

Respiratory Care Technology

Objectives: Respiratory Care Technology student should

- a) Perform and assist in respiratory emergency care procedures: ICD insertion, thoracocentesis, intubation, oxygen and aerosol therapy
- b) Perform Peak flow Measurement & monitoring, Spirometry, DLCO, Intra dermal Injection - Mantoux Test, Allergy Skin Prick Testing, Arterial Blood sampling, 6 minute walk test and chest physical therapy
- c) Use dry powder inhalation device, Metered dose inhaler and nebulization
- d) Understand and perform Basic Life Support Skills and Advanced Cardiac Life Support
- e) Have knowledge about Hospital Infection Control procedures

Outcome: After completing three years of Respiratory Care Technology Course the graduate should be able to

- a) Work as skilled Respiratory Care technologist by assisting in emergency care of patients in RICU
- b) Work and contribute in NABH accreditation program

Training Provided

Respiratory Care Procedures:

- Oxygen therapy: oxygen cannula, masks
- Aerosol therapy: nebulization, inhaler devices
- Suctioning and care of artificial airway
- Care of intercostal drain tube
- Insertion of endo tracheal tube (intubation), oro-pharyngeal airway, naso-pharyngeal airway and tracheostomy tube.
- Operating Non-invasive positive pressure ventilator: CPAP, Bi-level CPAP
- Operating Mechanical Ventilator (Invasive Positive Pressure Ventilation)
- Chest Physical Therapy: Airway Clearance Therapy, Lung Expansion Therapy, Respiratory muscle strengthening exercises.
- Care of Ventilated patients

1. Diagnostic Procedures:

- Pulmonary Function Test (PFT): Spirometry, DLCO
- Polysomnography (PSG, Sleep Study)
- Allergy skin testing
- Tuberculin skin testing
- Arterial Blood sampling for Blood gas analysis
- Assisting in Bronchoscopy, Thoracocentesis (pleural fluid aspiration) and Chest tube / intercostal drain tube (ICD) insertion.

Internship Training

Respiratory Care Technology students should be able to perform the following:

1. Emergency care procedures: Oxygen and aerosol therapy
2. Patient care: Positioning, safe transport and oral care
3. Aerosol therapy: Dry Powder inhaler device usage, Metered Dose inhaler device usage and nebulization
4. To perform Peak flow Measurement & monitoring, Spirometry, DLCO, Intra dermal Injection - Mantoux Test, Allergy Skin Prick Testing, Arterial Blood sampling, 6 minute walk test and chest physical therapy
5. Basic Life Support Skills, Advanced Cardiac Life Support
6. Assisting in ICD insertion, thoracocentesis,
7. Insertion of naso-gastric tube, endotracheal tube (intubation), IV catheter, oro-pharyngeal airway, naso-pharyngeal airway and urinary bladder catheter
8. Usage of Cardioversion equipment / Defibrillator