Advancements in Non Invasive Therapy

Infant Flow is clinically proven\(^{(1)}\) in the successful treatment of thousands of patients worldwide. The evolution to Infant Flow SiPAP combined with the patented generator technology designed specifically for infants, provides a complete solution for noninvasive ventilatory support.

Clinically proven technology
- Reduced ventilator days\(^{(2)}\) and extubation failures\(^{(2)}\)
- Improved oxygenation and ventilation in Biphasic mode\(^{(4)}\)
- Improved treatment of apnea of prematurity\(^{(3)}\)
- Provides maximum pressure stability at the lowest work of breathing\(^{(1)}\)

Advanced noninvasive treatment options
- Choice of CPAP, Biphasic or Biphasic I\(^{+}\)
- Use of greatly improved apnea detection and patient synchronization in Biphasic I\(^{+}\)

Safe and Versatile
- Up to 2 hours of battery back up
- SimpleTouch™ operation facilitating ease of use
- Fully integrated patient monitoring for easy patient assessment
- Fully integrated alarm systems for patient safety

\(^{(1)}\) Not available in the United States
Protecting Fragile Lungs

Infant Flow Sipap offers a comprehensive selection of modalities to provide noninvasive ventilatory support to your neonatal patient. These modalities combined with patented generator technology presents the clinician with treatment options to protect the neonate's fragile lungs.

**CPAP**

CPAP is a constant, stable single level positive pressure to the infant's airways facilitating the restoration of functional residual capacity and the correction of hypoxemia. CPAP modality has been used for many years worldwide for noninvasive-respiratory support and the prevention of intubation.

**Inspiratory Flow**

The flow provided by the Infant Flow Sipap™ driver is accelerated in the twin injector nozzles of the Infant Flow™ Generator. When the patient makes a spontaneous inspiratory effort, the Infant Flow™ Generator converts the kinetic energy of the flow to pressure, thereby reducing the work of breathing for the patient and maximizing pressure stability at the patient interface.

**Expiratory Flow**

When the patient makes a spontaneous expiratory effort, they apply a pressure at the nasal interface of Infant Flow™ Generator. This causes the flow to flip around towards the expiratory limb. Stable NCPAP pressure is maintained throughout expiration with a low work of breathing as flow is diverted away from the patient. While expiratory effort stops, the flow instantly flips back to the inspiratory position.

**Biphasic**

Biphasic is a timed, level pressure increase above baseline CPAP. Small incremental pressure increases of 2-3 cmH2O augment functional residual capacity and can offload respiratory work of breathing. Biphasic has been shown to improve oxygenation and ventilation (4) compared to CPAP.

**Biphasic tr**

Biphasic tr is a noninvasive synchronized nasal intermittent positive pressure ventilation (SNIPPV) support modality that allows clinicians to provide respiratory support without the need for an intubated tube. SNIPPV decreases ventilator days by giving the clinician the ability to potentially prevent intubation or the option to extubate early (5) thereby decreasing the risks associated with intubation.

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References


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*Not available in the United States