Med**Sense**™

www.generalsensing.com

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General Sensing's flagship product, MedSense, is a powerful hand hygiene compliance monitoring solution that positively promotes proper hand hygiene while effortlessly integrating with hospital operations.

Seamless Integration with a Healthcare Worker's Daily Routine

Using MedSense requires no extra effort on the part of your staff. The MedSense Badge, which can be worn in the same style as a standard identification card, automatically captures and uploads hand hygiene performance data in near-real time without disrupting hospital operations.

Accurate, Near-Real Time Compliance Monitoring

General Sensing's patent-pending wireless technology and peer-reviewed, proprietary algorithms offer you continuously updated compliance data that you can trust.[1]

Easy and Straightforward Installation

General Sensing designed MedSense to have zero impact on your hospital's information technology systems. Wireless communication between all MedSense devices ensures that there is no need for any major changes to your facility's infrastructure.

Powerful Web Application

With MedSense HQ, you and your hospital will be equipped with a powerful suite of tools and metrics to help promote and reward a culture of proper hand hygiene.

Individual, Unit, and Facility-Wide Monitoring

With MedSense, your staff will have access to their own hand hygiene performance results, empowering them with individualized feedback and establishing an atmosphere of personal achievement and friendly competition. For infection control practitioners and hospital administrators, unit-level and facility-wide compliance monitoring provides actionable information to help identify which units and departments may need additional compliance training.

[1]Cheng et al. Introduction of an electronic monitoring system for monitoring compliance with Moments 1 and 4 of the WHO "My 5 Moments for Hand Hygiene" methodology. BMC Infectious Diseases. 2011 May 11:151. PubMed PMID: 21612666
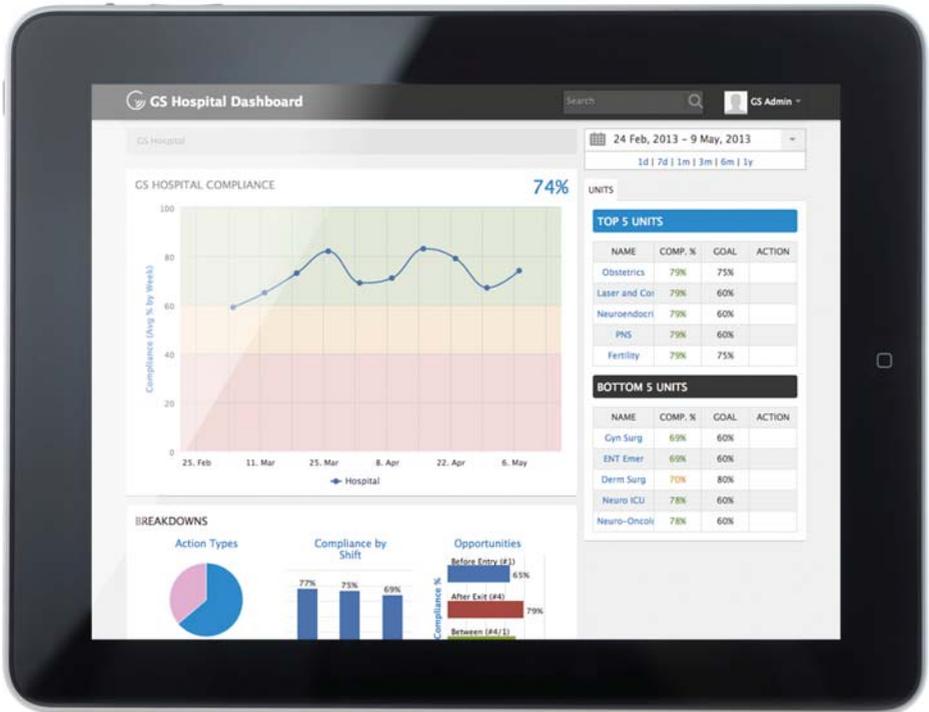
Med**Sense** Features

- Peer-reviewed and bed-level accuracy

- Easy and straightforward installation

- Simple, uninterrupted compliance monitoring

- International award-winning design

- Risk network analysis to identify infection hotspots and performance bottlenecks

- Customizable in-unit dashboards to display compliance data

- Real-time reminders to practice hand hygiene when appropriate

- Adaptable to any type of soap or alcohol dispenser

- Complete access to individual compliance data

- No interference with Wi-Fi resources

- Real-time locating

- Asset tags

- Workflow analysis and optimization

The MedSense product family, winner of the iF Product Design Award 2013 in the medicine/health+care category.

Med**Sense** HQ

Administrator dashboard

MedSense HQ, our state-of-the-art web-based reporting tool, is an integral part of the MedSense solution because it provides critical information to promote and sustain better healthcare and hand hygiene. Built with the latest web standards and technology, MedSense HQ provides a fast, intuitive, and visual way to understand hand hygiene compliance throughout the hospital without needing any additional software components beyond a modern Internet browser.

