In the Name of God

Islamic Republic of Iran Ministry of Health and Medical Education Deputy for Education

Anesthesiology

Degree: Specialty

Introduction:

Anesthesiology is a branch of medicine in which the graduates will become competent in treatment and management (in specific distressing and life-threatening conditions), assessment, consultation, preparation of patients before anesthesia, general, regional or local, pain control and providing sedation, administration of anesthesia to patients during surgery/ obstetrical procedures and diagnostic-therapeutic measures, monitoring and maintaining the physiological balance of the patients before, during, and after surgery, caring and creating comfortable, safe, and satisfactory conditions for the patients undergoing diagnostic or therapeutic procedures with or without anesthesia, intensive care and vital support for critically ill patients, cardiopulmonary resuscitation, control of acute and chronic pain in the relevant educational field.

Program duration: 4 years

Admission Requirements

- Holding an MD degree
- Having passed the National Entrance Exam

Expected Competencies at the End of the Program

General Competencies*

Specific Competencies and Skills

At the end of the program learners will be competent in the following skills:

Procedural skills			
1.	Arterial line insertion		
2.	CV line insertion		
3.	Double-lumen endotracheal tube insertion using Fiberscope		
4.	Fiberoptic bronchoscopy		
5.	Fiberoptic intubation		
6.	Spinal anesthesia		
7.	Epidural block (lumbar area)		
8.	Epidural block (thoracic area)		
9.	Caudal block		
10.	Upper extremity block		
11.	Lower extremity block		
12.	Bier's block		
13.	Neonatal intubation		
14.	Adult intubation outside the operating room		

15. Laryngeal mask airway (LMA) insertion and management				
16. Pain management procedures				
17. Childbirth without pain				
18. (Transesophageal echocardiography) TEE				
19. TPN				
20. (Intraaortic balloon pump) IABP				
21. Anesthesia outside the operating room, such as MRI and CT units,				
radiotherapy, radiology, and angiography wards, etc.				
22. Anesthesia for Electro convulsive therapy (ECT)				
23. Nasal intubation				
24. Change ETT with and without tube changer				
25. Non-invasive positive pressure ventilation				
26. Bronchoscopy and bronchoalveolar lavage				
27. *Check intraabdominal pressure in ICU				
28. Sonography for insertion of pleural catheter				
29. LP and check of CSF Pressure				
30. tracheostomy				
31. **Continuous Renal Replacement Therapy (CRRT)				
32. Awake intubation				

^{*} It is a technique for diagnosing Intraabdominal compartment syndrome

33. Using sonography for blocks and arteriovenous access

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

I. Assessment Methods:

Students will be assessed by the following methods:

Written, oral, computer interaction test, OSCE, DOPS, CBD, Logbook assessment, 360-degree feedback, paper-based assessment, Portfolio assessment, GRF

II. Periods of Assessment

- Continuous (Formative)
- Annual
- Final examination (Summative)

Ethical Considerations*

*Note: The related document(s) can be found at http://hcmep.behdasht.gov.ir/.

^{**} To protect the kidney function in complex operating rooms and ICU

The overall structure of the course:

Ward/Unit	Content	Duration
	Patients's Files Review and	Daily
	Examination, selecting Best Anesthetic	
Operation Room/Recovery	Approach, Anesthesia Induction,	
operation mountains	Patients' Vital Signs, Monitoring and	
	Care, Post anesthesia Care, monitoring	
	in recovery,	
	Examination and evaluation of:	2 months
	Pulmonary and Cardiovascular Diseases,	
	Pulmonary Function Tests Interpretation,	
	EKG,	
Internal Medicine Ward	Introduction to Echocardiography and	
	Angiography,	
	Complicated Diabetic Cases	
	Management,	
	Renal Failure Management, Dialysis,	
	Working with Ventilators, Oxygen	6 months
ICU	Therapy, TPN, Care and Monitoring of	
icu	the Patients,	
	Consultation	
	Examination and Evaluation of referred	At least once a week
	Patients, laboratory or Paraclinical Test	
Anesthesiology Consultation Room	Request and interpretation, Request	
	consultation or giving response to other	
	colleagues' consultation requests	
	Introduction to pain Control Methods for	2 months
Pain Clinic	acute and chronic pains, and	
	performance of related procedures	
Labor Pain Control Services	Introduction to pain Control	1 months
Labor Fam Control Services	During labor	
Anesthesiology Services Out of	Examination and evaluation of patients,	1 month rotational
Operation Room	sedation for other services procedures	
Community Medicine research centers	Finalizing the research project	1 month
or other research centers		i monui
Optional Ward	One of the above mentioned wards	1month

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