

# Prevention of Noscomial Related Infections Including Ventilator Associated Pneumonia

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## Technology description

"This invention is a new multifunctional device for prevention of a variety of hospital-acquired infections including ventilator associated and aspiration pneumonia, urinary tract and catheter related infections. It consists of disposable materials embedded with anti-infective agents designed to be used in conjunction with current medical products. This invention allows for flexibility in its clinical use because it is widely adaptable to existing catheters and tubing. For example, in one form this device acts as an adjunct to standard endotracheal tubes (ETT) allowing it to serve as a means to reduce accumulation of secretions, act as a mechanical barrier to leakage of secretions around the ETT and provide continuous antimicrobial delivery to the oropharynx and periglottic area. Additionally, the device could allow for continuous delivery of anesthetic to the oropharynx and periglottic area allowing for the reduction in systemic sedation and thus reducing the time spent under mechanical ventilation. This technology can also be applied to intravenous and urinary catheters to prevent infections. "

## Institution

[Virginia Commonwealth University](#)

## 联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com