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

COURSE of Anesthesiology and Reanimation

2022/2023 Academic Year

COURSE GUIDEBOOK

Course Code: MED5027
Course Topic Code: MED5-ANR

***This guide has been prepared by the Department of Anesthesiology and Reanimation Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

PREFACE

Dear Students,

Welcome to the Anesthesiology and Reanimation course which is an important part of your education.

In this course program, which is going to continue for two 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
Anesthesiology and Reanimation

GENERAL INFORMATION on COURSE

Course Title :Anesthesiology and Reanimation
Main Department of Course : Surgical Sciences
Department Responsible for Course : Anesthesiology and Reanimation
Course Code : Med5027
Course Type : Required
Duration of the Course : 2 weeks
Teaching Method of the Course : Formal
ECTS : 3
Language : English
Head of the department : **Prof. Dr. Bakiye Uğur**

Teaching Staff :

Teaching Staff	**Subject area**	**Theoretical Course duration (Hours)**
Prof. Dr. Bakiye Uğur	Neurosurgery anesthesia, obstetric anesthesia	8 Hours
Assoc. Prof. Başak Altıparmak	General surgery anesthesia, peripheral and region blocks	6 Hours
Assoc. Prof. Melike Korkmaz Toker	Adult and pediatric cardiovascular surgery)	8 Hours
Asst. Prof. Sinan Pektaş	Pain Specialist. Cancer pain, neuropathic pain, chronic pain	4 Hours
Asst. Prof. Canan Gürsoy	Intensivist- Intensive Care Medicine	6 Hours
Assoc. Prof. Ali İhsan Uysal	Neuraxial blocks, ultrasound-guided peripheral blocks	2 Hours
Specialist MD. Eylem Yaşar	Geriatric anesthesia	2 Hours

Coordinator of the Department Education Program : **Prof. Dr. Bakiye Uğur**
Coordinator of the Course Education Program : Assoc. Prof. Başak Altıparmak
Coordinator of the Course Examinations : Asst. Prof. Sinan Pektaş
Asst. Prof. Canan Gürsoy
Coordinator of Course Assessment and Evaluation : Asst. Prof. Sinan Pektaş
Asst. Prof. Canan Gürsoy

e-Mail : basakaltiparmak@mu.edu.tr

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	
Inpatient bedside practice	Muğla Training and Research Hospital	Anesthesiology Intensive Care Unit
Policlinic	Muğla Training and Research Hospital	Algology Clinic
Case analysis		
Problem-based teaching		
Special audit applications	Muğla Training and Research Hospital	
Private field applications	Muğla Training and Research Hospital	

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 gain knowledge and skills about anesthesia applications and intensive care patient follow-up within the scope of the National CEP.

OBJECTIVE(S) of the COURSE

1	To be able to prepare patients for surgery.
2	To be able to explain and apply monitoring.
3	To be able to use airway equipment and endotracheal intubation, provide airway in patients with respiratory failure.
4	To be able to perform cardiopulmonary resuscitation in a cardiac arrest patient.
5	To be able to administer first aid and, if necessary, advanced life support to the traumatized patient.
6	To be able to explain the physiopathology of shock and to apply emergency treatment approaches.
7	To be able to plan treatment for fluid and electrolyte balance disorders.
8	To be able to plan acute and chronic pain management.
9	To be able to plan cancer pain treatment.
10	To be able to explain the use and complications of blood and blood products.
11	To be able to explain the diagnosis of brain death and donor care.
12	To be able to inform and guide patients and their relatives about general and regional anesthesia.

INTENDED LEARNING OUTCOME(S)

1	Can prepare patients for surgery.
2	Can explain and apply monitoring.
3	Can use airway equipment and endotracheal intubation, provide airway in patients with respiratory failure.
4	Can perform cardiopulmonary resuscitation in a cardiac arrest patient.
5	Can administer first aid and, if necessary, advanced life support to the traumatized patient.
6	Can explain the physiopathology of shock and can apply emergency treatment approaches.
7	Can plan treatment for fluid and electrolyte balance disorders.
8	Can plan acute and chronic pain management.
9	Can plan cancer pain treatment.
10	Can explain the use and complications of blood and blood products.
11	Can explain the diagnosis of brain death and donor care.
12	Can inform and guide patients and their relatives about general and regional anesthesia.

