

# BIPAP Quick Reference



## What is BIPAP?

### Bi-level Positive Airway Pressure

Non-invasive positive pressure ventilator support is a technology utilized to augment alveolar ventilation for prescribed periods without an artificial airway.



### Common Indications:

- Airway obstruction
- Increased work of breathing due to pulmonary congestion
- Muscle weakness leading to inadequate respirations
- Restrictive lung disease leading to poor lung expansion
- Poor lung compliance leading to poor lung expansion
- Obesity and cardiac failure



### Contraindications:

- Pneumothorax
- No respiratory drive to breath
- Upper gastrointestinal bleeding
- Recent gastric or esophageal surgery
- Tracheostomy or other airway disorders

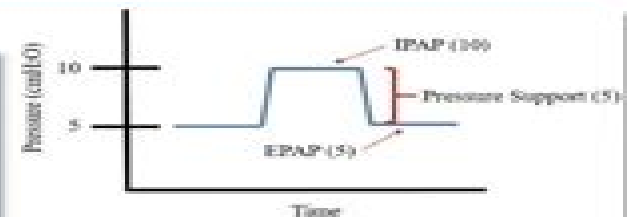
## BIPAP Principles and Operation:



A BIPAP machine is programmed to assist a patient's spontaneous respirations by delivering a flow of air at two different pressures:

1. **IPAP** – Inspiratory Positive Airway Pressure (Positive pressure on inspiration)
2. **EPAP** – Expiratory Positive Airway Pressure (Positive pressure on expiration)

In this way, the BIPAP machine helps the patient to push air and oxygen into their lungs and then helps to maintain airway patency, thereby allowing more oxygen to diffuse to the pulmonary circulation.



## Non-invasive Modes



*The mode controls how the Non-invasive machine works to assist breathing.*

**Spontaneous mode (S):** offers support to the breaths the patient takes on his/her own.

**Continuous Positive Airway Pressure mode (CPAP):** supports spontaneous respirations by providing one continuous positive pressure on inspiration and expiration.

**Spontaneous/Timed mode (S/T):** offers a combination of machine delivered breaths (set respiratory rate) and spontaneous (patient triggered) assisted breaths with two pressure levels.

## BIPAP Settings



**IPAP** – positive pressure generated during inspiration allows the patient to take a deeper breath than they would normally.

**EPAP** – positive pressure generated during expiration helps to splint open the upper airway, maintain the necessary resting volume in the lungs at end of expiration and helps avoid collapse.

**RR** - Respiratory Rate is the number of breaths the machine will deliver regardless of patient effort. If patient goes apneic the set RR will be timed.

**Ti** - Inspiratory Time is the length of time it takes for a "breath" to be delivered.

**Rise Time** - how quickly the BIPAP machine will go from the EPAP to IPAP

# Bipap Vision Quick Start Guide

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## **Bipap Vision Quick Start Guide:**

Non-Invasive Respiratory Support, Third edition Anita K. Simonds, 2012-12-11 The field of non invasive ventilation continues to expand rapidly since publication of the second edition of Non Invasive Respiratory Support new controversies have arisen and numerous practical guidelines have been issued This expanded third edition with new international contributors has been fully revised and updated It builds on the success      **Respiratory Care Clinical Competency Lab Manual** Sandra T Hinski, 2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text

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CPAP and Sleep Apnea - A User's Manual by a User Bruce Stein, Kalamazoo Publishing, 2011-01-17 CPAP and Sleep Apnea A User s Manual By a User is for individuals who have been diagnosed with sleep apnea and use either CPAP or BiPAP It is a very practical guide to improve the ease of day to day use including travel After over 11 years of using BiPAP the author used his medical and research training and the inventiveness of his profession patent law to solve most of the same problems any user encounters which makes the individuals daily use much easier and more therapeutic You don t have to reinvent the best way to use your equipment just follow his advice The very useful topics he covers includes getting the mask to fit properly preventing the tube from getting caught in the sheets and bedding improving the method of connecting the mask to the tube to the point it is so easy it can be done with one hand providing a list of over the counter pharmaceuticals that help you breath better when using CPAP providing a check list for travel of items not used at home but may be needed when traveling so use is as easy as at home regardless of the lodging discussion of humidifier use and tube sheaths developing a method to ensuring that mask and humidifier parts are not left at home when traveling suggestions on washing your mask pieces and tube explaining why to save old tubes and masks for pieces disclosing how to have your CPAP operate normally during power outages and explaining why it is necessary to keep good records In addition the author includes many pictures of how he uses his system when traveling based on his experience in about 35 states as well as foreign travel in the UK France and New Zealand Australia as well as on two cruises

An added extra is the explanation of how the quickie nap refreshes tired sleep apnea individuals and can be worked into a daily routine. It is not a book about the medical aspects of sleep apnea nor about the technical aspects of how CPAP works. It is a book for those who have been diagnosed with sleep apnea and for whom CPAP or BiPAP was prescribed as the recommended treatment.

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