

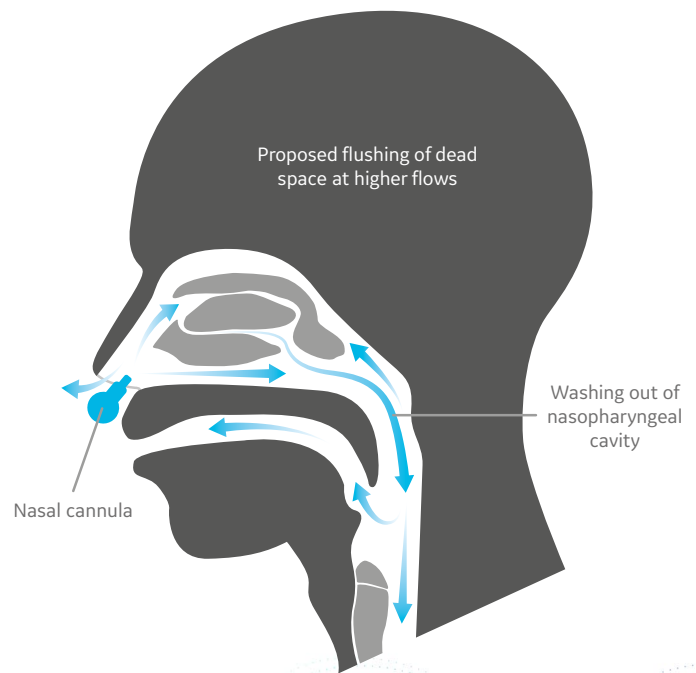


O₂ Therapy Mode CARESCAPE™ R860 Ventilator

Simplify set-up for high flow oxygen therapy

The use of supplemental oxygen is a first line treatment for patients experiencing hypoxemic respiratory failure.¹ Typically, oxygen administration is provided by different devices such as a nasal cannula, venturi mask, simple mask or a non-rebreathing mask. The oxygen delivered is usually minimally humidified using a bubble humidifier or none at all. This can create poor patient tolerance and complaints due to oxygen's drying nature.

In recent years, high flow oxygen therapy has become an alternative to conventional/low flow oxygen therapy due to its heated, humidified oxygen that is capable of generating flow rates up to 60 L/min. This creates a number of physiological benefits for the patient, which can be lost with conventional, low flow oxygen therapy.



Physiological Benefits of O₂ Therapy includes:¹

- **Pharyngeal dead space washout:** generates a reservoir of oxygen that minimizes CO₂ rebreathing
- **Reduction in work of breathing:** minimizes the inspiratory resistance of the upper airway with gas flows that match or exceed a patient's peak inspiratory flow which decreases work of breathing
- **PEEP effect:** High Flow O₂ Therapy can generate positive airway pressures between 2.7 cm H₂O and 7.4 cm H₂O
- **Release of a constant fraction of inspired oxygen:** minimized oxygen dilution with room air, delivered FiO₂ closely corresponds to set FiO₂
- **Improvement of mucociliary clearance and patient comfort:** Provides effective humidification and warming for effective clearance of secretions. Reduces dryness in upper airways, which can improve patient comfort

Clinical uses:

- Hypoxemic Respiratory Failure
- Post-extubation
- Pre-oxygenation/intubation
- Bronchoscopy and other invasive procedures
- Palliative care
- Acute Heart Failure

The O₂ Therapy mode of the CARESCAPE R860 Ventilator was designed for optimal usability. The pressure bar graph that is displayed during mechanical ventilation modes is a helpful indicator of circuit pressure. The display also includes FiO₂ and Flow trend lines, so that clinicians can track changes over time. And for continuity of care, historical views will include data from patients who were transitioned from mechanical ventilation to O₂ Therapy.



Display screen showing CARESCAPE R860 O₂ Therapy mode.

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1. Renda T. *et al.* High-flow nasal oxygen therapy in intensive care and anaesthesia. *British Journal of Anaesthesia*. 2018; 120(1): 18-27.