MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE
PHASE 4
ENGLISH MEDICINE PROGRAM

COURSE of CARDIOLOGY

2022/2023 Academic Year

COURSE GUIDEBOOK

PREFACE

Dear Students,
Welcome to the Cardiology course which is an important part of your education.

In this course program, which is going to continue for 3 weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. 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 : Cardiology
Main Department of Course :Medical Sciences
Department Responsible for Course : Cardiology
Course Code : MED-4006
Course Topic Code : MED4-
Course Type : Required
Duration of the Course : 3 weeks
Teaching Method of the Course : Formal
ECTS : 4
Language : English
Head of the department : Prof. Dr. Fatih Akın
Teaching Staff :

Teaching Staff	Subject area	Theoretical Course duration (Hours)
Prof. Dr. Murat Biteker		
Prof. Dr. Fatih Akın		
Assoc. Prof. Dr. İbrahim Altun		
Assoc. Prof. Dr. Özcan Başaran		
Assoc. Prof. Dr. Volkan Doğan		
Assoc. Prof. Dr. Oğuzhan Çelik		

Coordinator of the Department Education Program : Assoc. Prof. Dr. Özcan Başaran
Coordinator of the Course Education Program : Assoc. Prof. Dr. Özcan Başaran
Coordinator of the Course Examinations : Assoc. Prof. Dr. Özcan Başaran
Coordinator of Course Assessment and Evaluation : Assoc. Prof. Dr. Özcan Başaran

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TEACHING METHODS-TECHNIQUES

1. **Theoretical lessons**
2. **Learning Centered Teaching**
    a. Case-based discussion sessions
    b. Student case reports,
    c. Practical application at the bedside
    d. Practical application at the bedside in the outpatient clinic
3. **Interactive teaching**

PHYSICAL SPACES

Teaching Activity	**Physical Space**	**Explanation**
Theoretical lessons	Morphology building ground floor classrooms	Morphology building ground floor classrooms
Inpatient bedside practice	Cardiology Inpatient Ward, intensive care unit	Hospital building; Floor -1, Floor 2
Outpatient Clinics	Cardiology Outpatient Clinics	
Case analysis	Theoretical education classrooms	
Problem-based teaching	Theoretical education classrooms	
Special audit applications	Echocardiography, coronary angiography, Holter, exercise stress test	Hospital building
Private field applications	Coronary angiography, intensive care unit	Coronary 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 have knowledge and experience about heart diseases, approach to heart patients, methods used in the diagnosis and treatment of heart diseases, and emergency and continuous treatment of heart diseases.

OBJECTIVE(S) of the COURSE

1	To be able to explain the pathophysiology of heart diseases.
2	To be able to evaluate the main symptoms and signs of heart diseases and to be able to make a differential diagnosis.
3	To be able to evaluate frequently used laboratory and imaging methods in cardiology practice.
4	To be able to explain the approach at the level of the general practitioner to the diagnosis and treatment of acute myocardial infarction.
5	To be able to explain which patient to refer to a cardiologist when and in what situations.

INTENDED LEARNING OUTCOME(S)

1	Can explain the pathophysiology of heart diseases.
2	Can evaluate the main symptoms and signs of heart diseases and to be able to make a differential diagnosis.
3	Can evaluate frequently used laboratory and imaging methods in cardiology practice.
4	Can explain the approach at the level of the general practitioner to the diagnosis and treatment of acute myocardial infarction.
5	Can explain which patient to refer to a cardiologist when and in what situations.

DUTIES and RESPONSIBILITIES OF STUDENTS and OTHER ISSUES

RESPONSIBILITIES

1. The training and education activities within the Course/Course blocks are carried out under the supervision of the instructor in charge of the course.
2. Before the clinical / outpatient applications, they introduce themselves as "Trainee Doctor" to the patient, give information and get permission from the patient, take the patient's medical history and perform a physical examination. They perform other medical procedures under the supervision of instructors.
3. The clothing of the trainee doctors in the working environment should be appropriate for the health worker.
4. Trainee doctors wear their ID cards visibly inside the hospital and in all educational environments.
5. Trainee doctors should wear a white doctor's coat inside the hospital.
6. They attend the theoretical and practical courses given by the instructors, as well as the applied trainings under the supervision of the instructors.
7. They attend visits during service working hours in line with the curriculum prepared by the department; They monitor all kinds of medical interventions for diagnosis and treatment in outpatient clinics, services and other diagnosis and treatment units, and perform the procedures in the practice list in accordance with the National Core Education Program / MSKU Extended Education Program at the specified level during course under the permission and supervision of the trainer.
8. In line with the program prepared by the department, they take the medical history of the patients given to them for educational purposes in the units, perform the physical examination, determine the preliminary diagnosis, make the interpretation and differential diagnosis of the case and present it to the lecturer.
9. They act in accordance with the principles and rules of medical professional ethics and deontology during practices.
10. They now the rights of patients and their relatives, acts respectfully to these rights and abides by the principle of confidentiality of patient information.

