## Reference List

### General

References follow the table:

**Association between improved hand hygiene practices and rates of nosocomial infections**

<table>
<thead>
<tr>
<th>Year</th>
<th>Authors</th>
<th>Hospital</th>
<th>Significant Results</th>
<th>Duration of follow</th>
</tr>
</thead>
<tbody>
<tr>
<td>1977</td>
<td>Casewell and Phillips</td>
<td>Intensive care for adults</td>
<td>Reduction of NIs caused by <em>Klebsiella spp.</em></td>
<td>2 years</td>
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<tr>
<td>1982</td>
<td>Maki and Hecht</td>
<td>Intensive care for adults</td>
<td>Reduction in HAI rates</td>
<td>Not Specified</td>
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<tr>
<td>1984</td>
<td>Massanari and Hierholzer</td>
<td>Intensive care for adults</td>
<td>Reduction in HAI rates</td>
<td>Not Specified</td>
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<tr>
<td>1989</td>
<td>Conly et al.</td>
<td>Intensive care for adults</td>
<td>Reduction in HAI rates</td>
<td>Not Specified</td>
</tr>
<tr>
<td>1990</td>
<td>Simmons et al.</td>
<td>Intensive care for adults</td>
<td>No effect (improving hand hygiene did not reach statistical significance)</td>
<td>11 months</td>
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<tr>
<td>1992</td>
<td>Doebbeling et al.</td>
<td>Intensive care for adults</td>
<td>Significant difference between hand hygiene agents in respect of different rates of IN</td>
<td>8 months</td>
</tr>
<tr>
<td>1994</td>
<td>Webster et al.</td>
<td>Neonatal Intensive Care Unit</td>
<td>Suppression of MRSA, in association with multiple other infection control measures. Reduced use of vancomycin</td>
<td>9 months</td>
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<tr>
<td>1995</td>
<td>et al.</td>
<td>Nursery</td>
<td>Suppression of MRSA, in association with multiple other infection control measures</td>
<td>3.5 years</td>
</tr>
<tr>
<td>2000</td>
<td>Larson et al.</td>
<td>Intensive medical care unit / neonatal intensive care unit</td>
<td>Significant relative reduction (85%) in the rate of VRE in hospital intervention, no significant evolution of MRSA</td>
<td>8 months</td>
</tr>
<tr>
<td>2000</td>
<td>Pittet et al.</td>
<td>Entire hospital</td>
<td>Significant reduction in the overall prevalence rate of NI and MRSA, active surveillance cultures and contact precautions for have been implemented during the same period</td>
<td>5 years</td>
</tr>
<tr>
<td>2003</td>
<td>MacDonald et al.</td>
<td>Entire hospital</td>
<td>Significant reduction of cases of MRSA contracted in hospital</td>
<td>Not Specified</td>
</tr>
<tr>
<td>2004</td>
<td>Swoboda et al.</td>
<td>Intermediate Care Unit for adults</td>
<td>The reduction of NI did not reach statistical significance.</td>
<td>2.5 months</td>
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<tr>
<td>2004</td>
<td>Lam et al.</td>
<td>Neonatal Intensive</td>
<td>No significant reduction in HAI rates</td>
<td>6 months</td>
</tr>
</tbody>
</table>
IN = nosocomial infection
Staphylococcus aureus MRSA = methicillin-resistant
VRE = vancomycin-resistant enterococcus
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[Table 1.19.1]

General references

- Pittet D, Boyce JM. Hand hygiene and patient care: Pursuing the Semmelweis legacy. Lancet Infect Dis. 2001 April:9-20. (Full text available)
- Pittet D. Clean hands Reduce the Burden of Disease. Lancet. 2005; 366:185-7. (Full text available)

Hand sanitizer Alcohol-based

- Grayson ML, Melvana S, Druce J, Barr IG, Ballard SA, Johnson PD, Mastorakos T, Birch C. Efficacy of soap and water and alcohol-based hand-rub preparations Against


- Boyce JM, Kelliher Valland N. Skin irritation and dryness associated With Two hand-hygience regimens: soap and water hand washing versus hand antisepsis With an alcoholic hand gel. Infect Control Hosp Epidemiol. 2000, 21:442-448. (Abstract only)

See also references listed under “Guidelines” below.

Hand sanitizer Alcohol-based Fire Hazard


- Prasad R, Z. Quezado St Andre A, O'Grady NP. Fires In The Operating Room and Intensive Care Unit: Awareness Is the Key to Prevention. Anesth Analg. 2006; 102 (1):172-4. (full text available)


Hand sanitizer with alcohol and blood alcohol in the blood

- **Kramer A Below H Bieber N, et al.** Quantity of ethanol absorption after excessive hand disinfection using Three Commercially available hand rubs IS minimal and below toxic for human Levels . BMC Infect Dis. 2007, 7:117. ( full text available )
- **Miller MA, Rosin A, Crystal CS.** Alcohol -based hand sanitizer : can frequent use cause elevated blood alcohol level a year ? J Infect Control. 2006, 34 (3) :150-1. ( Abstract only )

Hand sanitizer Alcohol-based and religious or cultural objections


Observation


Infection and Quality of Life


• Stelfox HT, Bates DW, Redelmeier DA. Safety of patients isolated for infection control. JAMA. 2003, 290(14):1899-905. (Full text available)


Fingernails / rings

• Fagernes M Lingaas E. Impact of finger rings are transmission of bacteria Düring hand contact. Infect Control Hosp Epidemiol. 2009, 30(5):427-32. (Abstract only)


- Wyns CA, Samstag DE, Lapp AM. Bacterial carriage on the fingernails of OR nurses. AORN J. 1994, 60 (5):796,9-805. (Abstract only)

Gloves


Guidelines / Best Practices


• **Provincial Infectious Diseases Advisory Committee.** Hand Hygiene Best Practice Document, ON: Queen's Printer for Ontario, 2009. (full text available)

• **CHICA-Canada Standards and Guidelines Core Committee.** Hand hygiene. Can J Infect Control. 2008 Summer; 23 (2): 114, 116-7. (full text available)


• **Larson EL, D. Quiros Lin SX.** Dissemination Of The CDC’s Hand Hygiene Guideline and impact are infection rates. Am J Infect Control, 2007, 35 (10):666-75. (Abstract only)


• **Health Canada Laboratory Centre for Disease cons .** Division of nosocomial infections and labor. Routine practices and additional precautions for preventing transmission of infections within healthcare facilities. Can Commun Dis Rep. 1999, 25 Suppl 4:1-142. ( full text available )

### Economic cost of infections


• **Vonberg RP , Reichardt C, Behnke M, Schwab F, Zindler M, Gastmeier P.** Costs of nosocomial Clostridium difficile -associated Diarrhoea . J Hosp Infect . 2008 Sep ; 70 (1) :15-20. ( Abstract only )


• **Kim T , Oh PI, Simor AE.** The economic impact of methicillin-resistant Staphylococcus aureus in Canadian Hospitals. Infect Control Hosp Epidemiol. 2001, 22 (2) :99-104. ( Abstract only )


### Social marketing and behavior modification

• **Morris ZS. Clarkson PJ.** Does social marketing Provide a framework for Changing healthcare practice ? . Health Policy. 2009, 91 (2) :135-41. ( Abstract only )
- Jenner EA, F. Jones Fletcher BC, L. Miller Scott GM. Hand hygiene posters: Selling the message. J Hosp Infect. 2005, 59 (2) :77-82. (Abstract only)

Identification Style