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

180% hospital admissions may be at a higher risk for HAP²

Within 48 hours of admission, the normal oral flora changes to include respiratory pathogens not normally found in healthy individuals³

Every 4–6 hours 20 billion bacteria duplicate in the oral cavity⁴

<table>
<thead>
<tr>
<th>Areas in the hospital where patients are most likely to acquire non-vent pneumonia:⁵</th>
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<tbody>
<tr>
<td>1 Medical surgical</td>
</tr>
<tr>
<td>2 Intensive care</td>
</tr>
<tr>
<td>3 Telemetry</td>
</tr>
<tr>
<td>7 VAP</td>
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</tbody>
</table>

Patients with NV-HAP:

5x more likely to require a ventilator⁶

16% average mortality rate⁵

The cost of NV-HAP:

19.3% of patients are readmitted for pneumonia within 30 days⁵

$39,897 estimated Acute Care cost per case⁷
Professional guideline:

**AACN guideline recommendations**

**Brush four times a day**
(i.e. 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

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**Continuum of care: HAP reduction initiative**

One hospital’s findings in 1 year:
- **49% less likely** to acquire NV-HAP
- **60 NV-HAP cases avoided**
- **$2.28M Return on investment (ROI)**

More than 2 years of data:
- **70% ↓ in NV-HAP cases**
- **31 lives saved**
- **$5.9M Return on investment (ROI)**

Post-op pneumonia outcomes in 1 year:
- **75% ↓ in post-op pneumonia cases**
- **86 cases avoided**
- **$3.4M saved on post-op pneumonia treatment**

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**All hospital patients are at risk**

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

- **Pre-surgical**
- **Ventilated**
- **Non-ventilated**
  - Dependent
  - Independent

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**References:**

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