Anesthesia

Presentation guide

DC = Statement of the competence for a particular domain
E = Elements of the competence for a specific statement of competence
P = Performance criteria for competency; associated with a specific element of the competence

Domain of competence DC.12

Perform anesthesia assistance in a clinical setting

E12.1 Set up and verify anesthetic equipment

P12.1.1 Verify the integrity of the anesthesia machine
P12.1.2 Prepare the equipment and accessories necessary for anesthesia in a clinical setting
P12.1.3 Verify the setting of various alarms per hospital protocol
P12.1.4 Prepare the drugs in accordance with a particular type of anesthesia and surgery in a clinical setting
P12.1.5 Prepare equipment for fluid and blood administration for anesthesia in a clinical setting
P12.1.6 Prepare airway equipment for a particular patient and procedure in a clinical setting
P12.1.7 Prepare equipment for invasive monitoring per need in a clinical situation
P12.1.8 Prepare equipment for local or regional anesthesia per need and protocol in a clinical setting

E12.2 Perform pre-anesthetic assessment of airway

P12.2.1 Demonstrate airway management techniques
P12.2.2 Evaluate patient airway prior to induction
P12.2.3 Anticipate when assisted ventilation is required in a clinical setting
P12.2.4 Perform mask/bag assisted ventilation in a clinical setting
P12.2.5 Perform oral pharyngeal airway insertion in a clinical setting

E12.3 Assist with general and regional anesthesia

P12.3.1 Distinguish general from regional anesthesia procedures including clinical indications and contraindications
P12.3.2 Describe complications associated with general and regional anesthesia procedures and corresponding corrective action
P12.3.3 Assess patient general status (ASA status) and verify feasibility of procedure in a clinical setting
P12.3.4 Perform pre-anesthetic procedures as per hospital protocol in a clinical setting
P12.3.5 Assist the anesthesiologist with regional block anesthesia in a clinical setting
P12.3.6 Assist the anesthesiologist during induction of general anesthesia in a clinical setting
P12.3.7 Assess immediate patient response to interventions in a clinical setting

E12.4 Monitor patient/client status intra-operatively and manage symptoms

P12.4.1 Describe physiological monitoring of patients during anesthesia according to CAS guidelines
P12.4.2 Assess and monitor the physiological response to anesthetic and surgical interventions in anesthetized patients in a clinical setting
P12.4.3 Adjust ventilatory parameters in response to physiological reactions or surgical manipulation in anesthetized patients in a clinical setting
P12.4.4 Administer and adjust drugs in anesthetized patients in response to physiological reactions or surgical manipulation per anesthetist instructions
P12.4.5 Adjust fluid and blood administration in anesthetized patients per particular needs and anesthetist instructions
P12.4.6 Record all pertinent observations and data as per hospital protocol in anesthetized patients in a clinical setting
P12.4.7 Recognize the following complications in anesthetized patients in a clinical setting;
  • Changes in oxygenation status – FiO₂ & SpO₂
  • Changes in ventilation status – PIP, ETCO₂
  • Changes in circulatory status due to hypovolemia, anaphylaxis, light patient, MH
P12.4.8 Describe appropriate treatment for complications occurring in anesthetized patients in a clinical setting

E12.5 Monitor patient/client post-operatively and intervene as required

P12.5.1 Describe procedures and techniques associated with emergence from anesthesia, including potential complications and corrective action
P12.5.2 Prepare equipment and patient for emergence from anesthesia in a clinical setting
P12.5.3 Determine timing of emergence from anesthesia with end of surgical procedures in patients a clinical setting
P12.5.4 Assist anesthesiologist during patient emergence from anesthesia in a clinical setting
P12.5.5 Perform immediate and ongoing surveillance of patient response to emergence from anesthesia and intervene as required
P12.5.6 Record all pertinent observations and data as per hospital protocol with respect to emergence and post-operative monitoring in a clinical setting
P12.5.7 Assist with safe patient transport to recovery room in a clinical setting
E12.6 Manage fluid replacement (e.g., crystalloid, blood)

P12.6.1 Describe fluid balance and requirements in anesthetized surgical patients
P12.6.2 Describe clinical indications and complications associated with blood replacement in anesthetized surgical patients, including compatibility testing
P12.6.3 Describe types of fluid/blood replacement
P12.6.4 Evaluate fluid/blood requirements in anesthetized surgical patients in a clinical setting
P12.6.5 Prepare the equipment and material necessary for fluid/blood replacement in anesthetized surgical patients in a clinical setting
P12.6.6 Insert intravenous lines in a clinical setting
P12.6.7 Monitor fluid/blood needs and for potential complications in anesthetized surgical patients in a clinical setting and take corrective action as per anesthesiologist’s instructions
P12.6.8 Record all pertinent observations and data as per hospital protocol with respect to fluid/blood replacement in a clinical setting

