

# Hi-Lo Evac® Endotracheal Tube

WITH EVACUATION LUMEN

## A simple and effective method for reducing VAP.

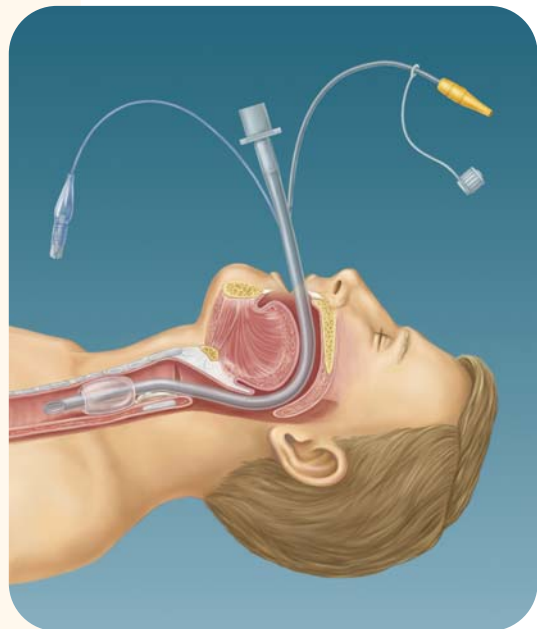
Ventilator-associated pneumonia (VAP) is considered one of the most serious and costly hospital-acquired infections. In the U.S., VAP is estimated to result in \$1.5 billion in excess expenditures and 1.75 million additional hospital days each year.<sup>1</sup>

### Suctioning subglottic secretions can help prevent VAP.

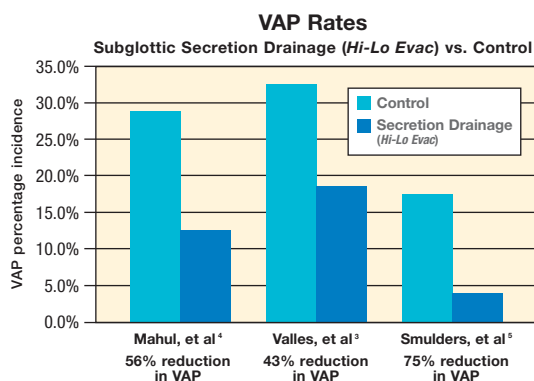
In mechanically ventilated patients, subglottic secretions pool above the endotracheal (ET) tube cuff, where they can contaminate the lower respiratory tract and cause pneumonia.<sup>2</sup> Continuous removal of these secretions has been shown to reduce the incidence of VAP.<sup>3</sup>

### The Hi-Lo Evac ET Tube makes it easy.

With its integral suction lumen and evacuation port, the *Mallinckrodt® Hi-Lo Evac®* endotracheal tube from Nellcor provides a safe, convenient way to suction the subglottic area above the ET tube cuff. Studies have documented that use of the *Hi-Lo Evac* ET tube in place of standard ET tubes has reduced the incidence of VAP by up to 75%.<sup>3</sup>



Contaminated secretions enter the large evacuation port near the cuff and are removed through the suction lumen, which connects to wall suction.



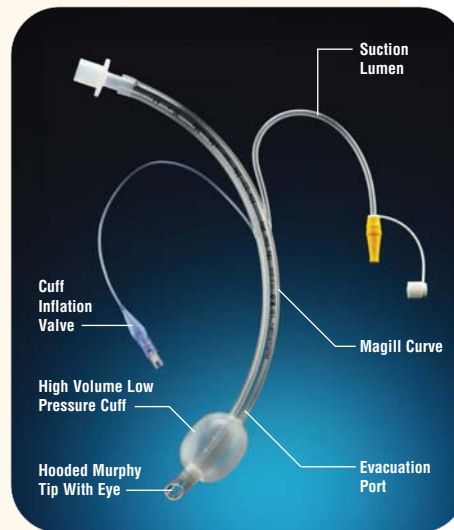
Three randomized, controlled studies compared VAP rates when continuous subglottic drainage (*Hi-Lo Evac*) was performed vs. standard procedures with conventional ET tubes (control). In each study, the number of VAP cases was dramatically reduced with use of the *Hi-Lo Evac* ET tube.

# Hi-Lo Evac Endotracheal Tube

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## Make a difference for your patients.

- The only device shown to effectively remove subglottic secretions on a continuous basis.
- Integral suction lumen avoids trauma to the vocal cords often associated with manual catheter suctioning.
- Use of the *Hi-Lo Evac* ET tube has been shown to reduce or delay the onset of VAP.<sup>3-5</sup>
- By reducing the incidence of VAP, the *Hi-Lo Evac* ET tube may reduce hospital costs and improve outcomes.



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## Ordering Information

Description	Size		Catalog Number
	I.D. (mm)	O.D. (mm)	
<i>Hi-Lo Evac</i> Endotracheal Tube with Suction Lumen (10/box)	6.0	9.0	124160
	6.5	9.8	124165
	7.0	10.4	124170
	7.5	11.2	124175
	8.0	11.8	124180
	8.5	12.6	124185
	9.0	13.1	124190

1. Wilbin R: Nosocomial Pneumonia. In: Wenzel R, ed. *Prevention and Control of Nosocomial Infections*. Baltimore, MD: Williams and Wilkins; 1997:807-819.
2. American Thoracic Society. Consensus statement: Hospital-acquired pneumonia in adults: diagnosis, assessment of severity, initial antimicrobial therapy, and preventative strategies. *Am J Respir Crit Care Med*. 1996;151:1711-1725.
3. Valles J, Artigas A, Rello J, et al. Continuous aspiration of subglottic secretions in preventing ventilator-associated pneumonia. *Ann Intern Med*. 1995;122:179-186.
4. Mahul P, Auboyer C, Jospe R, et al. Prevention of nosocomial pneumonia in intubated patients: respective role of mechanical subglottic secretions drainage and stress ulcer prophylaxis. *Intensive Care Med*. 1992;18:20-25.
5. Smulders K, et al. A randomized clinical trial of intermittent subglottic secretion drainage in patients receiving mechanical ventilation. *Chest*. 2002;121:858-862.