11. They do not share, use or accumulate for other purposes, information, documents and samples obtained from patients during training and practice studies with third parties, including patient relatives.
12. The patient should not inform the patient's relatives or third parties about the patient's medical condition and course without the knowledge and supervision of the instructors.
13. When they have serious information, observations and findings about patients that require changes in diagnosis and treatment, they immediately notify the relevant instructors.
14. They do not take the patient files out of the service.
15. They avoid behaviors that will harm patient safety and disrupt hospital hygiene.
16. During the course, they perform the tasks of preparing/presenting articles, preparing/presenting seminars, preparing/presenting interactive lessons, preparing/presenting cases and similar tasks.
17. All the work of the trainee students is for educational purposes only, and the trainee students cannot in any way be involved in the decisions, practices and records regarding the diagnosis, treatment, follow-up and medical care of the patients.
18. They know the patient rights regulation and the current health legislation and act accordingly.
19. During the course, it is important that the personal logbook is filled in carefully, signed and handed over to the responsible instructor at the end of the course.
20. They should be aware of the legislation of the Faculty of Medicine, including the Muğla Sıtkı Koçman University Faculty of Medicine Education-Training and Examination regulations, and act accordingly.
21. They act in accordance with the principles regarding attendance and other matters of Phase IV and V students in the MSKU Faculty of Medicine Education-Training and Examination Regulations.
22. As in all health institutions, they must comply with the rules, regulations and directives of the institution stated below.
    - ✓ Infection control rules
    - ✓ Rules on medical waste, household waste and recyclable waste
    - ✓ Radiation safety rules
    - ✓ Rules regarding employee health
    - ✓ Rules regarding patient safety

- ✓ Sample taking, sending, request writing, consent and similar rules
- ✓ Fire and safety precautions
- ✓ Ethical and deontological rules

Please read: MSKU Medical Faculty Pre-Graduation Education Rules, Students' Responsibilities and Duties

OTHER ISSUES:

1. Course period is 3 week.
2. In addition to the theoretical courses, "patient practice" courses are carried out during the course.
3. Practical lessons are carried out according to the practical application calendar created by the instructor in charge of the course by dividing them into groups and conveyed to the representative of the course group.
4. In practical lessons, they receive training in an outpatient clinic, inpatient service or laboratory in order to observe or apply the practical use of theoretical courses. The place where these practice hours will be held, and the preparation required from the students are announced to the group by the relevant lecturer.
5. During some of these practice hours, the patients in the ward are discussed, and during these hours, students are expected to prepare by evaluating the history, physical examination, laboratory evaluation and additional examinations of the ward patients.
6. During the course, students are expected to comply with the dress code and to have a white coat, stethoscope for examination or additional equipment with them during the bedside practice hours.

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

Assessment and Evaluation in Course Evaluation Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value for the End of Course Evaluation
Attendance to Classes		Compulsory	
Course Logbook		Compulsory	
Multiple Choice Theoretical Test Exam	40 multiple choice theoretical questions		%50
Unstructured (Jury-Based) Classical Oral Examination	Theoretical knowledge exam under the direction of at least 2 lecturers		%50
Total			**%100**

Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles

For the right to take the written exam, the student must be evaluated as "adequate" from the criteria specified in the course report.

Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

Multiple Choice Theoretical Test Exam
Bedside Clinical Practice Exam
Unstructured (Jury-Based) Classical Oral Examination

Assessment and Evaluation in the Resit Examination

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam	40 multiple choice theoretical questions		%50
Unstructured (Jury-Based) Classical Oral Examination	Theoretical knowledge exam under the direction of at least 2 lecturers		%50
Total			**%100**

Assessment and Evaluation in the Single Course Resit Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam	40 multiple choice theoretical questions		%50
Unstructured (Jury-Based) Classical Oral Examination	Theoretical knowledge exam under the direction of at least 2 lecturers		%50
Total			**%100**

COURSE LOGBOOK

STUDENT'S NAME AND SURNAME :
STUDENT'S SCHOOL NO :
COURSE PERIOD :

APPLICATION	**TEACHING STAFF (SIGNATURE)**				
DATE					
1.Anamnesis					
2.Patient Physical Examination					
3.Blood Pressure Measurement					
4.ECG interpretation					
5.Pericardiocentesis monitoring					
6.Transthoracic echocardiography monitoring					
7.Paracentesis Monitoring					
8.Thoracentesis Monitoring					
9.Transesophageal echocardiography monitoring					
10.Wound culture taking					
11.Arterial blood gas collection					
12.Nasogastric tube insertion					
13.Foley catheter insertion					
14.Measuring bleeding time					
15.Coronary angiography monitoring					
16.Rhythm Holter assessment					
17.Ability to interpret the effort test					
18.Measuring blood sugar with a strip					

DECISION: PASS FAIL

Head of Department or Coordinator:
Date:
Signature:

Faculty of Medicine
English Medicine Program
Phase 4
Cardiology
Course
Competence Matrix

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

TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS

Intended Learning Outcome	TRAINING ACTIVITY MATCHING	ASSESMENT AND EVALUATION METHODS MATCHING
1.Can explain the pathophysiology of heart diseases.	V, OS, P, MBL, R, L, S	P, S, T
2.Can evaluate the main symptoms and signs of heart diseases and to be able to make a differential diagnosis.	V, OS, P, MBL, R, L, S	P, S, T
3.Can evaluate frequently used laboratory and imaging methods in cardiology practice.	V, OS, P, MBL, R, L, S	P, S, T
4.Can explain the approach at the level of the general practitioner to the diagnosis and treatment of acute myocardial infarction.	V, OS, P, MBL, R, L, S	P, S, T
5.Can explain which patient to refer to a cardiologist when and in what situations.	V, OS, P, MBL, R, L, S	P, S, T

Abbreviations

Teaching Activity: Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)

Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)

INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE PROGRAM

Lecture Code	Hour	Lecture Type	Lecture Subject	NCEP-020 Matching	Course Aim Matching	Course Learning Outcome Matching	Activity Matching	Assessment and Evaluation Method	Vertical Integration	Horizontal Integration
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