

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

COURSE of CARDIOLOGY

COURSE GUIDEBOOK

PREFACE

Dear Students,

Welcome to the Cardiology 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 Cardiology

GENERAL INFORMATION on COURSE

Course Title

Main Department of Course Department Responsible for Course Course Code Course Topic Code Course Type Duration of the Course Teaching Method of the Course ECTS Language

- : Cardiology
- : Medical Sciences
- : Cardiology
- : MED-6507
- : MED
- : Elective
- :1 month
- : Formal
- :5
- : 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 ground floor	Morphology building	
	classrooms	ground floor	
		classrooms	
Inpatient bedside	Cardiology Inpatient Ward, intensive	Hospital building;	
practice	care unit	Floor -1, Floor 2	
Outpatient Clinics	Cardiology Outpatient Clinics		
Case analysis	Theoretical education classrooms		
Problem-based teaching	Theoretical education classrooms		
Special audit	Echocardiography, coronary	Hospital building	
applications	angiography, Holter, exercise stress test		
Private field applications	Coronary angiography, intensive care	Coronary	
	unit	angiography,	
		intensive care unit	

RELATED LEGISLATION

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

AIM(S) of the COURSE

1	In this course, it is aimed that the students be able to apply and develop the
	theoretical and practical cardiology knowledge gained in previous classes by taking
	the responsibility of the patient.
2	In this course, it is aimed that the students acquire the cardiology knowledge and
	skills that a general practitioner should have.

OBJECTIVE(S) of the COURSE

1	To be able to make differential diagnosis in the patient presenting with chest pain,
	to be able to recognize acute coronary syndrome, NonSTEMI, STEMI and Angina
	Pectoris and to be able to perform emergency treatment.
2	To be able to take and interpret ECG.
3	To be able to make the differential diagnosis of cardiac diseases in the patient presenting with shortness of breath.
4	To be able to treat emergency hypertension.
5	To be able to explain the basic application logic of non-invasive procedures that are actively applied in cardiology clinic (related to ECO, EFOR and HOLTER monitoring).

INTENDED LEARNING OUTCOME(S)

1	Can make differential diagnosis in the patient presenting with chest pain, can
	recognize acute coronary syndrome, NonSTEMI, STEMI and Angina Pectoris and
	can perform emergency treatment.
2	Can take and interpret ECG.
3	Can make the differential diagnosis of cardiac diseases in the patient presenting with
	shortness of breath.
4	Can treat emergency hypertension.
5	Can explain the basic application logic of non-invasive procedures that are actively
	applied in cardiology clinic (related to ECO, EFOR and HOLTER monitoring).

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)
1. Braunwald's Heart Disease, Textbook of Cardiovascular	
Medicine	
2. The ESC Textbook of Cardiovascular Medicine	
3. Klinik Kardiyoloji Tanı ve Tedavi	
4. Anabilim Dalı Slayt ve videoları	
5. Kardiyolojide Semiyoloji	
6.Uptodate	

ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)
1 . European Society of Cardiology (ESC) Guidelines.	
Link: https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines	
2.Türk Kardyoloji Derneği Kılavuzları.	
Link: https://tkd.org.tr/menu/44/ulusal-kilavuzlar	

ASSESMENT 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												
					Р	hase 6							
					Car	diolog	5y						
					C	Course							
				C	Compe	tence N	Aatrix		T	T	r		
Course	PO1	P02	PO3	PO4	PO5	P06	P07	P08	P09	PO10	PO11	PO12	PO13
Cardiology	5	5	4	4	1	1	3	2	2	1	4	4	4
* 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

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL CARDIOLOGY INTERNSHIP

CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE

	nt's name and surname:	Beginni	ng://					
Numb	oer:		End:,	//				
Α	Participation in Internsh	Participation in Internship Training Programs (25 points)						
	✓ Seminar, article, c	ase report etc.						
	✓ Report-Homewor	k Preparation etc.						
	✓ Research etc.							
B*	Internship Logbook Scor	re (50 points) *						
	 ✓ Fulfilling the app desired number a 	lications specified in the ir and level etc.	nternship	logbook in the				
С	Fulfilling Intern Physicia	n Work Responsibilities:	(25 poin	ts)				
	 ✓ Learning the seiz obeying the hour 	ure system, taking over, a s	nd transf	erring patients,				
	✓ Service Activities							
	✓ Polyclinic Activiti	les						
	✓ Fulfillment of assi	igned tasks						
	✓ Adaptation and P	articipation in Teamwork						
	✓ Communication v	vith patients and their rela	tives					
	✓ Compliance with	working hours etc.						
CONT	TINUITY:	Continuous ()		Discontinuous	()			
RESU	LT:	Successful ()		Unsuccessful (.)			
	UATION SCORE: numbers and text)	INTERNSHIP COORDINATOR ACAI STAFF:	DEMIC	HEAD OF DEPARTMENT				
Score	(aut of 100)	Date:		Date:				
Score: (out of 100)		Signature:		Signature:				
Phase	6 Student Internship Succ	ess Criteria: (All criteria n	nust be n	net)				
4. Tł	ne student must fulfill the in	nternship continuity criteri	a.					

