



How Clean Hands – Safe Hands Can Help Support Your COVID-19 Response

When one hospital had a patient test positive for COVID-19 in March of 2020, they immediately enacted specific protocols to ensure the safety of patients and providers. Because they have Clean Hands – Safe Hands installed, they were able to leverage the data and the flexibility of the system to help respond to the growing outbreak in some unique and innovative ways.

Unfortunately, COVID-19 is going to continue to be a problem for hospitals in the future. It's important that facilities arm themselves with state-of-the-art technology in order to tackle COVID-19 cases in their hospitals and help ensure the safety of their staff.

At Clean Hands – Safe Hands, we appreciate everyone's heroic efforts during these unprecedented times. We wanted to share a few ways we are working with our hospital partners to support their COVID response. Please let us know if we can support your team, and of course, stay safe!

Data Indicates which Providers have the Greatest Risk of Exposure to COVID-19

As hospitals begin to return to their new normal, patients and visitors with COVID are still going to be coming into the hospital. The wide range of symptoms that individuals with COVID experience make it impossible to screen everyone before they enter the facility. It is only a matter of time before a patient gets admitted without isolation procedures and is diagnosed with COVID. This sets off a series of questions that are traditionally nearly impossible to answer. Which providers came in contact with the contagious patient, and how often? Do any providers need to be isolated or monitored closely? Which providers are safe to return to work? Unfortunately, answering these questions without an Internet of Things (IoT) system in place can be nearly impossible.

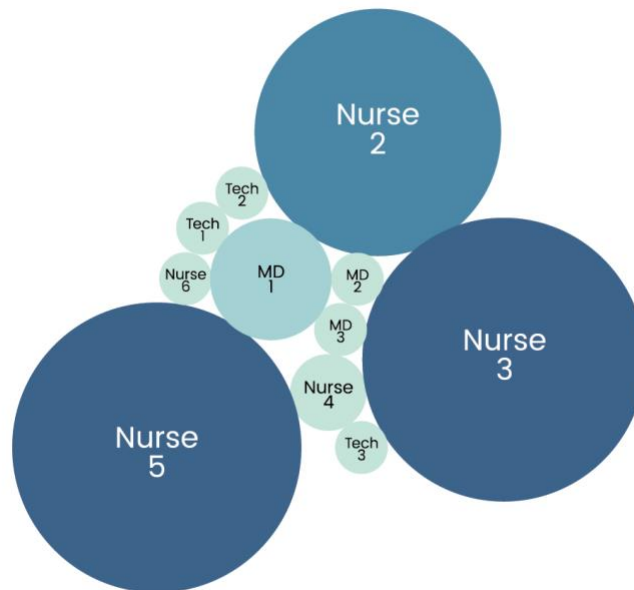
Facilities could save time and money if they were able to pinpoint exactly who had contact with the patient and how often. With this information, hospital leadership could make informed decisions about to who to quarantine and perhaps more importantly who can return to work.

The Clean Hands – Safe Hands system automatically captures data related to provider visits for each patient. Facilities can then leverage the network of sensors and advanced analytics to provide detailed information about staff exposure.

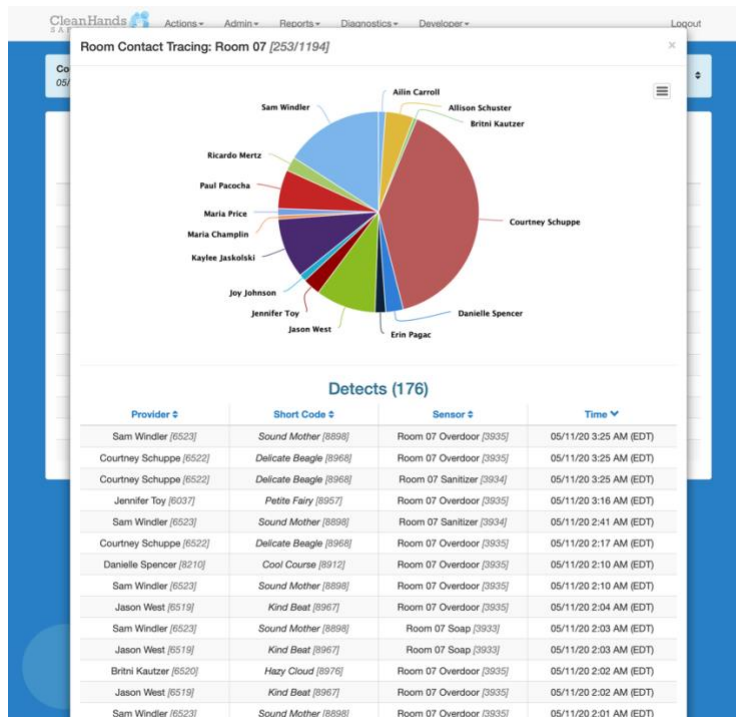


In the graphic below, each bubble represents a provider. The size of the bubble indicates the number of interactions with the patient. Larger bubbles mean more patient interactions. In the image, Nurse 2, Nurse 3, and Nurse 5 had the most interactions with the patient. Thus, they had the greatest risk of exposure. They likely need to be tested and possibly quarantined. MD 1 might need to be quarantined as well, but the others can likely continue working under close observation. This Performance Bubble Plot™ allows leadership to making informed staffing decisions at a glance.

