SUPERNO$_2$VA® ET MASK AND SYSTEM

# The SuperNO$_2$VA® Et mask and system and mask are designed to:

Maintain upper airway patency, decrease incidence of hypoxemia[1,2], and consistently and accurately capture end tidal CO_2 from either the mouth or nose.

The SuperNO$_2$VA® Et system includes the mask, 2 L hyperinflation bag, and other accessories including a gas sampling line, delivering positive pressure while providing access to the oral cavity.
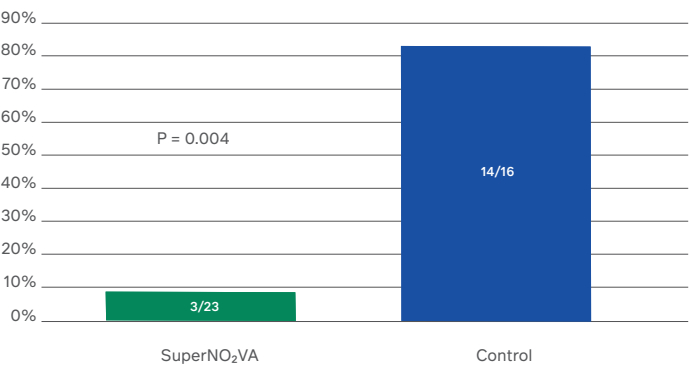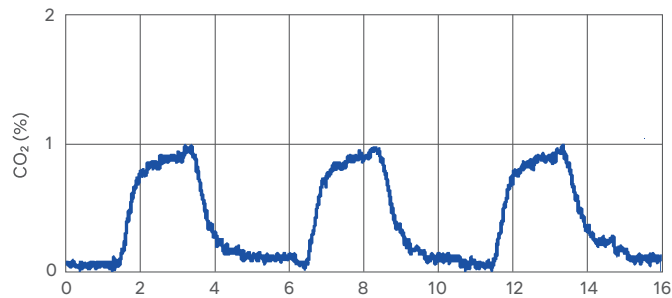
DECREASED INCIDENCE OF HYPOXEMIA
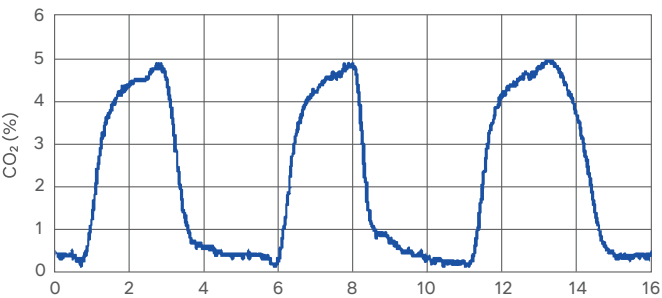
Incidence of Hypoxemia[1]

P = 0.004

SuperNO$_2$VA: 3/63
Control: 16/73
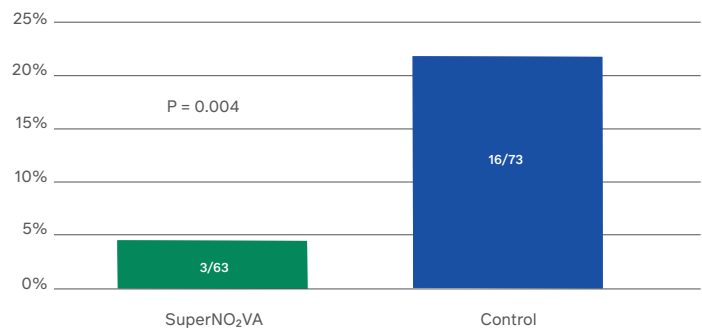
Incidence of Hypoxemia[2]

P = 0.004

SuperNO$_2$VA: 3/23
Control: 14/16

1% CO_2 Delivered to Subject

5% CO_2 Delivered to Subject

1. Zeping Xu. Comparison of oxygenation and ventilation in patients undergoing colonoscopy during anesthesia using the SuperNO2VA™ nasal PAP ventilation device vs. routine care: A prospective randomized trial.
2. Francesca Dimou. Nasal positive pressure with the SuperNO2VA device decreases sedation-related hypoxemia during pre-bariatric surgery EGD. Surgical Endoscopy 2019;

AirLife

Confidently maintain airway patency and monitor ventilation throughout the perioperative experience.