- 5. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
- 6. Candidate Physician Logbook scoring of 60 and above is considered successful.

* Half of the Candidate Physician Internship Logbook Score must be reflected in the B field.

CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL CARDIOLOGY

CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK

Studen	it's name and surname:	Number:			
Beginni	ng://	End://	Level	Performed	
	Patient file preparation, accurate reco		4		
	Taking a general and problem-orient concomitant diseases	ted history, questioning all	4		
	Cardiological system examination, e signs	xamination, and evaluation of vital	4		
	Examining and interpreting all pulse	25	4		
	Venous fullness check		4		
6.	Developing and diagnosing a differe	ntial diagnosis approach	4		
7.	Evaluating the urgency of the clinica	l picture	4		
8.	Recognizing the symptoms of acute of distinguishing its subgroups	*	4		
9.	Recognizing heart failure symptoms	, physical examination findings	4		
10.	Defining and applying the Framingh	am criteria	4		
11.	Making heart failure classification		4		
	Identifying and questioning precipit worsening	ating factors in heart failure	4		
13.	Recognizing acute pulmonary edema	a	4		
14.	Recognizing asystole, ventricular fib	4			
15.	. Questioning the 6 characteristics of stable angina pectoris 4				
16.	Distinguishing the type of shortness of breath 4				
17.	Palpating and interpreting the apex	beat	4		
18.	Do not look for hepatojugular reflux		4		
19.	Looking and interpreting left-right v	entricular activity	4		
20.	Distinguish heart sounds		4		
21.	Recognizing additional sounds		4		
22.	Recognizing and interpreting murm	urs	4		
23.	Detection of cardiac effort capacity		4		
24.	Applying the principles of working	with biological material	4		
25.	Obtaining a biological sample from t	he patient	3		
26.	Requesting rational laboratory and in	maging examination	4		
27.	Taking the laboratory sample under to the laboratory	appropriate conditions and deliver it	4		
	Using laboratory methods applied ir	n primary care	4		
	Evaluating frequently requested labo	* *	4		
		patients, to plan further examinations			
	Reading and evaluating direct radio	graphs	3	1	
	Arterial blood gas collection	· ·	3	1	
	Vascular access, venous blood collec	tion	3	†	

33.	Measuring blood pressure 4						
	Urine catheter ins				4		
35.	IM, IV, SC, ID injection 4						
	Perform pericard				1		
	Taking and evalu				3		
		ife support (heart massage	e and artificial respiration)	3		
39.	Performing cardi	oversion and defibrillation	n		4		
		raphy and angioplasty pro			2		
		rity health problems and			3		
	<u> </u>	erson with his/her enviro	<u> </u>		3		
		y living information to the		e,	4		
		substance abuse, nutrition					
44.		prevention of chronic dise			4		
		patient, giving the treatm			3		
		learly, and following the c					
46.		nciples of rational drug us			4		
47.	Administering or	al, rectal, vaginal and top	ical drugs		3		
48.	Treatment planni	ing and prescription			4		
49.	Preparing a treat	ment refusal document			4		
50.	Preparing epicrisis 4						
51.	Appropriate refe	rral of patients			4		
52.	Providing sufficie	ent and understandable in	formation to the patient a	nd	3		
	his/her relatives		_				
53.	Providing accura	te and sufficient informati	ion to the patient and/or	patient	4		
	relatives about po	ossible interventions/treat	tment options, obtaining				
	consent for treatm						
54.	Communicating of	effectively with work tean	n colleagues and trainers		4		
55.	Internship-specifi	ic item*	••••••••••••••••••••••••••••••				
56.	Internship-specifi	ic item*	•••••••••••••••••••••••••••••••••••••••				
		ic item*					
RESULT:		EVALUATION SCORE: (With numbers and text)		HEAD	O OF RTMEN	T	
Successful ()		(vvini numbers and text)	ACADEMIC STAFF:	DELA	IN I IVI EIN	1	
Succes	siui ()		ACADEMIC STAFT.				
		Score: (out of 100)	Date:	Date:			
Unsucc	essful ()		Luic.	Duie.			
			Signature:	Signat	11re.		
				<u>~-6</u>			

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.

LEARNIN	LEARNING LEVEL OF BASIC MEDICAL PRACTICES*				
Level	Explanation				

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				
from the f separately is able to p	the minimum level of performance, and therefore learning, that a physician who graduated aculty of medicine should exhibit during basic medicine practices. It is determined of or each skill/application in the minimum level list. The faculties ensure that each student perform the medical practice in question at the minimum level determined during the 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.				
*Source: N	*Source: NCEP 2020				