

Competency Mapping Chart

Competency code	COMPETENCY The student should be able to	Page no
Anesthesiology as a Specialty		
AS1.1	Describe the evolution of anesthesiology as a modern specialty	385
AS1.2	Describe the roles of anesthesiologist in the medical profession (including as a perioperative physician, in the intensive care and high-dependency units, in the management of acute and chronic pain, including labor analgesia, in the resuscitation of acutely ill)	386
AS1.3	Enumerate and describe the principle of ethics as it relates to anesthesiology	385
AS1.4	Describe the prospects of anesthesiology as a career	386
Cardiopulmonary Resuscitation		
AS2.1	Enumerate the indications, describe the steps, and demonstrate in a simulated environment basic life support in adults, children, and neonates	366
AS2.2	Enumerate the indications, describe the steps, and demonstrate in a simulated environment advanced life support in adults and children	368
Preoperative Evaluation and Medication		
AS3.1	Describe the principles of preoperative evaluation	21
AS3.2	Elicit, present, and document an appropriate history including medication history in a patient undergoing surgery as it pertains to a preoperative anesthetic evaluation	21
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing general surgery	21
AS3.4	Choose and interpret appropriate testing for patients undergoing surgery	23, 25
AS3.5	Determine the readiness for general surgery in a patient based on the preoperative evaluation	22
AS3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery	22
General Anesthesia		
AS4.1	Describe and discuss the pharmacology of drugs used in induction and maintenance of general anesthesia (including intravenous and inhalation induction agents, opiate and nonopiate analgesics, depolarizing and nondepolarizing muscle relaxants, anticholinesterases)	63, 74, 91
AS4.2	Describe the anatomy of the airway and its implications for general anesthesia	3
AS4.3	Observe and describe the principles and practical aspects of induction and maintenance of anesthesia	61
AS4.4	Observe and describe the principles and the steps/techniques in maintenance of vital organ functions in patients undergoing surgical procedures	47
AS4.5	Observe and describe the principles and the steps/techniques in monitoring patients during anesthesia	47

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AS4.6	Observe and describe the principles and the steps/techniques involved in daycare anesthesia	319
AS4.7	Observe and describe the principles and the steps/techniques involved in anesthesia outside the operating room	309, 312
Regional Anesthesia		
AS5.1	Enumerate the indications for and describe the principles of regional anesthesia (including spinal, epidural, and combined)	112, 114, 119, 121, 122
AS5.2	Describe the correlative anatomy of the brachial plexus, subarachnoid, and epidural spaces	112, 119, 127
AS5.3	Observe and describe the principles and steps/techniques involved in peripheral nerve blocks	125, 126
AS5.4	Observe and describe the pharmacology and correct use of commonly used drugs and adjuvant agents in regional anesthesia	120
AS5.5	Observe and describe the principles and steps/techniques involved in caudal epidural in adults and children	122
AS5.6	Observe and describe the principles and steps/techniques involved in common blocks used in surgery (including brachial plexus blocks)	127, 130, 133
Postanesthesia Recovery		
AS6.1	Describe the principles of monitoring and resuscitation in the recovery room	390, 392
AS6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room	390
AS6.3	Describe the common complications encountered by patients in the recovery room, their recognition, and principles of management	393
Intensive Care Management		
AS7.1	Visit, enumerate, and describe the functions of an intensive care unit	400
AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an intensive care unit	400, 420
AS7.3	Observe and describe the management of an unconscious patient	402
AS7.4	Observe and describe the basic setup process of a ventilator	398
AS7.5	Observe and describe the principles of monitoring in an intensive care unit	401
Pain and Its Management		
AS8.1	Describe the anatomical correlates and physiologic principles of pain	325
AS8.2	Elicit and determine the level, quality, and quantity of pain and its tolerance in patient or surrogate	325
AS8.3	Describe the pharmacology and use of drugs in the management of pain	326
AS8.4	Describe the principles of pain management in palliative care	331
AS8.5	Describe the principles of pain management in the terminally ill	331
Fluids		
AS9.1	Establish intravenous access in a simulated environment	Practicals/ Viva voce

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Competency code	COMPETENCY The student should be able to	Page no
AS9.2	Establish central venous access in a simulated environment	Practicals/ Viva voce
AS9.3	Describe the principles of fluid therapy in the preoperative period	31
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	40
Patient Safety		
AS10.1	Enumerate the hazards of incorrect patient positioning	Practicals/ Viva voce
AS10.2	Enumerate the hazards encountered in the perioperative period and steps/ techniques taken to prevent them	Practicals/ Viva voce
AS10.3	Describe the role of communication in patient safety	Practicals/ Viva voce
AS10.4	Define and describe common medical and medication errors in anesthesia	388