

Bronchopulmonary Hygiene

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.10

Perform bronchopulmonary hygiene procedures on patients in a clinical setting

E10.1 Perform sputum induction

- P10.1.1 Explain the purpose and process for sputum induction
- P10.1.2 Select and assemble the equipment including solutions and drugs for sputum induction
- P10.1.3 Prepare patient for sputum induction
- P10.1.4 Identify and manage potential side effects of solutions and/or drugs used for sputum induction
- P10.1.5 Perform sputum induction in a clinical setting
- P10.1.6 Describe the indications and method of performing bronchoalveolar lavage
- P10.1.7 Monitor and document procedure and patient response

E10.2 Perform sputum collection procedures

- P10.2.1 Describe methods and equipment for obtaining a fresh and uncontaminated sputum sample
- P10.2.2 Compare characteristic appearance of sputum samples
- P10.2.3 Identify the factors involved in macroscopic sputum examination
- P10.2.4 Perform sputum collection procedure in a clinical setting including labeling and transfer of sample to laboratory for analysis

E10.3 Perform nasopharyngeal suction therapy

- P10.3.1 Describe the physiological effects of nasopharyngeal suction including indications and contraindications
- P10.3.2 Describe the techniques used in nasopharyngeal suction therapy
- P10.3.3 Describe complications and corrective actions associated with nasopharyngeal suctioning
- P10.3.4 Select and assemble the equipment for nasopharyngeal suction therapy

P10.3.5 Perform and document nasopharyngeal suction therapy in a clinical setting and monitor its outcome

E10.4 Perform oropharyngeal suction therapy

P10.4.1 Describe the physiological effects of oropharyngeal suction including indications and contraindications

P10.4.2 Describe the techniques used in oropharyngeal suction therapy

P10.4.3 Describe complications and corrective actions associated with oropharyngeal suctioning

P10.4.4 Select and assemble the equipment for oropharyngeal suction therapy

P10.4.5 Perform and document oropharyngeal suction therapy in a clinical setting and monitor its outcome

E10.5 Perform endotracheal suction therapy

P10.5.1 Describe the physiological effects of endotracheal suction including indications and contraindications

P10.5.2 Describe the techniques used in endotracheal suction therapy

P10.5.3 Describe complications and corrective actions associated with endotracheal suctioning

P10.5.4 Select and assemble the equipment for endotracheal suction therapy

P10.5.5 Perform and document endotracheal suction therapy in a clinical setting and monitor its outcome

E10.6 Perform tracheostomy/laryngectomy suction therapy

P10.6.1 Describe the physiological effects of tracheostomy/laryngectomy suction including indications and contraindications

P10.6.2 Describe the techniques used in tracheostomy/laryngectomy suction therapy

P10.6.3 Describe complications and corrective actions associated with tracheostomy/laryngectomy suctioning

P10.6.4 Select and assemble the equipment for tracheostomy/laryngectomy suction therapy

P10.6.5 Perform and document tracheostomy/laryngectomy suction therapy in a clinical setting and monitor its outcome

E10.7 Assist with body positioning techniques to facilitate bronchopulmonary hygiene

P10.7.1 Explain the application of body positioning techniques to facilitate bronchopulmonary hygiene

P10.7.2 Distinguish body positions used to facilitate bronchopulmonary hygiene with respect to specific lung segments including potential complications

P10.7.3 Assess patient's need for specific body positioning in a clinical setting

P10.7.4 Assist with body positioning to facilitate specific lung segment hygiene clearance in a clinical setting and monitor outcome

E10.8 Provide humidity therapy using appropriate method

- P10.8.1 Define terminology specific to the application of humidity therapy
- P10.8.2 Explain the respiratory physiological importance of humidity and the significance of a humidity deficit
- P10.8.3 Differentiate between 'cold' and 'heated' humidification with respect to physiology
- P10.8.4 Explain the principle of operation of commonly used humidifiers and delivery systems
- P10.8.5 Describe the factors which affect the efficiency of humidifiers
- P10.8.6 Assess a patient's need for specific humidity therapy in a clinical setting
- P10.8.7 Select and assemble appropriate equipment for humidity therapy in a clinical setting
- P10.8.8 Provide and document humidity therapy to patients in a clinical setting and monitor effectiveness and modify as required
- P10.8.9 Wean patient from humidity therapy in a clinical setting and monitor outcome

E10.9 Perform lung volume recruitment maneuvers

- P10.9.1 Explain the purpose and application of lung volume recruitment maneuvers
- P10.9.2 Describe lung volume recruitment maneuvers
- P10.9.3 Assess patient's need for lung volume recruitment maneuvers in a clinical setting
- P10.9.4 Perform and document lung volume recruitment maneuver in a clinical setting and monitor its outcome
- P10.9.5 Evaluate patient's progress per lung volume recruitment maneuver in a clinical setting

E10.10 Perform assisted cough maneuvers

- P10.10.1 Compare assisted cough maneuvers
- P10.10.2 Instruct patient on assisted cough maneuvers and monitor application in a clinical setting
- P10.10.3 Provide cough assistance to a patient in a clinical setting
- P10.10.4 Evaluate patient's progress per cough assistance in a clinical setting

E10.11 Promote secretion clearance and breathing techniques

- P10.11.1 Describe the importance of effective secretion clearance
- P10.11.2 Compare techniques utilized to promote secretion clearance
- P10.11.3 Instruct patient on effective secretion clearance techniques and monitor its application and outcome in a clinical setting
- P10.11.4 Select where needed the appropriate adjunctive device to assist with secretion clearance (e.g.; PEP device, Flutter[®] valve)
- P10.11.5 Describe the potential benefits of applying controlled breathing techniques
- P10.11.6 Instruct patient on applying effective breathing techniques, document and monitor its application/progress in a clinical setting

E10.12 Teach incentive spirometry

P10.12.1 Summarize the therapeutic and technical application of incentive spirometry

P10.12.2 Assess need for incentive spirometry and prepare patient

P10.12.3 Instruct patient in using incentive spirometry

P10.12.4 Monitor for correct patient's application and progress in a clinical setting