MedSense HQ provides several ways to extract all available information including an export tool and Application Programming Interface (API) so that such information may be embedded into dashboards and reports and allows other compatible systems to share information with MedSense HQ. MedSense HQ provides visibility down to individual healthcare workers and individual beds, allowing informed decisions to increase compliance. For example, if a single bed is identified as a poor performer, changing the alcohol dispenser layout may address any performance issues. Also, MedSense HQ can identify specific job roles for additional training and provide tracking charts showing compliance versus the hospital as a whole.
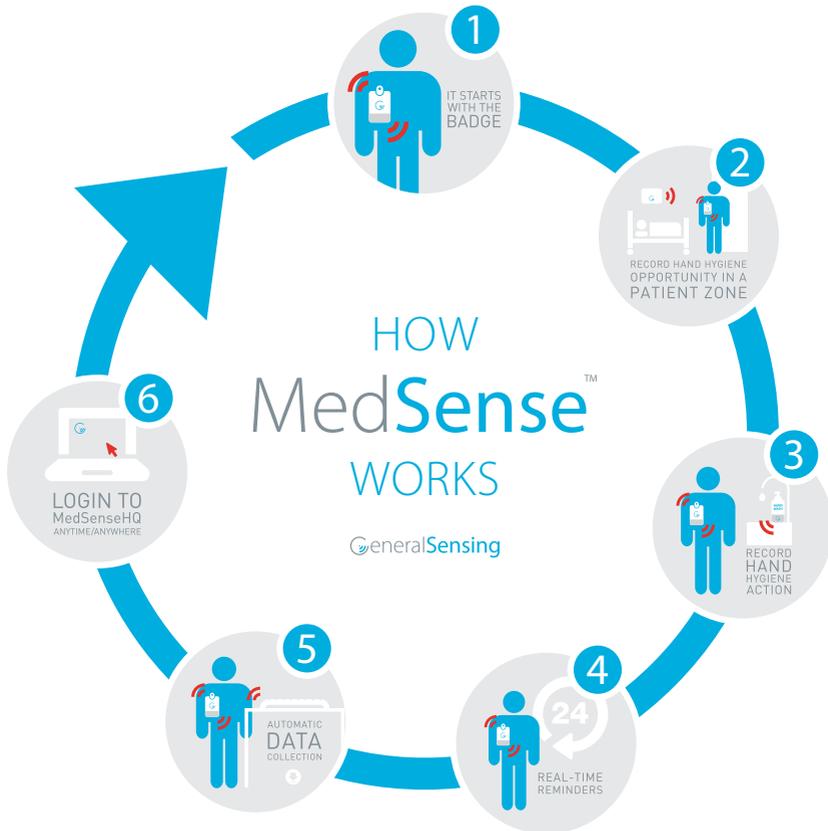
User dashboard

Additionally, MedSense HQ provides complete transparency as all healthcare workers can access their own information, as well as aggregated information for the unit and hospital. At the hospitalís discretion, other features such as HQ Points and HQ Medals may be initiated to promote greater awareness of hygiene activity and provide additional incentives for better hand hygiene.

MedSense HQ is built to integrate with other tools. For example, enabling interaction with Microsoft Active Directory provides easy account management and single sign-on capabilities. Separately, using the MedSense API would allow automatic configuration of a patient zone upon receiving bed occupancy information from a compatible system (e.g. Cerner HL7 interface).

For easy maintenance, MedSense HQ displays the battery levels for Badges and Beacons and provides for email and SMS alerts to warn of low battery levels.

Additionally, General Sensing is creating a one-click exporting tool into other programs, such as the the Care Quality Commission and the Joint Commission.

HOW
MedSense™
WORKS

GeneralSensing

1. IT STARTS WITH THE BADGE
2. RECORD HAND HYGIENE OPPORTUNITY IN A PATIENT ZONE
3. RECORD HAND HYGIENE ACTION
4. REAL-TIME REMINDERS
5. AUTOMATIC DATA COLLECTION
6. LOGIN TO MedSenseHQ ANYTIME/ANYWHERE

1. The Badge is worn like a standard identity card - fastened at chest-level and facing forward - and communicates with other MedSense devices to collect hand hygiene compliance data.

2. The Beacon creates a customizable patient zone depending on its placement so that the Badge may record a hand hygiene opportunity upon entering orexiting a patient zone.

3. All soap and alcohol dispensers are equipped with a Dispenser Monitor. Dispenser Monitors detect the performance of hand hygiene and notify the Badge. The Badge records this as a hand hygiene action.

