

**HACKETTSTOWN REGIONAL MEDICAL CENTER  
CARDIOPULMONARY  
ADULT CPAP/BIPAP**

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**Effective Date: March 2010**

**Policy No: 3B.019**

**Cross Referenced:**

**Origin: Cardiopulmonary**

**Reviewed Date: 3/2010**

**Authority: Cardiopulmonary Manager**

**Revised Date: 12/2012**

**Page: 1 of 2**

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**SCOPE**

All members of the Cardiopulmonary Department

**PURPOSE**

To provide non-invasive ventilation (CPAP and/or BiPAP) via mask to a patient in an attempt to augment a patient's spontaneous respiratory effort.

**UNDER NO CIRCUMSTANCES ARE ANY PATIENTS ALLOWED TO BRING THEIR OWN UNITS TO THE HOSPITAL.**

**DEFINITION**

Non-invasive Positive Pressure Ventilation (CPAP/BiPAP) is designed to be used in an attempt to avoid endotracheal intubation for those individuals that can protect their airway and maintain spontaneous respirations.

**Indications:**

- Acute and chronic pulmonary disorders causing hypercapnic respiratory failure
- Congestive heart failure
- Increased work of breathing
- Severe exacerbations of COPD not requiring mechanical ventilation

**Contraindications:**

- Suspected barotraumas
- Pneumothorax
- Severe cardiac symptoms- hypotension, cardiac arrhythmias
- Inability to protect airway
- Vomiting/nausea
- Facial trauma

**Equipment:**

- CPAP or BiPAP machine
- CPAP/BiPAP mask
- Disposable circuit
- Bacterial filter
- Oxygen tubing/flow meter (if necessary)
- Pulse oximeter

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**Page: 2 of 2**

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**PROCEDURE**

1. Obtain order and settings from physician
2. Using a cleaned CPAP/BiPAP machine, attach bacterial filter, disposable circuit and oxygen tubing (if necessary)
3. Select appropriate size mask for patient
4. Select prescribed setting and appropriate alarms (see manual specific to machine for settings/alarms)
5. Verify function of external alarm
6. Start machine
7. Place mask on patient, observing for leaks and patient comfort
8. Observe patient and make any necessary changes/titration as necessary based on patient comfort, vital signs
9. Monitor vital signs and document on CPAP/BiPAP flow sheet
10. Continue to monitor function of machine, patient and vital signs every 3 hours

**WHEN USED FOR NON-INVASIVE VENTILATION, THE PATIENT MUST BE IN EITHER ICU OR PCU, PROVIDED THE PATIENT RATIO IS APPROPRIATE.**

When used for sleep apnea:

- Use level that patient uses at home, unless changed by physician
- Can be used anywhere in hospital because patient can go on and off at will