

VALLEYCARE
OLIVE VIEW-UCLA MEDICAL CENTER/HEALTH CENTERS
RESPIRATORY CARE SERVICES - ADULT
POLICY & PROCEDURE

NUMBER: 5854

VERSION: 1

SUBJECT/TITLE: BIPAP/CPAP VENTILATORY SUPPORT SYSTEM

POLICY: With a written order by the patient's physician, the RCP will implement BIPAP per procedure. The order must specify the following:

1. Level of IPAP
2. Level of EPAP
3. F102

PURPOSE: To provide a non-invasive technique to augment breathing, prevent collapse of oropharyngeal, and increase oxygenation, assist in ventilation, and avoid invasive airway intubation.

DEPARTMENTS: RESPIRATORY CARE SERVICES

DEFINITIONS:

PROCEDURE:

INDICATIONS FOR USE:

1. Patients who exhibit medically unacceptable or worsening alveolar hypoventilation, as reflected by an elevated or rising arterial carbon dioxide tension (PaCO₂).
2. Patients with chronic or impending ventilatory muscle fatigue demonstrated by tachypnea, use of accessory muscles, decreased VT and subjective complaints of fatigue.
3. Patients with medically unacceptable hypoxemia despite administration of supplemental oxygen.
4. Patients who develop post-extubation difficulty in whom you wish to avoid reintubation or patients with upper airway obstruction due to such conditions as: laryngeal supra or sub-glottic edema in the post extubation period, inhalation injury, structures of the extra

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thoracic trachea or obstructing tracheal or glottic lesions in whom it is desirable to avoid endotracheal intubations.

CONTRAINDICATIONS:

The following pre-existing conditions may contraindicate the use of BIPAP therapy for some patients:

1. Bullous lung disease
2. Pneumothorax
3. Pathologically low blood pressure
4. Severe cardiac arrhythmias or coronary artery disease
5. Stroke
6. Seizures
7. Pneumocephalus has been reported in a patient using nasal continuous positive airway pressure. Caution should be used when prescribing CPAP for susceptible patients such as those with: CSF leaks, abnormalities of the cribriform plate, prior history of head trauma and or pneumocephalus.

PROCEDURE:

1. Instruct patient in the use of the type of therapy being implemented and what will be expected.
2. Wash hands and assemble equipment.
3. Properly fit patients nasal mask, face mask or full face mask per manufacturer recommendations
4. Turn on BIPAP/CPAP delivery system per manufacturer instructions.
5. Set the IPAP Level
6. Set the EPAP Level
7. Set the FiO₂ as ordered. Some unit requires an external source of O₂ bled in.
8. Check for leaks, adjust mask as necessary.
9. Document procedure in patient's chart.

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References:	
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