4. As a reminder, the Badge vibrates and displays an alternating red and blue light when it detects an opportunity for hand hygiene and no hand hygiene action has recently taken place.

5. When within ten meters of the Base, the Badge will automatically upload compliance data. The Base also houses extra Badge batteries and charges batteries to full capacity in two hours.

6. MedSense HQ receives compliance data uploaded by the Base and aggregates this data in a user-friendly dashboard format. User-level to hospital-wide compliance data may be reviewed at anytime with any standard Internet browser.

The Badge

The MedSense Badge, worn like an identity card, collects hand hygiene compliance data as the healthcare worker delivers care around the hospital:

- When the worker enters or exits a wireless patient zone, the Badge records a hand hygiene opportunity.
- Simultaneously, it records hand hygiene actions by detecting when the healthcare worker uses a sanitizer dispenser.
- It can also be configured to vibrate as a gentle reminder to perform hand hygiene before the opportunity expires.
- The Badge automatically uploads its compliance data to MedSense HQ for analysis.
- After a week of use, the rechargeable battery can be easily swapped out for a new one.

The Beacon

The MedSense Beacon is a low-profile, battery-powered device that is placed above a patient bed or other point of care with a semi-permanent adhesive backing. The Beacon establishes a wireless patient zone that allows the Badge to identify hand hygiene opportunities.

The Dispenser Monitor

The MedSense Dispenser Monitor is a device that acts as a holster for sanitizer bottles. When a healthcare worker uses a sanitizer bottle, the Dispenser Monitor signals the user's Badge, which in turn records a hand hygiene action.
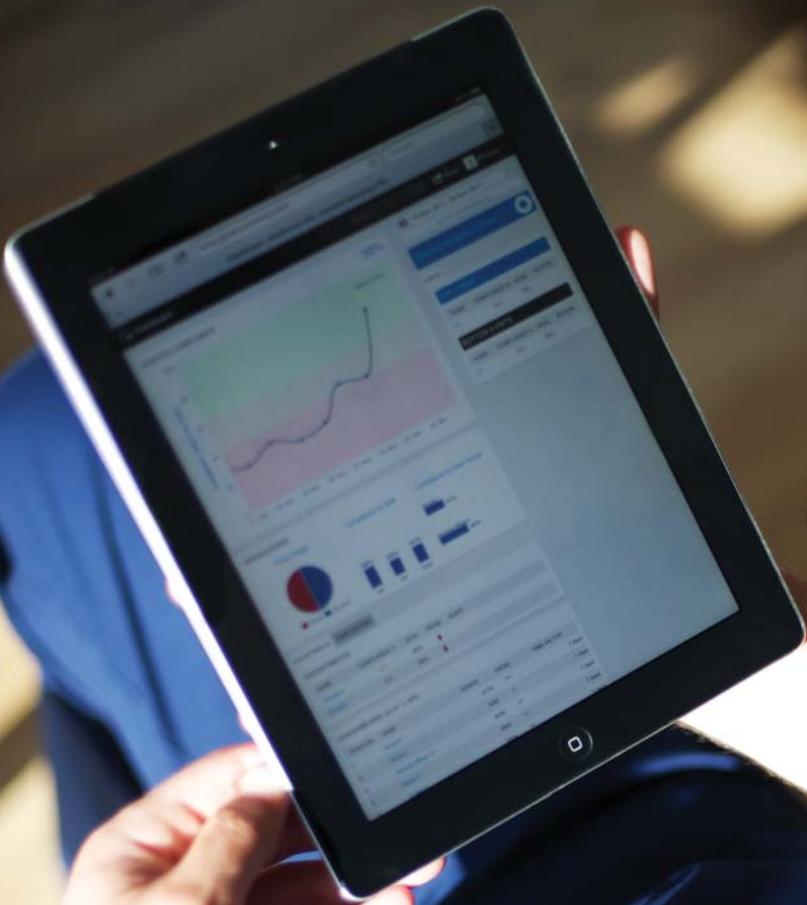
The Base

The MedSense Base functions as a battery charger for the Badge. It is capable of charging up to sixteen Badge batteries to full capacity in two hours. The Base also functions as a wireless base station through which Badges upload compliance data to MedSense HQ.

MedSense HQ

MedSense HQ, General Sensing's cloud-based web application, is what ties all four devices together. Compliance data is automatically uploaded to MedSense HQ and is enhanced with a wide array of tools and metrics:

- View compliance data in an efficient and easy-to-use dashboard format
- Identify compliance trends for individuals, units, and departments
- Set compliance goals, leaderboards, and achievements to motivate users
- Quick identification of top five and bottom five compliance units
- Export compliance data in a variety of formats and reporting styles for easy sharing
- Cloud-based with no need for software download or installation

GeneralSensing

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