

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 anesthesiologist instructions
- P12.4.5 Adjust fluid and blood administration in anesthetized patients per particular needs and anesthesiologist 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 – FiO_2 & SpO_2
 - Changes in ventilation status – PIP, $ETCO_2$
 - 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
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