

BALLARD™ RESTORE2

SINGLE USE | STERILE

Restore2 is a novel ET Tube Clearing Catheter that restores ET Tube performance to nominal conditions by clearing tenacious secretions and biofilm from the inside of the ET Tube. This significantly reduces airway resistance and the patient's work of breathing, improving patients' chances of passing their Spontaneous Breathing Trial (SBT). Daily use in conjunction with standard of care protocols may allow the patient to be liberated from the vent sooner, and has been shown to decrease costs associated with hospital care according to some studies^{1,6,7}



Wiper balloon positioned for deployment



Wiper balloon deployed for cleaning



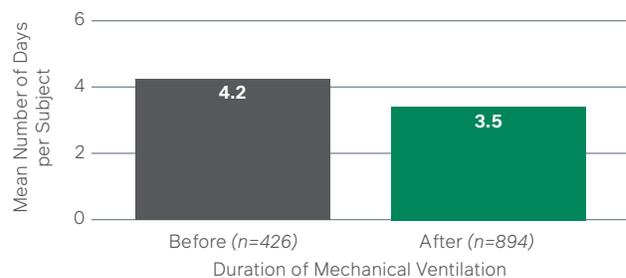
Unique radially-expanding wiper balloon clears the inside of the ET tube

FEATURES

- Compatible with standard closed suction systems and endotracheal tube sizes 7.0–8.5
- Y adapter enables wiping procedure to be performed while the patient is being ventilated
- Length-limited catheter avoids insertion more than 1–2 cm beyond the ETT tip on standard length tubes
- Catheter features atraumatic silicone tip design
- Protective sheath helps prevent exposure to secretions
- Depth markers on the catheter guide appropriate insertion

References: 1. Wicker B., Schofield L., Salem G., A Five Year Study to Evaluate Cleaning Endotracheal Tube Prior to Weaning Trials, AARC Annual Meeting (Indianapolis, IN) October 4-7, 2017. 2. Schofield L., et. al., Comparison of Two Endotracheal Tube Cleaning Devices in Reducing Airway Resistance for the Mechanically Ventilated Patient, Poster, AARC (Tampa, FL) November 9, 2015. 3. Mietto C. et. al., High-Resolution Computer Tomography in Assessing Endotracheal Tube Obstruction, Poster, SCCM Annual Meeting (San Juan, PR) January 19-23, 2013. 4. Schofield L., The endOclear® Liberator® Cleaning Device in Decreasing Airway Resistance, AARC Annual Meeting (Indianapolis, IN) October 4-7, 2017. 5. Schofield L., et. al., The Impact of Unique Airway Clearance System on Airway Mechanics in Ventilated Patients, Poster (McLaren Northern Michigan Hospital) 6. Schofield L., Saur G., The Use of the endOclear Catheter Device to Improve Ventilator Weaning, Chest 2013; 144:64A. 7. Solis, M., Schofield, L., Use of endOclear® Restore Device to Decrease ICU Ventilator Days, ATS Annual Meeting (Washington D.C.) May 19-23, 2017

DAILY CLEARING OF THE ET TUBE RESULTS IN A DECREASE IN AVERAGE VENT DAYS.³



Study objective: Evaluate the efficacy of cleaning the ETT daily with the Restore2 prior to the spontaneous breathing trial. Design: 1,320 patients in a five-year, retrospective, observational, single centered study Primary endpoints: Average duration of mechanical ventilation, average hospital length of stay, and average hospital direct cost per subject. Results: Decreased average time on the ventilator from 4.2 to 3.5 days (0.7±0.8, p<0.01).

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ITEM	DESCRIPTION	PK
01-EC-350-0001	Ballard Restore2, 7.0–8.5 mm ETT	10