

Solution Overview:

Hand Hygiene Compliance Monitoring

Increase Compliance Rates to Reduce Risk of Healthcare-Associated Infections and Enhance Patient Safety

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 requires hospitals to perform an accurate “baseline assessment of hand hygiene in order to identify opportunities for improvement.” 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—as well as opportunities to better educate clinicians about hand hygiene.

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 or not 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.



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

How It Works

The heart of the solution is the STANLEY Healthcare MobileView® Visibility and Analytics 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 Solution 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 clearly 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' hand—properly supporting the drive to reduce the incidence of HAIs.

REAL RESULTS

- **Eliminate Manual Observation:** accurate, comprehensive and real-time data aided the nurturing of a hand hygiene compliance culture
- **Compliance Improvement:** accomplished individual compliance rates of greater than 90%, and a 58% relative improvement in overall compliance
- **Visual Analytics:** Leaderboard creates healthy competition, driving accountability to the caregiver level



The solution comes with a variety of compact Wi-Fi and ultrasound staff badges that can be worn on badge clips, lanyards or wristbands.

*“We chose to partner with STANLEY Healthcare because its AeroScout solution provided us with the means to **build on our existing ‘Culture of Compliance’** and support key patient safety initiatives.*

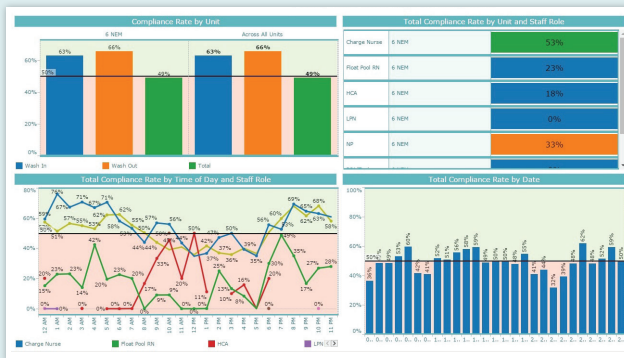
*The ability of the solution to **capture virtually every hand hygiene event and present compliance data in visual form** gives our nurses, managers and infection preventionists an **important tool to see and improve performance.***

*- Jamie Fortenberry, RN, MSN
Director Nursing Unit, Cardiology I
Huntsville Hospital*

Visualize. Analyze. Transform.

STANLEY Healthcare's MobileView® Analytics platform delivers visual dashboards that show opportunities to improve performance, raise awareness and foster accountability. The Hand Hygiene Compliance Monitoring Analytics package includes four core dashboards that can be used daily, weekly or monthly to monitor—and continuously improve—compliance with hand hygiene practices.

Facility-wide Hand Hygiene Compliance



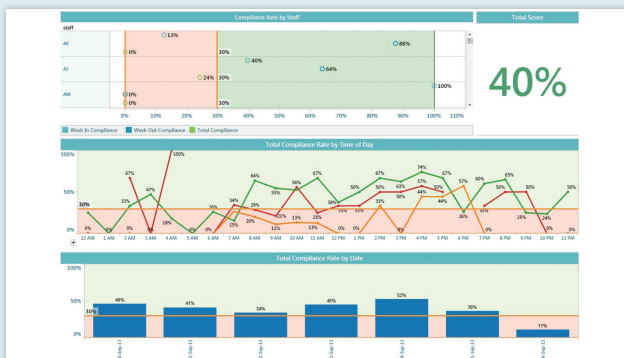
Visualize the compliance rate across the entire facility by time of day and date, including unit-by-unit comparisons. Infection preventionists and risk managers can see the whole picture of compliance as well as easily understand the impacts of intervention actions taken.

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 that rates are high as possible.

Staff-level Hand Hygiene Compliance



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

Leaderboard Hand Hygiene Compliance

Staff	Staff Role	Last Location	Opportunities	Compliance Rate
BB329	Charge Nurse	Cardiology/Ward	716	92%
CH894	RN	Cardiology/ICU	786	78%
PC343	Float Pool PCA/Tech	Out of Unit	4	1%
HD119	RN	Cardiology/ICU	737	61%
JC234	RN	Out of Unit	31	52%
NP712	RN	Cardiology/Stroke RN	1,372	67%
LP605	PCA/Tech	Cardiology/ICU	2,009	51%
LS524	RN	Out of Unit	844	48%
NP570	RN	Cardiology/Stroke RN	1,324	49%
PP255	Charge Nurse	Out of Unit	586	58%
RT67	Respiratory Therapy	Out of Unit	1	1%
RT672	Respiratory Therapy	Out of Unit	1,816	55%
SC837	PCA/Tech	Cardiology/ICU	1,189	45%
SH372	LPN	Cardiology/ICU	892	52%
SE725	NP	Cardiology/Office	58	58%
SS912	RN	Cardiology/Ward	631	45%

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

Solution Highlights

- Automated 24/7 monitoring of hand hygiene events and opportunities—ensuring that data is current, accurate and reliable
- Easy-to-use solution with no disruption to routine patient care workflows
- Full integration with leading hand hygiene dispensers
- Ability to leverage existing Wi-Fi network for hospital-wide coverage and visibility
- Sophisticated dashboards for analyzing and optimizing hand hygiene compliance
- Unified enterprise platform offering a number of advantages, including visual analytics, interoperability, scalability and lower total cost of ownership
- Opportunities to extend into other applications for Patient Flow, Nurse Call Integration, Asset Management, Environmental Monitoring, Infant Protection and Staff Security/Safety



SMARTLINK™ LTX™ and TFX™ dispensers



Next Gen Touch-Free and NEXA dispenser

STANLEY Healthcare works with leading hand hygiene partners to deliver a customized, fully integrated solution.

About STANLEY Healthcare

STANLEY Healthcare provides over 5,000 acute care hospitals and 12,000 long-term care organizations with enterprise solutions that transform safety, security and operational efficiency. The STANLEY Healthcare solution set enables customers to achieve organizational excellence and superior care in five critical areas: Patient Safety, Security & Protection, Environmental Monitoring, Clinical Operations & Workflow and Supply Chain & Asset Management. These solutions are complemented by consulting, training, implementation and integration services. STANLEY Healthcare is proud to be part of Stanley Black & Decker, Inc. For more information, visit www.stanleyhealthcare.com.

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