



KEY POINT SUMMARY

OBJECTIVES

The objective of this study was to assess short- and long-term effects of an infection prevention promotion program on healthcare personnel hand hygiene behaviors.

DESIGN IMPLICATIONS

The display of campaign material and signage as well as information kiosks should be accommodated during the design phase as well as the selection of furniture, finishes, and equipment. Alcohol-based hand-rub dispensers should be installed throughout the hospital at entrances to all patient rooms, between patient beds, and in designated public areas.

Infection Prevention Promotion Program Based on the PRECEDE Model: Improving Hand Hygiene Behaviors Among Healthcare Personnel

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Key Concepts/Context

Hand hygiene is critical to prevent transmission of multidrug-resistant organisms and the development of healthcare-associated infections, yet compliance with recommendations is poor.

Methods

Hospital healthcare personnel at a tertiary care academic center participated in a time series design to test a multimodal program that included a multimedia communications campaign, education, leadership engagement, environment modification, team performance measurement, and feedback. Healthcare personnel hand hygiene practices were measured via direct observations over a three-year period by “undercover” observers.

Findings

The data analysis revealed significant improvements in all units and services in the hospital that coincided with implementation of the various program components. There is a lack of data related to patient outcomes.



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Limitations

The importance or relative contribution of the individual components to the overall improvement in hand hygiene could not be assessed. Generalizability is limited by the single case-study design, design focus and adapting new design principles based on systems engineering, human factors, and patient safety culture principles.