

SOLUTION OVERVIEW

Hand Hygiene Compliance Monitoring

Increase compliance rates to reduce risk of healthcare-associated infections

AeroScout[®]



Solution Benefits

- **Enhances patient experience and staff productivity** by automating monitoring and eliminating manual observation
- **Delivers comprehensive and reliable data**—driving hand hygiene accountability to the unit and caregiver level
- **Provides visual analytics** that enable a better understanding of compliance and help identify educational opportunities
- **Ultimately reduces likelihood** of healthcare-associated infections

Challenges

From the World Health Organization (WHO) to the Centers for Medicare and Medicaid Services (CMS), governing bodies around the world have sent healthcare providers a clear message: Clean hands save lives. Hand hygiene among clinicians plays a crucial role in reducing healthcare-associated infections (HAIs)—which claim the lives of about 100,000 patients each year in the United States alone. By some estimates, failure to comply with simple handwashing procedures contributes to about half of those deaths.

To combat the problem, the Joint Commission National Patient Safety Goal (NPSG) 7 states, “An organization should assess its compliance with the CDC and/or WHO guidelines through a comprehensive program that provides a hand hygiene policy, fosters a culture of hand hygiene, and monitors compliance and provides feedback”.

A manual approach to monitoring staff in clinical areas isn’t the best approach to the baseline—or ongoing—assessments. Data can be inaccurate, incomplete or unduly influenced. The process itself can be disruptive to care delivery and patient experience. And it makes it difficult to identify trends at the unit or caregiver level.

Solution

STANLEY Healthcare’s AeroScout[®] Hand Hygiene Compliance Monitoring Solution overcomes the host of challenges associated with manual monitoring—giving healthcare providers an automated solution that supports better day-to-day compliance, enables visual analytics for process improvement and, ultimately, empowers providers to reduce the likelihood of HAIs.

The solution automatically detects whether staff members wash their hands as they enter and exit patient rooms. In addition to capturing a wealth of reliable, objective data, it provides powerful visual analytics. These dashboards empower facilities to track and continually improve compliance rates—targeting staff education and training where it will have the greatest impact.

How It Works

The heart of the solution is the STANLEY Healthcare MobileView® Platform. Using a hospital's existing Wi-Fi infrastructure, the solution combines Wi-Fi badges worn by caregivers, excimers embedded in soap, gel and foam dispensers, and excimers in patient rooms. These components work in concert to automatically capture data about hand hygiene compliance. No human observation. No manual data entry. No impact on care delivery or patient experience.

The solution automatically identifies when a caregiver enters a room. When handwashing occurs, the dispenser triggers the caregiver's staff badge to send an event to the MobileView Visibility and Analytics Platform over the Wi-Fi network. When the caregiver washes his or her hands upon exiting the patient room, another event is logged, and room exit is triggered.

Analytics

Unlike manual monitoring, STANLEY Healthcare's Hand Hygiene Compliance Monitoring delivers powerful visual analytics—facilitating in-depth analysis and understanding of compliance by role, location, time and individual. It transforms vast quantities of complex data into intuitive management dashboards that provide real-time visibility into system-wide hand hygiene compliance rates. It also helps clinical managers identify gaps—including specific staff members or units requiring further education.

Using the dashboards, infection control managers and teams can better assess process improvement opportunities, as well as identify optimal placement of dispensers. Above all, the visual analytics help to reduce the likelihood for infection transmission and cross-contamination via healthcare workers' hands—properly supporting the drive to reduce the incidence of HAIs.



FACILITY-WIDE HAND HYGIENE COMPLIANCE

Visualize the compliance rate across the entire facility by time of day and date, including unit-by-unit comparisons. Infection preventionists and risk managers can see the whole picture of compliance as well as easily understand the impacts of intervention actions taken.



UNIT-LEVEL HAND HYGIENE COMPLIANCE

See a detailed comparison of overall hand hygiene compliance rates by role, time of day and date for a specific unit. Unit supervisors and staff can see near-real-time compliance at the staff member level, helping ensure rates are as high as possible.



STAFF-LEVEL HAND HYGIENE COMPLIANCE

Dive into unit-specific hand hygiene compliance by staff demographics. The main graph shows wash-in, wash-out and total compliance rate for all staff members of a unit. In another view, it's easy to isolate an individual staff member to show performance—identifying opportunities for training and improvement.

Staff	Staff Role	Last Location	Opportunities	Compliance Rate
BE329	Charge Nurse	Cardiology/Nurse	716	72%
CI094	RN	Cardiology/G29	706	78%
FS043	Float Pool PCA/Tech	Out of Unit	4	0%
MD119	RN	Cardiology/G33	737	81%
SC734	RN	Out of Unit	31	32%
MS712	RN	Cardiology/Break RM	1,312	87%
LP095	PCA/Tech	Cardiology/G10	2,009	91%
LS824	RN	Out of Unit	844	48%
MMS70	RN	Cardiology/Break RM	1,324	48%
PF255	Charge Nurse	Out of Unit	586	38%
RT07	Respiratory Therapy	Out of Unit	1	0%
RT872	Respiratory Therapy	Out of Unit	1,856	63%
SC837	PCA/Tech	Cardiology/G10	1,189	92%

LEADERBOARD HAND HYGIENE COMPLIANCE

Promote healthy competition between caregivers to improve compliance. Compliance data is shown by role, room and date. Staff can get visual feedback of their own compliance, including their rank relative to peers and benchmarks. It also shows the last known location of staff, so they can be found quickly if needed.



About STANLEY Healthcare

Over 15,000 hospitals and senior living communities rely on STANLEY Healthcare solutions to empower caregivers to deliver better care. STANLEY Healthcare is a part of Stanley Black & Decker and a proud supporter of the Alzheimer's Association®. Learn more at stanleyhealthcare.com.