NEXT STANDARD OF CARE IN HAI PREVENTION CeraShieldTM BIOFILM-RESISTANT ENDOTRACHEAL TUBE

Designed to reduce ventilator associated respiratory infections (VARI) and significantly lower overall cost of care



The CeraShield TT is approved for marketing in Canada and Belize with other approvals pending. The CeraShield TT is an investigational device in the United States

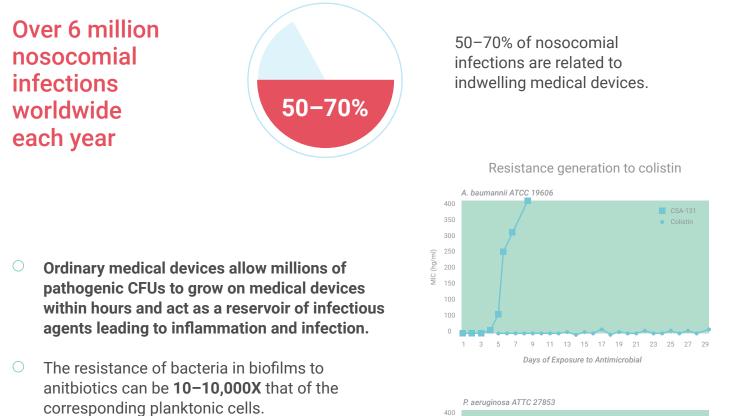
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CeraShield[™] ETT

MEDICAL DEVICE-ASSOCIATED BIOFILMS POSE A SERIOUS THREAT TO HUMAN HEALTH, AND LEAD TO NOSOCOMIAL INFECTIONS

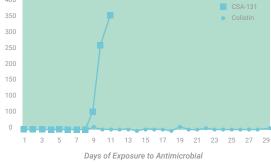
New strategies are urgently needed

Up to 80% of microbial infections in the human body involve biofilm formation, especially in hospital settings, which greatly promotes incidence and mortality.



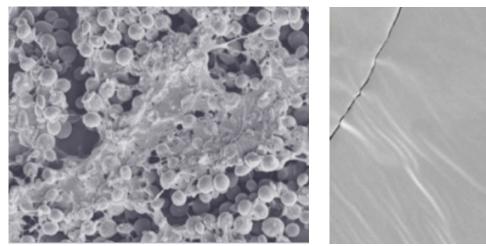
AIC

 The rates of horizontal plasmid tranfser were several orders of magnitude higher in the biofilms than in liquid cultures of the same organisms.



CeraShield[™] biofilm-resistant coating works to prevent infection and inflammation

Ordinary ETT

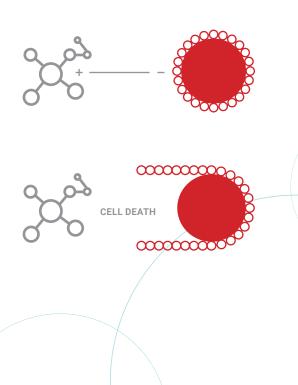


CeraShield[™] Biofilm-Resistant ETT

Scanning electron micrographs show CeraShield[™] coating prevents lethal biofilm formation

CeraShield[™] coating mimics the activity of the human body's innate immune system, which does not induce antimicrobial resistance (AMR).

- 1 Creates hydration layer that inhibits bacterial adhesion to the surface, creating a "moat" around the device.
- 2 The CeraShield[™] Coating's net positive charge attracts the negatively-charged membranes of certain viruses, fungi, and bacteria.
- As the CeraShield[™] Coating and pathogen get closer together, the CeraShield[™] Coating begins to permeabilize and depolarize the cell membrane, leading to rapid cell death.



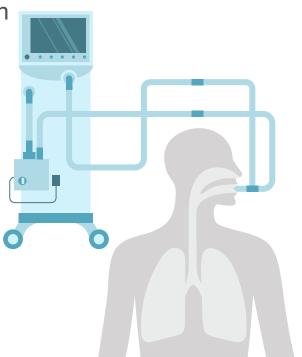
BIOSCIENCES

VENTILATOR-ASSOCIATED PNEUMONIA: WHAT IS THE REAL COST?

Each added case of ventilator respiratory infection adds between \$10,000-\$45,000 (US).

The total preventable cost worldwide is >\$10 billion.

9–13% attributable risk of **death**





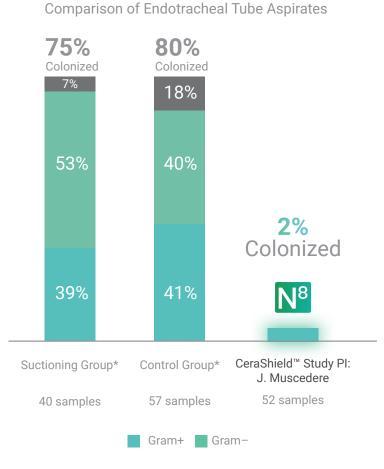
Approximately 50% of all critical care antibiotics are for treatment for VAP² up to **25**

prolonged ICU stay¹

up to
22
days

prolonged **hospital** stay³ INTRODUCING THE PROPRIETARY CERASHIELD[™] COATED BACTERIA--RESISTANT ENDOTRACHEAL TUBE

By preventing biofilm, we can signicantly prevent VAP and other adverse outcomes.



Girou, E., Buu-Hoi, A., Stephen, F. et al. Airway colonization in long-term mechanically ventilated patients. Intensive Care Med 30, 225-233 (2004). https://doi.org/10.1007/s00134-003-2077-4

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ENDOTRACHEAL TUBE SIZE	N8 PRODUCT CODE
7.0 mm	18170
7.5 mm	18175
8.0 mm	18180
8.5 mm	18185

INDICATION

The CeraShield[™] endotracheal tube to be used for airway management in adult patients expected to be intubated ≥ 24 hours.

The CeraShield[™] ETT consists of:

- A standard adult cuffed ETT manufactured and sourced from Flexicare offered in sizes 7.0mm – 8.5mm.
- A hydrophilic anti-fouling coating on the inner and outer lumens, and the inflatable cuff.



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