

Simplifying patient care

Sometimes a complex problem really can have a simple answer. Thanks to advanced, clinically-proven technologies, in one device BiPAP autoSV Advanced makes patient management nearly automatic and provides optimal therapy for even your most complicated sleep-disordered breathing cases. Here's how BiPAP autoSV Advanced takes on some of the most common challenges of managing these complicated patients.

BiPAP autoSV Advanced

Challenge

Solution

Obstructive component

Complex cases of sleep-disordered breathing present with varying degrees of obstructive versus central components. Maintaining a patent airway is vital, but oftentimes very difficult, making for particularly challenging titrations.

Auto EPAP

- Automatically distinguishes between obstructed and clear airway apneas
- Increases EPAP only when necessary to maintain a patent airway
- Automatic adjustment of EPAP simplifies titration and achieves proven efficacy at the minimum pressure levels
- Adapts pressure to your patients' needs as their conditions change (e.g., weight, alcohol use, lifestyle)

Central component

In the presence of central apneas, it is important for the patient to receive sufficient ventilation while still allowing natural pauses in breathing. Care must be taken not to over- or under-ventilate a patient with central apnea.

Advanced back-up rate

- Timing of the back-up breath delivery is calculated to encourage spontaneous breathing at the patient's own natural rate as necessary
- Clinically-proven technology assures therapy is highly synchronous with the patient's spontaneous breathing
- Delivery of automatically calculated back-up breaths has been shown to be effective on a wide variety of complicated sleep-disordered breathing patients.

Unstable breathing

Patients with more complex sleep apnea conditions often demonstrate irregular and unstable breathing patterns. Standard CPAP or bi-level therapies were not designed to treat these patients.

Servo ventilation (SV) algorithm

- Clinically-proven³ SV algorithm monitors peak flow and changes pressure support breath by breath to stabilize the breathing pattern
- By establishing a targeted peak flow, the SV algorithm can rapidly normalize unstable breathing patterns with quick adjustments of pressure support

Patient comfort and compliance

Therapy is only effective if the patient uses it consistently. Unfortunately, exhaling against pressure can be very difficult for many patients.

Bi-Flex technology

- Clinically-proven⁴ way to enhance patient comfort and compliance
- Provides pressure relief during exhalation and at the critical transition points from exhalation to inhalation and back to exhalation
- Makes it easier and more natural for those having difficulty adjusting or adhering to therapy

1 Fietze, I., et al., *Respiration* 2007;74:279-286

2 Mulgrew, A., et al., *Sleep Breath* 2007;11:31-37

3 Arzt, M., et al., *Chest* 2008;134:61-66

4 Ballard, R., et al., *JCSM* 2008;3:706-712