PERFORMANCE BUBBLE PLOT™



For a more in-depth view, Clean Hands – Safe Hands customers can pull up contact tracing information for each room. The image below shows a list and pie chart of each provider that interacted with the contagious patient. The chart makes it clear that Courtney Schuppe had the most interactions with the patient. Unit leaders can take this information and make decisions accordingly.



Many Clean Hands – Safe Hands customers are already using exposure data to identify staff members who were likely exposed to COVID-19, allowing them to temporarily remove them from the schedule until they can be tested and complete a self-quarantine, if necessary.

Perhaps even more importantly, this data allows leadership to quickly identify which providers were *not* exposed to the patient. At a time when provider shortages are a growing concern, identifying which providers are likely safe to continue working is imperative. It is certainly not practical to quarantine a whole shift of providers who *might* have been exposed, and technology makes these determinations easy.

Adaptability of Clean Hands – Safe Hands System Allows for Unique Situations

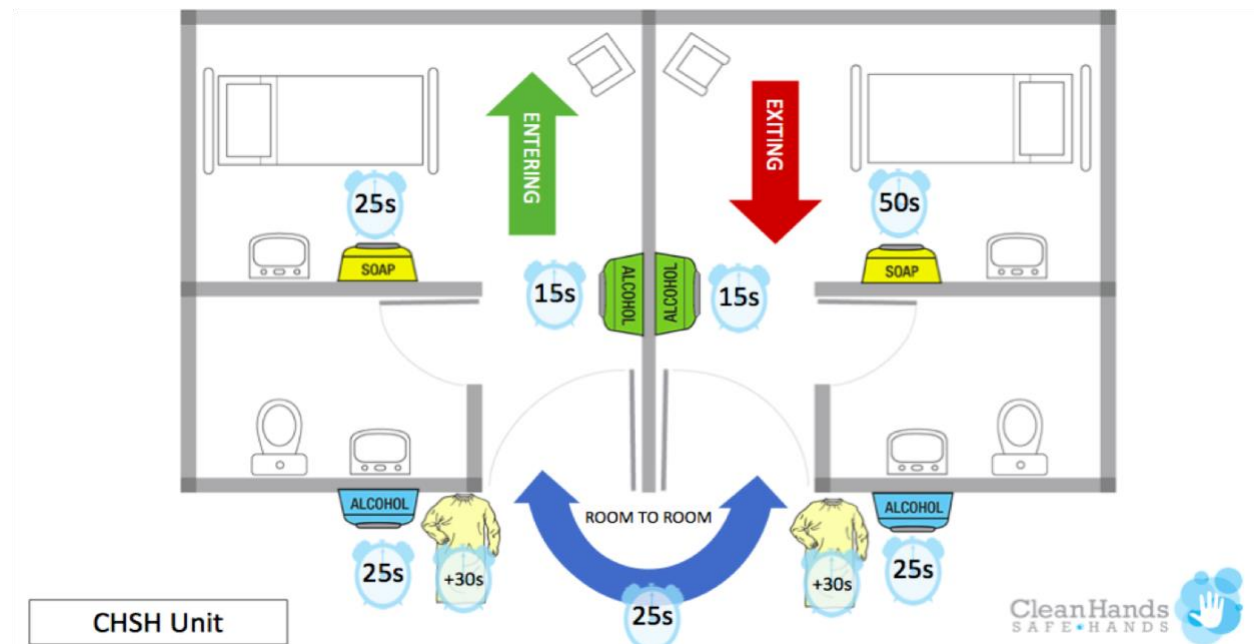
As COVID-19 continues to spread, the unfortunate reality is that this is going to be a problem for many other systems in the very near future, and it is likely already becoming a HAI. The adaptability of the Clean Hands – Safe Hands system makes it easier to be equipped for a nosocomial outbreak of COVID-19.



Some current Clean Hands – Safe Hands partners have set up units specifically dedicated to those who have tested positive for COVID-19 or are at high exposure risk. Clean Hands – Safe Hands has partnered with these facilities to help fast-track implementations of the Hand Hygiene Acceleration Pathway™ to these specialized quarantine units.

With the importance hand hygiene plays on these unique units, Clean Hands – Safe Hands has been able to leverage the flexibility of the system to accommodate the unique needs of these units. Some of these changes include developing customized hand hygiene policies and workflows that are needed for these specialized areas, rapidly deploying the Natural Language Voice Reminder™, adaptable and unique hand hygiene protocols, and reports that are tailored specific to the quarantine units.

