Noninvasive ventilation bi-pap basic use and modes

Abstract
While working in a good hospital setup according to my country standards I realize that few people are well aware of non invasive ventilation and its importance. So I am discussing non invasive BI-PAP ventilation and also describing basic modes.

Keywords: BI-PAP, non invasive ventilations, modes

Introduction
Non invasive ventilation is a type of mechanical ventilation in which we do not use invasive techniques like passing endotracheal tube. It is of two types C-PAP and Bi-PAP I am only discussing later.

In Bi-PAP we give two levels of pressure IPAP and EPAP they are set after assessing patients condition and type of disease. IPAP is basically the positive airway pressure that we give in inspiration and EPAP is expiratory positive airway pressure that prevents our alveoli from collapsing and keep them open. BiPAP basic modes are S, St and T.

Spontaneous mode (S): In s mode all the breaths are patient triggered and cycled. Machine delivers pre set pressure during inspiration and expiration. No automatically delivered breath is inhaled. Pt initiate all the breaths and machine respond to inspiration and expiration.

Spontaneous timed mode (S/TD): In S/TD mode breaths are patient triggered and machine triggered, patient cycled and machine cycled. We set backup breaths and also Ti. If patient do not initiate the breath during the set time then machine automatically delivers the breath.

Timed mode (T): In T mode machine does not rely on patient breath triggering effort. All the breaths are automatically delivered and set. So it is a machine cycled and machine triggered mode.

Bi-PAP ventilation a type of non invasive ventilation have a very important role in preventing patients from invasive ventilation its hazards and complications. Bi-PAP is always preferred over invasive ventilation and is a first step therapy in respiratory failures. It has a major role in acute respiratory failures.

Conclusion
All the modes of bi-pap should be understood and properly used. Awareness related to the use and modes of bi-pap should be spread. This will be beneficial for patients and home care providers.

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Conflict of interest
The author declares no conflict of interest.

References