Canadian edition

stryker

Hospital-acquired pneumonia (HAP)

In a multistate prevalence study, HAP was found to be one of the most prevalent healthcare-acquired infections (HAIs), accounting for 25% of HAIs. Of those HAIs, 65% were non-ventilator HAP (NV-HAP).1

65%

35%

#4HA

Hospital-acquired infection in Canada²

80%1 hospital admissions may be at a higher risk for HAP³

of admission, the normal oral flora changes to include respiratory pathogens not normally found in healthy individuals4

Every **4-6** hours 20 billion **bacteria** replicate in the oral cavity⁵

Patients with NV-HAP:

5x

more likely to require a ventilator6

16%

average **mortality rate**⁷

The cost of HAP:

\$40,000-\$65,000 usp

estimated cost per case²

\$46M CAD

annual cost to the Canadian healthcare system⁹

Professional guidelines

ADA evidence-based protocol¹⁰

Brush two - four times a day

- Use a **soft bristled** toothbrush
- Use plaque-removing toothpaste
- Use sodium bicarbonate
- Use a nonpetroleum-based moisturizer

Dependent patients

- Use 24-hour suction toothbrush kits for high aspiration-risk patients
- Use a soft bristled toothbrush

Edentulate patients (2 times a day)

- For patients with dentures, remove and soak dentures
- Brush gums and mouth
 Prevent patients from sleeping with dentures in place

AACN guideline recommendations⁴

Brush four times a day (after each meal, before bedtime)

- Use a **soft bristled** toothbrush
- Use an alcohol-free antiseptic oral rinse
- Use non petroleum-based moisturizer
- Use therapeutic toothpaste

Dependent patients

• Brush with a **suction toothbrush**

Edentulate patients

 If no teeth or dentures, gently brush gums, tongue four times a day

Continuum of care: HAP reduction initiative



One Canadian hospital's findings in one year:8

in HAP cases

65%**1**

in length of stay when a patient developed HAP

All hospital patients are at risk⁶

Address the risk factors associated with pneumonia throughout the continuum of care:



Reorder #6424-0

Reorder #6306-C

Reorder #6080-C

Mouth Moisturizer Hydratant buccal

Reorder #6083-C

References: 1. Magill S, et al., Multistate Point-Prevalence Survey of Health Care-Associated Infections. N Eng J Med. Mar 2014;370(13):1198-1208. 2. Hospital Harm Improvement Resource, Pneumonia, The Canadian Patient Safety Institute, April, 2016. 3. Quinn B, Baker DL, Cohen S, Stewart JL, Lima CA, Parise C. Basic Nursing Care to Prevent Nonventilator Hospital-Acquired Pneumonia. Journal of Nursing Scholarship. 2013;46(1):1-9. 4. Vollman K, Sole ML, Quinn B. Procedure 4 - Endotracheal Tube Care and Oral Care Practices for Ventilated and Non-ventilated Patients. In: AACN Procedure Manual for High Acuity, Progressive, and Critical Care. 7th Edition. Vol 37. 2nd ed. ELSEVIER. 5. Quinn B, Baker DL. Comprehensive oral care helps prevent hospital acquired nonventilator pneumonia representation. Procedure Manual for High Acuity, Progressive, and Critical Care. 7th Edition. Vol 37. 2nd ed. ELSEVIER. 5. Quinn B, Baker DL. Comprehensive oral care helps prevent hospital acquired nonventilator pneumonia representation. Proceedings of the process of th