



# Healthcare-Associated Infections (HAIs) Cost Calculator

HAIs take their toll in countless ways — including financially — on acute care hospitals.

As part of our commitment to infection prevention, we have created this calculator as a tool to evidence acute care facilities' potential savings if HAI rates are reduced. Research suggests that implementing a multitiered approach (such as that recommended by APIC), including — but not limited to — staff education, antibiotic stewardship and surface disinfection using a 1:10 dilution of sodium hypochlorite bleach (consistent with CDC Guidelines) can help to significantly decrease HAIs.

	Example	Your Organization
<b>HAI incidence per 1,000 patient days<sup>1</sup></b>	<b>9.3</b>	<input type="text"/>
	<b>X</b>	<b>X</b>
<b>Mean attributable costs of HAIs<sup>2</sup></b>	<b>\$13,973-\$15,275</b>	<b>\$13,973-\$15,275</b>
<b>Estimated cost to facility per 1,000 patient days</b>	<b>= \$129,949-\$142,057</b>	<input type="text"/>
	<b>X</b>	<b>X</b>
<b>Potential decreases in HAI cases<sup>3</sup></b>	<b>Up to 83%</b>	<b>Up to 83%</b>
<b>Potential savings</b>	<b>= \$107,858-\$117,907</b>	<input type="text"/>



Please visit our Healthcare resource center at [www.cloroxhealthcare.com](http://www.cloroxhealthcare.com) for more Infection Prevention training tools.

Note: The potential decrease cited in HAI cases reflects that there is a range of prevention outcomes, based on the nature and compliance to a multimodal approach. Peer-reviewed, published studies have demonstrated success in controlling outbreaks involving Norovirus and VRE and significant decreases (up to 83%) involving CDI. This range has been reinforced by Harbarth.<sup>4</sup>

1. Klevens RM, Edwards JR, Richards CL, Horan T, Gaynes R, Pollock D, Cardo D. Estimating health care-associated infections in US Hospitals, 2002.
2. Stone PW, Larson E, Kawar LN. A systematic audit of economic evidence linking nosocomial infections and infection control interventions: 1990-2000. *Am J Infect Control* 2002; 30: 145-152 Roberts, RR, Scott, RD II, Cordell, Solomon SL, Steele L, Kampe LM, Trick WE, Weinstein RA. The use of economic modeling to determine the hospital costs associated with nosocomial infections. *Clinical Infectious Diseases* 2003; 36:1424-32.
3. Johnston et al, "Outbreak Management and Implications of a Nosocomial Outbreak" *Clinical Infectious Diseases* 45:534 Eckstein et. al, "Reduction of

- Clostridium difficile* and vancomycin-resistant Enterococcus contamination of environmental surfaces after an intervention to improve cleaning methods" *BMC Infectious Diseases*, 7:61. 2007. Use of hypochlorite solution to decrease rates of *Clostridium difficile*-associated diarrhea. 2007.
- McMullen KM, Zack J, Coopersmith CM, Kollef M, Dubberke E, and Warren DK. *Infect Control Hosp Epidemiol* 28:205-7 Environmental Control to Reduce Transmission of *Clostridium difficile*. 200. Mayfield JL, Leet, T, Miller J and Murdy LM. *Clin Dis* 31:995-1000.
4. Harbarth S, Sax H, Gastmeier P. The preventable proportion of nosocomial infections: an overview of published reports. *J Hosp Infect* 2003;54"258-266.

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