

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

ANESTHESIOLOGY and REANIMATION

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ANESTHESIOLOGY and REANIMATION	ISM5014619	Yearly	24+42	0	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Practice				
Course Coordinator	Prof.Dr. Pelin KARAASLAN				
Name of Lecturer(s)	Prof.Dr. Pelin KARAASLAN, Assoc.Prof. Yahya YILDIZ, Prof.Dr. YUNUS OKTAY ATALAY, Assist.Prof. Ayşe İNCE				
Assistant(s)					
Aim	The aim of this clerkship is; to provide gaining knowledge and skills about the methods of anesthesia, intensive care and pain.				
Course Content	This course contains; Introduction to Anesthesia,Monitorisation,Cardio Pulmonary Resuscitation (BLS),Cardio Pulmoner Resuscitation (ALS),Preoperative Preperation and Premedication,Inhalation Anesthetics and Intravenous Anesthetics,Neuromuscular Blocking Agents and Narcotic Analgesics,Types and Complications of General Anesthesia,Endotracheal Intubation and Complications,Regional Anesthesia and Complications,Sedation and Analgesia,Local Anesthetics and Toxicity,Brain Death and Organ Donor Care,Emergency and Massive Blood Transfusion,Principles of ICU,Acute Respiratory Distress Syndrome (ARDS),Enteral-Parenteral Nutrition,Crush Syndrome,Acid-Base Disorders-1,Acit-Base Disorders-2,Dehydration,Fluid and Electrolyte Balance Disorders -1,Fluid and Electrolyte Balance Disorders-2,Anaphylaxis,Sepsis,Shock,Oxygen Therapy,Near Drowning and Intensive Care,Management of Patients with Pain and Postoperative Analgesia,Principles of Analgesic Drug Usage.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1.	Explains the meaning and practice areas of anesthesia.		18	A	
10.	He/She gains endotracheal intubation skill.		6	D	
11.	Lists the complications of general anesthesia.		18	A	
12.	List the complications of regional anesthesia.		18	A	
14.	Explains and applies the basic life support.		18, 6	A, D	
15.	Explains and applies the advanced life support.		18, 6	A, D	
16.	Presents the defibrillator usage.		18, 6	A, D	
17.	He/She describes the criteria of patients admission to ICU.		18	A	
18.	Evaluates the fluid-electrolyte condition of the patient and selects the correct fluids.		18	A	
19.	Explains the acid-base balance according to the clinical situation.		18	A	
20.	Describes the diagnostic criteria of sepsis and lists sepsis treatment principles.		18	A	
22.	Defines brain death and explains the importance of brain death .		18	A	
24.	Recognizes the patient with ARDS and applies the principal treatment.		18	A	
25.	Defines the requirement of oxygen and counts oxygen delivery methods.		18	A	
26.	Defines of the pain assessment and principles of basic analgesic usage.		18	A	
2.	He/She defines general and regional anesthesia.		18	A	
3.	He/She describes Intensive Care Unit (ICU) and lists what types of patients are being treated in Intensive Care Unit.		18	A	
4.	Lists the working area of algology.		18	A	
5.	Lists the drugs used in general anesthesia.		18	A	
6.	He/She lists of drugs used in regional and local anesthesia.		18	A	
7.	Lists the drugs used in pain treatment.		18	A	
8.	Describes the importance of preoperative patient preparation.		18	A	
9.	Knows and appies the monitoring methods.		18, 6	A, D	
13.	Defines heart and respiratory arrest.		18	A	
21.	Defines massive blood transfusion and counts complications.		18	A	
23.	Recognizes the shocked patient and applies the pricipal treatment.		18	A	
27.	Counts sedative and analgesic drugs and lists the situations in which they are used.		18	A	
28.	Defines the malnutrition, lists complications and endications of enteral-parenteral nutrition.		18	A	
29.	Defines the Crush Syndrome and summarizes treatment of Crush Syndrome.		18	A	
30.	Defines near drowning and lists emergency therapy of near drowning.		18	A	
Teaching Methods	18: Micro Teaching Technique, 6: Experiential Learning				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction to Anesthesia				
2	Monitorisation				
3	Cardio Pulmonary Resuscitation (BLS)				
4	Cardio Pulmoner Resuscitation (ALS)				
5	Preoperative Preperation and Premedication				
6	Inhalation Anesthetics and Intravenous Anesthetics				
7	Neuromuscular Blocking Agents and Narcotic Analgesics				
8	Types and Complications of General Anesthesia				
9	Endotracheal Intubation and Complications				
10	Regional Anesthesia and Complications				

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Lecture Schedule		
Sequence	Topics	Preliminary Preparation
11	Sedation and Analgesia	
12	Local Anesthetics and Toxicity	
13	Brain Death and Organ Donor Care	
14	Emergency and Massive Blood Transfusion	
15	Principles of ICU	
16	Acute Respiratory Distress Syndrome (ARDS)	
17	Enteral-Parenteral Nutrition	
18	Crush Syndrome	
19	Acid-Base Disorders-1	
20	Acid-Base Disorders-2	
21	Dehydration	
22	Fluid and Electrolyte Balance Disorders -1	
23	Fluid and Electrolyte Balance Disorders-2	
24	Anaphylaxis	
25	Sepsis	
26	Shock	
27	Oxygen Therapy	
28	Near Drowning and Intensive Care	
29	Management of Patients with Pain and Postoperative Analgesia	
30	Principles of Analgesic Drug Usage	
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources
Lecturers'own lecture notes Morgan and Mikhail's Clinical Anesthesiology Ed. Butterworth JF, Mackey DC, Wasnick JD. Mc Draw Hill Medical Lange 2013, Klinik Anestezi, Zeynep Kayhan. Yoğun Bakım Sorunları ve Tedavileri. Edt: Haydar Şahinoğlu. Üçüncü Baskı. Nobel Tıp Kitabevleri, İstanbul. 2011.