SAMPLING ETCO$_2$ WITH SUPERNO$_2$VA® ET:

· Continuously captures expired CO$_2$

· Simultaneously switches from nasal or oral sampling

· Accurately detects hyper/hypoventilation, apnea, and other pathologies

SuperNO$_2$VA Et accurately and consistently measures EtCO$_2$ from the mouth and the nose:

· Virtually all CO$_2$ that was delivered was captured on exhalation

· 0.04% absolute error in capture over a wide range of oxygen flow rates, respirator rates, and tidal volumes

SuperNO$_2$VA Et tested at various O$_2$ flow rates, respiratory rates, and tidal volumes mean ± standard deviation results

INPUT CO$_2$	CAPTURE CO$_2$	CAPTURED CO$_2$ DEVIATION MEAN	STANDARD DEVIATION
1%	0.96 – 1.01%	0.01	± 0.05
5%	4.86 – 5.00%	0.08	± 0.07

The SuperNO$_2$VA Et mask and system treat upper airway obstruction and optimize both oxygenation and ventilation in sedated and general anesthesia patients. The SuperNO$_2$VA Et mask and system can sample expired gases from the patient's oral and/or nasal cavities.

SuperNO$_2$VA® Et Competitive Advantage

|	NASAL CANNULA	HIGH-FLOW NASAL CANNULA	ANESTHESIA MASK	NASAL CPAP	SUPERNO$_2$VA ET
Oral Access	●	●	○	●	●
Passive Oxygenation	●	●	●	●	●
High Flow O$_2$	○	●	○	○	●
Rescue Ventilation/RC	○	○	●	○	●
Nasal and/or Oral CO$_2$ Capture	◐	●	○	○	●
Additional Capital Equipment	Not Required	●	Not Required	●	Not Required

PRE-OP

INTRA-OP

POST-OP

- EGD/TEE
- Colonoscopy
- Bronchoscopy
- Fiboptic Intubation
- Laryngoscopy
- MRI
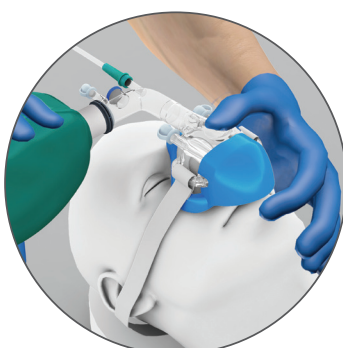
Used to maintain O$_2$ saturation
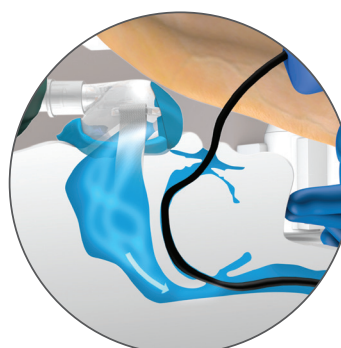
Deep sedation and intra-oral
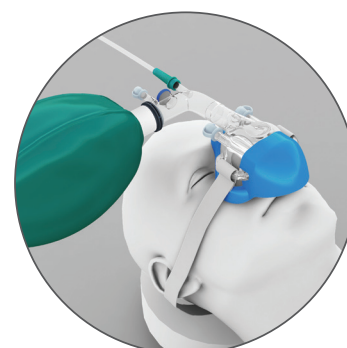
Provides positive pressure in the PACU

Benefits

- Pre-oxygenation
- Relieve upper airway obstruction
- Assist and monitor ventilation
- Rescue ventilation
- Use during oral procedures
- Use in transport

BRO-20042-C1 Rev1