DUTIES AND RESPONSIBILITIES OF STUDENTS

- ✓ Duration of course is 2 weeks.
- ✓ In addition to the theoretical courses, "patient practice" courses are carried out during the course.
- ✓ Students are responsible for completing the course logbook for each application during the course.
- ✓ During the course program (if no change is notified by the relevant faculty member during the course period), students are expected to fully present for theoretical or practical application. According to the regulation, there is an attendance requirement of 70% in theoretical courses and 80% in applied courses in Phase V.
- ✓ In operating room rotations, green operating room clothes, masks and bones should be dressed, and in intensive care and polyclinic rotations, white coats should be worn
- ✓ During your rotation in the operating room, you will be asked to monitor and apply skills such as establishing vascular access, airway management, and applying a nasogastric catheter.
- ✓ You are expected to attend morning visits in intensive care units, to gain knowledge about the approaches to patients and diseases, and to prepare at least one patient in detail.
- ✓ In the outpatient clinic, you are asked to be informed about how the pre-anesthesia evaluation is done, what facts are important to pay attention to, the approach to the patient with pain and treatment options.
- ✓ There is a compulsory attendance at all rotation places.
- ✓ Theoretical lessons will take place in a pre-determined classroom. Attendance to theoretical courses is compulsory.

RECOMMENDED RESOURCE(S)

KEY RESOURCE(S)

KEY RESOURCE(S)	Matched Course Outcome(s)
Lesson Note of Faculty of medicine, Muğla Sıtkı Koçman University	1-12
Anestezi- Yoğun Bakım- Ağrı. Editor: Filiz TÜZÜNER	1-12
Klinik Anestezi. Editor: Zeynep KAYHAN	1-12
Klinik Anesteziyoloji – LANGE	1-12
Ağrı - Serdar ERDİNE	1-12

ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)

ASSESMENT and EVALUATION

Assessment and Evaluation in the End of 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*	Multiple choice questions		50%
Bedside Clinical Practice Exam**			-
Structured Oral Examination***	Under the supervision of at least two faculty members		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.

1 st stage: Multiple Choice Theoretical Test Exam
2 nd stage: Structured Oral Exam

Assessment and Evaluation in 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*	Multiple choice questions		50%
Structured Oral Examination**	Under the supervision of at least two faculty members		50%
Total			**%100**

Assessment and Evaluation in 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*	Multiple choice questions		50%
Structured Oral Examination**	Under the supervision of at least two faculty members		50%
Total			**%100**

COURSE LOGBOOK

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

APPLICATION	NCEP Clause	TEACHING STAFF (SIGNATURE)
DATE		
1. Introduction of anesthesia device	E40,E57	
2. Preoperative patient examination and information	B9,B13,B17,B21	
3. Patient monitoring (ECG, pulse oximeter, blood pressure)	E40	
4. Establishing vascular Access	E13, E35	
5. Airway management and oropharyngeal airway placement	E3	
6. Patient ventilation with mask	E37	
7.Intubation practice	E23	
8. Nasogastric catheter application	E48	
9. CPR Practice	E14, E31,E37	
10. Monitoring neuraxial block applications	E46	
11. Central catheterization monitoring	E29,E35,E41	
12. Visit of the intensive care unit (evaluation of general status and vital signs)	B9,B13,B17,B21,E27, E41,E35	
13. Patient presentation and examination in intensive care	C5,C8,C10	
14. Capable of giving oxygen therapy	E57	
15. Supporting mechanical ventilation in pulmonary failure	E57	
16. Taking history from a patient with pain	C3,C5,C10	
17. Examination of a patient with pain	A3,B9	

DECISION: PASS: FAIL:

Head of Department or Coordinator:
Date:
Signature:

Faculty of Medicine
English Medicine Program
Phase V
Competence Matrix

The Name of the Course	Po1	Po 2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12	Po13
Anesthesiology and Reanimation	5	5	3	3	3	3	5	3	3	3	2	3	3

*** 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 prepare patients for surgery.	T-C	OE-TE
2. Can explain and apply monitoring.	T-C	OE-TE
3. Can use airway equipment and endotracheal intubation, provide airway in patients with respiratory failure.	T-C	OE-TE
4. Can perform cardiopulmonary resuscitation in a cardiac arrest patient.	T-C-VSL-V	OE-TE
5. Can administer first aid and, if necessary, advanced life support to the traumatized patient.	T-C-V	OE-TE
6. Can explain the physiopathology of shock and can apply emergency treatment approaches.	T-C-V	OE-TE
7. Can plan treatment for fluid and electrolyte balance disorders.	T-C-V	OE-TE
8. Can plan acute and chronic pain management.	T-C	OE-TE
9. Can plan cancer pain treatment.	T-C	OE-TE
10. Can explain the use and complications of blood and blood products.	T-C-V	OE-TE
11. Can explain the diagnosis of brain death and donor care.	T-C	OE-TE
12. Can inform and guide patients and their relatives about general and regional anesthesia.	T	OE-TE

Abbreviations

Teaching Activity: Theorical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Professional 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 POGRAM

