YOUR PARTNER IN PREVENTING INFECTIONS IN INTUBATED PATIENTS
HOSPITAL-ACQUIRED INFECTIONS (HAI) - A MAJOR CLINICAL CONCERN

• In Europe, HAI (Hospital-Acquired Infections) cause 16 million extra days of hospital stay and 37 000 attributable deaths (and contribute to an additional 110 000). Associated costs: approximately € 7 billion annually.¹

• Pneumonia is the main HAI ranging between 25-50% of total cases.²

• Approximately 86% of hospital-associated pneumonia is linked to mechanical ventilation¹⁵

• VAP (Ventilator-Associated Pneumonia) attributable mortality: between 7% and 30%¹; excess costs: € 16-33K³ per case; excess hospital length of stay: up to 14 days⁴

INFECTION PREVENTION IS A MULTI-FACETED APPROACH¹⁶

VAP is the most common and fatal infection of the ICU. There are various potential sources of infection that are believed to increase the risk of VAP:

• Oral cavity
• GI colonisation and reflux
• Subglottic secretions

• Inhalation of pathogens
• Patient-to-patient
• Contaminated equipment
• Breaking ventilator circuit

CONSISTENT COMPLIANCE WITH CLINICAL GUIDELINES CAN HELP REDUCE VAP⁵

“Reducing mortality due to VAP requires an organized process that guarantees early recognition of pneumonia and consistent application of the best evidence-based practices.”⁶

– Institute for Healthcare Improvement

PREVENT CONTAMINATION
• Infection Control
• Disinfection and sterilisation
• Care and maintenance of equipment and devices

REDUCE COLONISATION
• Oral hygiene
• Nasal hygiene
• Common suction protocol

• Closed suction rinse protocol, when closed suction system is used

• Condensation traps
• Stress ulcer prophylaxis

REDUCE OR PREVENT ASPIRATION
• Elevate head of bed 30-45°
• Tracheal seal designed to reduce micro-aspiration
• Cuff pressure maintenance

• Enteral feeding/preventing gastric distention or reflux
• Subglottic suction

BOOST DEFENSES
• Oral vs. nasal tube placement
• Ventilator weaning or discontinuation
• Vaccination
• 9 out of 10 clinicians agree that HALYARD® Oral Care q4 Kit encourages oral frequency
• Helps promote compliance to protocol
• Innovative self-cleaning covered Yankauer (featuring technology from Ballard®)
• Easy to use succioning toothbrush

"Good oral hygiene measures help reduce the number of colonized bacteria in the mouth and prevent the spread of infection from the oral cavity to the lower respiratory tract."8,9

• Closed suction systems reduce the opportunity for contamination to occur from outside pathogens, thus reducing the bacterial colonisation within the circuit11

"The pathogenesis of VAP...is linked to two separate but related processes: colonisation of the aerodigestive tract with pathogenic bacteria, and aspiration of contaminated secretions."12 — Kollef, et al. Respiratory Care, 2005

HALYARD® ORAL CARE SOLUTIONS
HALYARD® ORAL CARE Q4 KIT AND INDIVIDUAL COMPONENTS
Conveniently packaged oral care kits and systems — designed by nurses for nurses, providing consistent and comprehensive oral care

HALYARD® CLOSED SUCTION SYSTEMS WITH BALLARD® TECHNOLOGY
The HALYARD® Turbo-Cleaning Catheter with turbulent cleaning action reduces bacterial colonisation by 89% compared to standard closed suction systems10

Multi-Access Port enables a closed system during diagnostic procedures

One-way lavage port designed to prevent “sprayback”

Hinged Valve “PEEP Seal” isolates catheter tip

Turbulent Cleansing Chamber creates cleansing action, resulting in a cleaner catheter

Self-cleaning, covered Yankauer with PEEP seal technology
**ENDOTRACHEAL TUBES**

**HALYARD® MICROCUFF® SUBGLOTTIC SUCTIONING ENDOTRACHEAL TUBES**

*Provide an effective tracheal seal designed to reduce micro-aspiration — a known cause of VAP*[^15^](#)

- Combine more effective subglottic suctioning with our advanced MICROCUFF® polyurethane cuff technology to provide an effective protection against micro-aspiration[^13,14^](#)
- More effective at preventing and clearing clogs. Thanks to saline rinsing, improved fit and seal of polyurethane cuff, subglottic suctioning is easy and smooth[^13,14^](#)

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**ENDOTRACHEAL TUBES**

**HALYARD® MICROCUFF® ENDOTRACHEAL TUBES**

- HALYARD® MICROCUFF® Endotracheal Tubes feature an advanced microthin polyurethane cuff
- The cylindrical shaped polyurethane cuff provides a superior tracheal seal for a wider range of trachea sizes and cuff sealing pressures compared to leading PVC cuffed tubes

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**DIAGNOSTIC CATHETERS**

**HALYARD® MINI-BAL SAMPLING CATHETER**

*Enables early, accurate diagnosis of VAP providing accuracy similar to bronchoscopic Broncho-Alveolar Lavage*

- Simple, effective bronchoalveolar lavage at the bedside
- Allows safe BAL high yield samples within a short period of time
- Provides safety and accuracy to clinicians where bronchoscopy is not readily available

[^15^]: Provides an effective seal at low cuff pressure, reducing risk of tracheal trauma

[^13,14^]: Radiopaque soft, atraumatic directional tip allows right or left lung sampling
Customers around the world choose Halyard Health because of our clinically-superior products, purposeful innovation, remarkable service and deep expertise. It’s what we call the HALYARD ADVANTAGE*.

KNOWLEDGE NETWORK* CLINICAL EDUCATION

- Trusted partners in your continued medical education and training
- On-site representative facilitated programs
- Advanced and most current education modules on infection prevention
- Clinical studies, case studies, in-service videos, product training and education information – all to help you in your commitment to preventing infection

KNOWLEDGEABLE CUSTOMER SUPPORT

- In-service training
- Product technical support
- Knowledgeable customer service

EXPERT SALES FORCE

- Healthcare industry expert sales force
- On-site trained in hospitals

COMPLIANCE TOOLS & BEST PRACTICES

- Utilisation reviews
- Product use and selection tools
- Best practices/ industry guidelines

CLINICAL RESEARCH

- Staff medical professionals to advise and direct clinical research
- Peer-to-peer consultation

PURPOSEFUL INNOVATION

- Ongoing research and development delivering industry-defining solutions to today’s clinical issues

COMMITMENT TO EXCELLENCE
Halyard Health is a medical technology company focused on preventing infection, eliminating pain and speeding recovery. Just as a halyard fuels forward movement, Halyard Health’s clinically-superior products and remarkable service help to advance health and healthcare worldwide.

References:

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