E12.7 Recognize complications related to anesthesia (e.g., malignant hyperthermia) and take corrective action

P12.7.1 Describe complications related to anesthesia (e.g., allergies, malignant hyperthermia, hypotension, hypothermia, anaphylaxis, aspiration, air embolus)
P12.7.2 Describe corrective action related to commonly recognized complications related to anesthesia
P12.7.3 Prepare equipment and materiel necessary in anticipation of major complications related to anesthesia (e.g., allergies, malignant hyperthermia, hypotension, hypothermia, aspiration)
P12.7.4 Describe changes to anesthesia management for patients with specific considerations such as: heart disease, the common cold, COPD/asthma, pregnancy, pediatrics and day surgical cases
P12.7.5 Apply hospital protocol in the event of complications related to anesthesia in patients in a clinical setting

E12.8 Provide thermal regulation

P12.8.1 Explain the importance of maintaining thermal regulation during surgical interventions
P12.8.2 Compare techniques and equipment utilized to maintain thermal regulation in anesthetized surgical patients
P12.8.3 Assess need for thermal monitoring and the application of supplemental thermal assistance in anesthetized surgical patients
P12.8.4 Apply procedure to maintain thermal regulation in anesthetized surgical patients in a clinical setting per hospital protocol
P12.8.5 Monitor thermal regulation in anesthetized surgical patient, and take corrective action in the advent of complication
E12.9 Perform patient positioning

P12.9.1 Differentiate between the various surgical positions and influence on anesthetic techniques
P12.9.2 Assist in positioning patient for surgery in a clinical setting
P12.9.3 Monitor patient vital signs and airway during positioning and while in a new position in a clinical setting
P12.9.4 Record patient body position and response during surgical procedure in a clinical setting

E12.10 Assist with anesthetic procedures outside of operating room (e.g., in radiology, magnetic resonance imaging, computed tomography)

P12.10.1 Describe anesthetic procedures infrequently performed outside of the operating room
P12.10.2 Describe recommended precautions per specific location and environment when anesthetic procedure is performed outside of operating room
P12.10.3 Prepare the equipment and material necessary for a specific anesthetic procedure performed outside an operating room in a clinical setting
P12.10.4 Assure patient and personal protection and safety during anesthetic procedures performed outside operating room in a clinical setting
P12.10.5 Assist the anesthesiologist during all phases of anesthetic procedures performed outside operating room in a clinical setting
P12.10.6 Monitor patient during anesthetic procedure performed outside operating room in a clinical setting, with attention to potential complications and apply corrective action
P12.10.7 Record all pertinent observations and data as per hospital protocol with respect to anesthetic procedure outside operating room in a clinical setting

E12.11 Assist with conscious sedation

P12.11.1 Describe conscious sedation anesthesia including its specific applications
P12.11.2 Compare conscious sedation anesthesia with general anesthesia including associated potential complications
P12.11.3 Distinguish between anesthetic drugs commonly utilized in conscious sedation anesthesia
P12.11.4 Prepare the equipment and material necessary a conscious sedation anesthesia for patients per hospital protocol in a clinical setting
P12.11.5 Assess patient general status and verify for quality control of procedure in a clinical setting
P12.11.6 Assist anesthesiologist during conscious sedation anesthesia procedures in a clinical setting
P12.11.7 Monitor patient during conscious sedation anesthesia procedures in a clinical setting, with particular attention to potential complications and apply corrective action
P12.11.8 Record all pertinent observations and data as per hospital protocol with respect to conscious sedation anesthesia
E12.12 Perform conscious sedation as per protocol

P12.12.1 Prepare the equipment and material necessary for a conscious sedation anesthesia in patients per hospital protocol in a clinical setting

P12.12.2 Perform procedures as per anesthesiologist’s instructions for conscious sedation anesthesia in patients per hospital protocol in a clinical setting

P12.12.3 Monitor patient during conscious sedation anesthesia procedures in a clinical setting, with attention to potential complications and apply corrective action

P12.12.4 Respond to potential complications of conscious sedation and apply corrective action

P12.12.5 Record all pertinent observations and data as per hospital protocol with respect to conscious sedation anesthesia