DISEASE CONTACT TRACING AND HAND HYGIENE COMPLIANCE BRIEF

Sonitor Sense™ RTLS with Pycube's aktivu™ Enterprise Asset Management Application Automates Disease Contact Tracing and Hand Hygiene Compliance to Effectively Monitor and Manage Infection Control for Epidemics such as Coronavirus and Influenza and for Healthcare-Associated Infections (HAIs)

The outbreak of widespread human viral infections is always a health concern, especially when they reach pandemic levels. Millions of people contract influenza globally each year and as many as 500,000 of those cases can result in death. Although the impact of novel viruses such as SARS and Coronavirus is significantly less, because they are new, there is less known about their epidemiology, and therefore their symptoms and severity. As a result, healthcare facilities must be vigilant in their efforts to manage and monitor these infections and the people they impact – patients, visitors and staff. The CDC (Center for Disease Control) states that hand washing is one of the simplest ways to combat infection, yet hand hygiene compliance averages only 39% in healthcare settings.

HAIs are infections acquired following admission to a healthcare facility that weren't present before admission. The CDC estimates that 1 in 25 patients will develop a HAI for a total of 700,000 patients annually resulting in over 99,000 deaths. This ultimately costs healthcare from $35.7 to $45 billion, not to mention the loss of human life.

With statistics like these, healthcare can't afford not to have technology in place to better manage and monitor patient-staff-medical equipment interactions and to automate hand hygiene compliance.

Sonitor Sense RTLS combined with Pycube's aktivu™ Enterprise Asset Management Application can help automate critical processes that minimize transmission of and seamlessly trace the path of infection to help reduce the spread of infection.

CHALLENGES

- Minimizing and controlling the spread of infections
- Understanding the path of infection
- Identifying all contact points
- Managing and monitoring hand hygiene compliance

WHAT YOU NEED

- Visibility into the real-time and accurate location of exposed equipment and people
- Real-time, accurate monitoring of patient-staff-medical equipment interactions
- An accurate and cost-effective way to automatically capture hand hygiene compliance and noncompliance 24/7

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How Sonitor Delivers

Sonitor's accurate and reliable ultrasound-based Sense™ RTLS technology, combined with the best-in-class end user software application, Pycube's aktivu™ Enterprise Asset Management Application, can help hospitals significantly minimize and control the spread of infections by providing real-time insights and automating hand hygiene monitoring activities.

By being able to trace, monitor and record in real-time every contact and interaction that a patient has with staff, other visitors, other patients and specific mobile medical equipment, facilities can quickly pinpoint the people and assets that have been exposed to illness. This allows facilities to accurately track the path of the infection. Combining this with automated technology to monitor hand hygiene compliance, healthcare can have all the tools necessary to effectively reduce and contain the spread of illness throughout their facility.

Sonitor's Sense RTLS accurately and reliably keeps track of where a patient has been, who they've interacted with, what equipment they've been in contact with and, not only what rooms they've been in, but which bay or bed within that room. Sonitor's powerful RTLS solution delivers the most accurate location and positioning data on the market down to room, bay, and bed level with significantly fewer devices than any other RTLS technologies.

How Does it Work?

Contact Tracing

- Sonitor's ultrasound-based RTLS infrastructure is installed in every patient room and throughout the rest of the facility to meet accuracy requirements (room, bay, bed and hallway bed).
- Staff and patients are assigned unique, individual location badges.
- Tags are affixed to assets (infusion pumps, wheelchairs, beds, etc.).
- Through qualified third-party application software, reports are generated that allow tracing to every person and piece of equipment that has been exposed to an illness.

Hand Hygiene Compliance

- Sonitor's SenseClean ™ Hand Hygiene Modules containing ultrasound and low radio frequency (LF) are seamlessly installed in GOJO® SMARTLINK™ dispensers.
- These capture 100% of hand hygiene events of staff wearing Sonitor badges as well as accurately track the number of dispenses from each device so that you know compliance activity in real-time.

The Ultimate Value

- Accurately track the path of the outbreak
- Effectively contain and reduce the spread of an infectious disease
- Ensure fast response times
- Improve clinical workflow
- Automatically generate compliance reports
- Reduce financial risk
- Increase staff and patient safety

Sonitor & Pycube

Sonitor is the leading providers and the innovators of accurate and reliable ultrasound-based Real Time Location Systems (RTLS) and Indoor Positioning Systems (IPS) linking the physical world with the Internet of Things (IoT) to provide real-time visibility and connected intelligence. As the first and only company to use proprietary ultrasound technology as the primary technology for indoor positioning, Sonitor's Sense™ platform automatically and accurately determines the real-time location of movable equipment and people in hospitals and other complex indoor environments to enhance work-flow and delivery of care, improve safety and to manage inventory and assets.

Pycube is a leading provider of Enterprise Asset Management Solutions for the Healthcare Industry with integrations to Sonitor's RTLS systems

- Asset Management
- Patient Flow and Workflow
- Infection Control and Hand Hygiene Compliance
- Environmental Monitoring
- Nurse Call Automation
- Patient, Resident, and Staff Safety

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