VAP is a major clinical concern...associated with high incidence rates, mortality and costs\(^5\)

Micro-aspiration is a major cause of VAP\(^1\)

- Hospital-associated pneumonia patients have a mortality rate of 20% to 33\(^\circ\), with each incidence generating an increased cost of € 13,000 to € 26,000 (€ 12,500 to € 25,000).\(^3\)
- Up to 28% of critical care patients may develop VAP\(^1\)
- Approximately 86% of hospital-associated pneumonia is linked with mechanical ventilation\(^6\)
- VAP prolongs a patient’s stay in the ICU by an average of 4-6 days\(^3\)
- Micro-aspiration of potentially infectious secretions through gaps in the endotracheal tube cuff is known to be a leading cause of VAP\(^1\)

KimVent* MICROCUFF* Provides A Superior Tracheal Seal\(^3,4\)

Featuring a revolutionary cuff designed to allow channels to “self-seal” and provide better contact with the tracheal contour, KimVent* MICROCUFF* Endotracheal Tubes provide superior protection against fluid leakage. The better the seal, the less micro-aspiration, the lower the risk of VAP.
Proven to Reduce Leakage

The cuff seal of an endotracheal tube is the final barrier that protects the lungs from aspiration of potentially infectious pharyngeal secretions. When intubated, conventional high volume, low pressure (HVLP) PVC cuffs create channels that permit fluid leakage through the cuff and into the lungs.

Freely unfolded HVLP cuff circumference is larger than trachea

**KimVent** MicroCuff Endotracheal Tube:

(CT Scan transversal of an inflated KimVent MicroCuff in an excised animal trachea, cuff pressure: 20cm H2O)

Note the absence of visible channel openings in the KimVent MicroCuff tube

KimVent MicroCuff tube has advanced microthin polyurethane cuff material that allows the channels to “self-seal,” reducing the possibility of leakage.

**KimVent** MicroCuff Endotracheal Tube:

(CT Scan transversal of an inflated HLVP PVC cuff in an excised animal trachea, cuff pressure: 20cm H2O)

Conventional HVLP PVC cuffs create folds when inflated, causing channels to form and allowing fluid to leak past

Note the prominent visible channel formations in the HLVP PVC cuff
KimVent* MICROCUFF* Endotracheal Tubes for Adults

The better the seal, the less micro-aspiration, the lower the risk of VAP

Designed for better contact with tracheal contour

Longer length and cylindrical shape of the cuff are designed to provide better contact with the tracheal contour, providing increased protection against fluid leakage.

KimVent* MICROCUFF* Endotracheal Tubes:

✓ Feature an advanced microthin polyurethane cuff material
  • May reduce micro-aspiration of potentially infectious pharyngeal secretions –
    Potentially lowers risk of VAP in prolonged ventilation
  • Thinner material allows for greater visualization of vocal cords when cuff is deflated
  • Provides an effective seal at low pressure

✓ Polyurethane can be made thinner and still maintain its strength²
  • Polyurethane (10 microns) cuff membranes are much thinner than conventional PVC cuffs (50-80 microns)
  • Puncture strength of KimVent* MICROCUFF* tube is almost double compared to conventional cuffs²
  • Burst pressure of KimVent* MICROCUFF* tube is more than double compared to conventional cuffs²

“Use of the Microcuff, Polyurethane Cuffed Endotracheal Tubes was associated with a 43% decrease in the rate of VAP” ⁷

— Study results from the University of Michigan Health System, May 2009

Solutions – Helping You Protect Your Patients From VAP
As a global leader in VAP prevention, Kimberly-Clark offers a comprehensive range of products, education, in-service training, and compliance programs to assist you as you develop your best-practice protocol that can help protect your patients from VAP.

Kimberly-Clark® KimVent® VAP Solutions:
Closed Suction Systems
Endotracheal Tubes
Bronchial Aspirate Sampling Catheter
Oral Care Solutions

For more information, please call your Kimberly-Clark sales representative, or visit our website at: www.VAP.kchealthcare.com/ETT

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Infection prevention website:
www.HAIwatch.com

2. Data on file. Roswell, GA KCWW.
7. M A Miller, MD, J L Arndt, BS, CIC, M Konkle, MPA, RRT, C E Chenoweth, MD, T J Iwashyna, MD, PhD, K R Raherty, MD, MS and R C Hysy, MD. University of Michigan Health System, Division of Pulmonary and Critical Care Medicine. A polyurethane cuffed endotracheal tube (PUC-ETT) was associated with decreased rates of Ventilator Associated Pneumonia

“On in-vitro experiments show the recently introduced KimVent* Microcuff* tube cuff to be the only HVLP endotracheal tube cuffs that effectively prevents fluid leakage around the tracheal tube when cuff pressure was set to 30 cm H2O or less”

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