Lecture Code*	Hour	Lecture Type	Lecture Subject	Course Aim Matching	Course Learning Outcome Matching	Activity Matching**	Assessment and Evaluation Method matching **	Vertical Integration	Horizontal Integration
MED5-ANR001	1	T	Course Introduction-Information Meeting	1		V	OE-TE		
MED5-ANR002	1	T	Preoperative Evaluation and Principles of General Anesthesia	1	1-12	T-C	OE-TE		
MED5-ANR003	2	T	Airway Providing Methods, Endotracheal Intubation	1	3	T-C	OE-TE		
MED5-ANR004	2	T	Monitorization, Intraoperative Patient Monitoring	1	2	T-C	OE-TE		
MED5-ANR005	2	T	Inhalation Anesthetics	1	12	T	OE-TE		
MED5-ANR006	1	T	Intravenous Anesthetics	1	12	T	OE-TE		
MED5-ANR007	2	T	Muscle Relaxants	1	12	T	OE-TE		
MED5-ANR008	1	T	Local Anesthetics	1	12	T	OE-TE		
MED5-ANR009	1	T	Cardiopulmonary Resuscitation	1	4	T-V-VSL	OE-TE	PHASE 2-VSL	
MED5-ANR010	1	T	Resuscitation in Special Cases	1	4	T-V-VSL	OE-TE		
MED5-ANR011	2	T	Pain Physiopathology	1	8	T-C	OE-TE		
MED5-ANR012	2	T	Analgesics	1	8	T-C	OE-TE		
MED5-ANR013	2	T	Acute Respiratory Failure, Oxygen Therapy	1	3	T-C-V	OE-TE	PHASE 4-PULMONARY DISEASE	
MED5-ANR014	1	T	Basic Modes in Mechanical Ventilation	1	3	T-C-V	OE-TE		
MED5-ANR015	2	T	Fluid Electrolyte Balance and Replacement	1	7	T-C-V	OE-TE		
MED5-ANR016	1	T	Malignant Hyperthermia	1	12	T-C-V	OE-TE		
MED5-ANR017	2	T	Crush Syndrome	1	5-7	T-C-V	OE-TE		

MED5-ANR018	1	T	Approach to Head Trauma Patient	1	5-6	T-C-V	OE-TE		
MED5-ANR019	2	T	Sepsis	1	6	T-C-V	OE-TE		
MED5-ANR020	2	T	Regional Anesthesia	1	12	T-C	OE-TE		
MED5-ANR021	2	T	Approach to Trauma Patient	1	5	T-C-V	OE-TE		
MED5-ANR022	1	T	Brain Death and Donor Care	1	11	T-C-V	OE-TE		
MED5-ANR023	1	T	Nutrition in Intensive Care Unit	1	7	T-C-V	OE-TE	PHASE 4-SURGERY	
MED5-ANR024	1	T	Complications of Blood Transfusion, Massive Transfusion	1	10	T-C-V	OE-TE		
MED5-ANR025	1	T	Cancer Pain	1	9	T-C	OE-TE		
MED5-ANR026	1	T	Interventional Methods in Pain Treatment	1	8-9	T-C	OE-TE		
MED5-ANR027	1	T	Anesthesia Device	1	1-12	T-C	OE-TE		
MED5-ANR028	2	P	Preoperative patient examination and information	1	1-12	C	OE-TE		
MED5-ANR029	2	P	Patient monitoring (ECG, pulse oximeter, blood pressure)	1	2	C	OE-TE		
MED5-ANR030	2	P	Introduction of anesthesia device	1	1-12	C	OE-TE		
MED5-ANR031	2	P	Establishing vascular Access	1	1	C	OE-TE		
MED5-ANR032	2	P	Airway management and oropharyngeal airway placement	1	3	C	OE-TE		
MED5-ANR033	2	P	Patient ventilation with mask	1	3	V-C	OE-TE		
MED5-ANR034	4	P	CPR Practice	1	4	V-VSL	OE-TE		
MED5-ANR035	2	P	Taking history from a patient with pain	1	8-9	C	OE-TE		
MED5-ANR036	2	P	Intubation practice	1	3	C	OE-TE		
MED5-ANR037	2	P	Capable of giving oxygen therapy	1	3	V	OE-TE		
MED5-ANR038	2	P	Monitoring neuraxial block applications	1	12	C	OE-TE		
MED5-ANR039	2	P	Nasogastric catheter application	1	1	V	OE-TE		
MED5-ANR040	2	P	Visit of the intensive care unit (evaluation of general status and vital signs)	1	2-4-5-6-7-10	V	OE-TE		
MED5-ANR041	1	P	Supporting mechanical ventilation in	1	3	V	OE-TE		

			pulmonary failure						
MED5-ANR042	2	P	Patient presentation and examination in intensive care	1	2-4-5-6-7-10	V	OE-TE		
MED5-ANR043	2	P	Examination of a patient with pain	1	8-9	V-C	OE-TE		
MED5-ANR043	1	P	Central catheterization monitoring	1	1	C	OE-TE		

EXPLANATIONS:

* Lecture code will be formed by writing 001, 002,… at the end of the code taken from the "Codes for Phase 5 matrix" section.

****Abbreviations**

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

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