of 60 and above is considered successful.

**\*The Department can remove the item(s) from the Internship Logbook and/or add the item(s) specific to the internship by specifying the level to the Internship Logbook. It is recommended that the department check that all NCEP-2020 Basic Medicine Practices and levels related to the internship are stated in the Internship Logbook.**

**LEARNING LEVEL OF BASIC MEDICAL PRACTICES\***

<b>Level</b>	<b>Explanation</b>
1	Knows how the application is done and explains the results to the patient and / or their relatives
2	Makes the application in accordance with the guide / directive in an emergency
3	Makes the application* in uncomplicated, common, cases/cases
4	Makes the application** including complex situations/phenomenons
*Denotes the minimum level of performance, and therefore learning, that a physician who graduated from the faculty of medicine should exhibit during basic medicine practices. It is determined separately for each skill/application in the minimum level list. The faculties ensure that each student is able to perform the medical practice in question at the minimum level determined during the education period they apply.	
** Makes the preliminary evaluation/evaluation, creates, and implements the necessary plans, and informs the patient and their relatives/society about the process and its results.	
<b>*Source: NCEP 2020</b>	