Course Specification Card for Anesthesia

College	College of Medicine	Department	Medical Education					
Course Name (English)	Anesthesia	Course Name (Arabic)	التخدير					
Course Number	1000511	Course Code 1000511						
Credit Hrs.	1.5	Contact Hrs.	Theoretical	Practical	Т			
Teaching Language	English Arabic			45	45			
Teaching Method	Face-to-Face	Online	-	Blended				
Course Nature	Compulsory Elective							
Course Type	University Requirement College Requirement Program Requirement							
Level	Year 5	Pre-Requisite(s) Block 4.2						

Course Description

By the end of this integrated course, students should have the necessary knowledge, skills and attitudes that will enable them to function effectively as members of an interdisciplinary healthcare team capable to: Acquire the basic knowledge of ANAESTHESIA to secure foundation in the subject on which they can subsequently build, whether for general practice, or further specialization. Use and apply 'evidence based medicine' in order that they can update and choose best options for patient management. Function appropriately in operation theater setting as a member of Anaesthesia care team .Examine the patient preoperatively in an organized and appropriate manner. Formulate a plan for Anaesthetic management of routine surgical procedure. Knows the indications and interpretations of standard intraoperative monitors. Describe the drugs used in Anaesthesia practice. Demonstrate the basics of airway management. Describe the techniques of regional blocks i-e subarachnoid and epidural. Describe the basic principles of blood transfusion and its complications. Formulate a plan for perioperative fluid management. Recognize the complications in post-operative period.

Topics

Management of general Anesthesia/ Pre Anesthesia Assessment Anesthetic drugs Local Anesthetics and Regional Anesthetic Technique Intraoperative Monitoring Airway assessment and its Management /practicing endotracheal intubation in simulation lab Blood transfusion and complications Perioperative Fluid Management

Learning Outcomes

- Describe the Anaesthetic drugs including intravenous induction agents, inhalational induction agents, muscle relaxants, benzodiazepines, opioids, reversing agents with special attention to mechanism of action, indications, contraindication and, side effects
- Describe the most common side effects of anaesthetic agents
- Describe intraoperative awareness and management
- Describe Malignant hyperthermia and its management
- Describe succinyle apnea and its management
- Describe the use of succinyle choline in rapid sequence induction technique and in difficult airway
- Describe the technique Regional Anaesthesia i-e subarachnoid block and epidural block.
- List the indications, contraindications, complications of Regional blocks.
- Describe the technique of spinal anaesthesia
- List the complications of regional block and their management
- Describe local anaesthetics with reference to mechanism of action, types, uses, side effects ant toxicity
- Describe the routine preparations and basic conduct of general and regional Anaesthesia
- Describe the pre anaesthesia assessment with special attention to history, examination, laboratory investigations.
- Describe the ASA physical status classification
- Describe the adult and pediatric patients fasting guidelines

Postoperative Pain	• D	Describe the components of consent							
Management		Describe the principles related to perioperative fluid management.							
Post Anesthesia	• L	ist the different types of colloid and crystalloid solutions, their perioperative use and							
Complications		ignificance							
Anesthesia skills		Describe the fluid management according to the physical status of the patient.							
/for practicing spinal block		Describe the perioperative fluid therapy							
spillar block		Describe the principles related to blood transfusion.							
		Describe massive blood transfusion and complications related to blood transfusion							
		Describe the component therapy							
		Describe blood storage/changes occurs in stored blood							
		Describe the management of massive hemorrhage							
		Describe the safe blood transfusion guidelines							
		Describe the alternative blood transfusion strategies for blood transfusion							
		Outline the physiological effects of postoperative pain, methods of pain assessment,							
routs of analgesic administration and principles of its management.									
	List the complications observed in post anaesthesia period and management of these complications.								
		omplications	sis ACA into						
		Describe the basic ASA intraoperative monitors i-e							
		Blood pressure, ECG, ETCO2, SpO2, Temperature, Urine output and significance of each monitor.							
		Describe the anatomy of airway Describe the different tests for the Assessment of airway							
					-	airway i.e. ETT, oro	nharvnoeal		
						et, laryngoscope, Am			
				pressure in rapid sec			10 4 0 4 5		
		escribe the rol			1001100 11	que			
		List the causes of difficult airway List the complications of endotracheal intubation and management Describe the routine preparations and basic conduct of general and regional Anaesthesia							
		Show skills of consultation with other physicians and other health care professionals							
		ith team work		1 7		ī			
				ts and principles of	ethics				
	• I	Demonstrate pr	ofessional, re	espectable attitude	at hospita	al with colleagues an	d staff		
	• P	Perform evaluation of patient pre operatively with respect to history, examination and							
		aboratory inves							
	• P	reform intubat	ion on manne	equins					
	• P	erform spinal a	anaesthesia o	n mannequins					
			%	⊠ osce	30%	Final Exam	40%		
Assessment Tools			, 0	□ OBCE	3070	I mai Exam	1070		
rissessificate root				Mc4:					
		Assignmen	%	Continuous	30%	Oral	%		
		ts		Assessment		Participations			
Main Reference		 1 .Smith and Aitkenheads Textbook of Anaesthesia 8th edition 							
		 2.Clinical Anaesthesiology Morgan & Mikhail's 5th edition 							
Supporting References		■ The British Journal of Anaesthesia							