The image below shows how the Clean Hands – Safe Hands system allows a certain amount of time (determined by the facility) for the provider to sanitize before they are gently reminded by the Natural Language Voice Reminder™. These timings are flexible and can be tailored to COVID-19. For example, timings can be adjusted to allow additional time to don PPE (Personal Protection Equipment), and the voice reminder can be modified to say whatever the hospital would like or can even be turned off.





These hospitals are collecting actionable data that can be easily reported to public health officials. This allows public health to see an accurate picture of what hospitals are encountering in order to plan and allocate resources accordingly.

Real Time Intervention Blueprints™ Help Identify Risky Situations Before a Transmission Occurs

Hand hygiene is now more important than ever to keep everyone in the hospital safe. The Centers for Disease Control and Prevention (CDC) lists handwashing as one of the most important ways to prevent the spread of COVID-19.¹ Proper sanitation protects both the patient and the provider. Unfortunately, when providers get busy (like when an outbreak occurs), hand hygiene tends to fall to the wayside.² It seems that often times providers choose to wear gloves as an inappropriate alternative to proper hand hygiene.

Simply put, the busier a clinician is, the more difficult it is for them to maintain a high hand hygiene performance rate. This creates a dangerous situation where providers are interacting with lots of different patients and have poor hand hygiene.

Clean Hands – Safe Hands customers are leveraging the predictive analytics capabilities of Real Time Intervention Blueprints™ (below) to help identify risky situations before they lead to a spread of infections. These analytics tools analyze the data in real time and identify concerning patterns of provider behavior.

In the Real Time Intervention Blueprint™ below, each symbol represents a room. The larger the symbol, the more patient visits. The shade of the symbol represents hand hygiene performance. Green indicates high performance and red is low. A room with a large, red symbol is cause for concern and represents a pattern that is at high risk for spreading infection. Clean Hands – Safe Hands has automated algorithms that analyze the hand hygiene rates, number of patient interactions, and the risk of the organism in real-time and sends an alert to the hospital leadership as the concerning pattern develops. The hospital leadership can then go intervene and address the issue before the infection has a chance to spread to other patients.

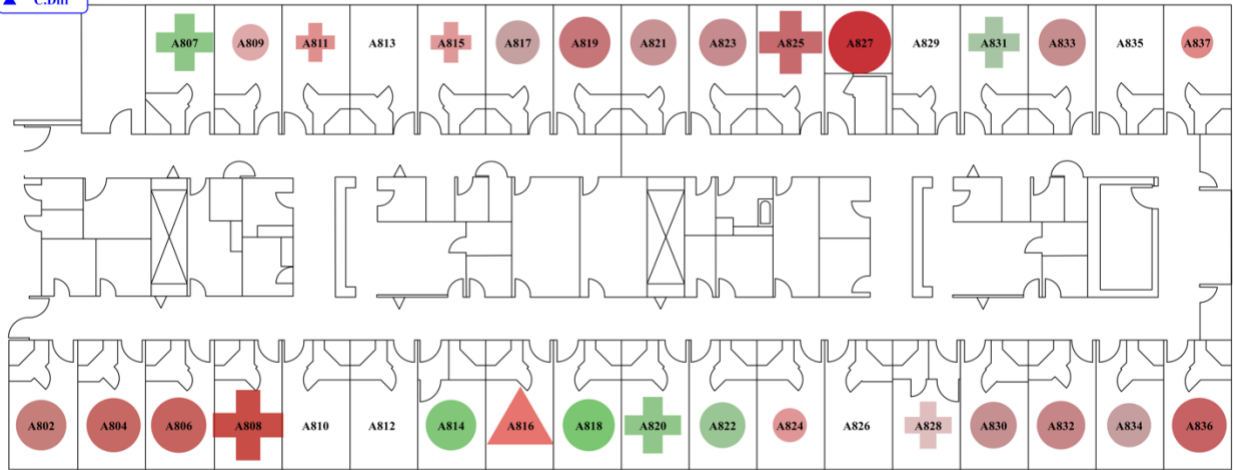
¹ https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fprepare%2Fprevention.html

² <https://cleanhands-safehands.com/the-abcs-of-hand-hygiene-b-is-for-busyness/>

CleanHands SAFE HANDS



- Symbols
- Normal
 - Silent
 - ⊕ Isolation
 - ▲ C.Diff



COVID-19 is highly contagious and can live on outside surfaces for extended periods of time, so having the ability to intervene immediately and prevent the spread is now more important than ever. At the end of the day, these truly are unprecedented times, and everyone is doing the best they can to take a stand against COVID-19. Clean Hands – Safe Hands customers are on the front lines of patient safety, fighting COVID with state-of-the-art technology. If you would like to learn more about determining exposure risk, real – time date, or the Clean Hands – Safe Hands system, please [contact us](mailto:Info@CleanHands-SafeHands.com) for more information.