



## Executive Summary

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## EXECUTIVE SUMMARY

### MITIGATING AND MONITORING INFECTIONS

#### PROBLEM #1 - Healthcare Associated Infections

*If you could stop a Boeing 767 from crashing today, would you?*

- In the U.S., “**Healthcare Associated Infections (“HAI”) kill 247 patients every day. This is equivalent to a Boeing 767 crashing daily!”<sup>1</sup>**
- **Two million** additional non-fatal incidences occur annually.
- These infections result in over **\$30 billion** in unnecessary costs to U.S. Hospitals.<sup>2</sup>
- This corresponds to an incidence rate of 4.5% in the US, while Europe has a rate of 7.1%.
- In other parts of the world, it is as high as 19.1%.
- WHO and the CDC both state that “**over 50% of healthcare infections is caused by poor hand hygiene** and proper hand hygiene is the primary method of prevention.”
- Effective January 1, 2018, any observation by Joint Commission surveyors of individual’s failure to perform hand hygiene in the process of direct patient care will be cited as a deficiency **jeopardizing hospital accreditation** creating a huge tipping point and call for action by hospitals.
- Clinical studies show that **increased hand hygiene compliance reduces infections.**<sup>3</sup>

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<sup>1</sup> World Health Organization’s Guidelines on Hand Hygiene in Healthcare

<sup>2</sup> Unnecessary Deaths: The Human and Financial Costs of Hospital Infections

<sup>3</sup> Infection Control Today, “Hand Hygiene Goes High Tech”

## PROBLEM #2 – Food Borne Infections

**Worldwide, the need to reduce food poisoning has never been greater<sup>4</sup>**

- 600 million people become ill from contamination
  - 1 out of 10 people every year
- 420,000 people die every year
- 30% of deaths are in children under five years old
- \$78 billion are wasted in the U.S. alone by foodborne illnesses

## PROBLEM #3 – COVID-19

**COVID has hyper-sensitized the public to the sanitary conditions of hospitals, markets and restaurants**

- The COVID-19 virus has created a worldwide pandemic with over 8 million infections and more than 400,000 deaths.
- Attempts to mitigate spread of the contagion has led to an unprecedented economic fallout. Stock and bond markets have entered a period of extreme volatility while 44 million Americans filed for unemployment in the past six weeks.
- Two key elements necessary to stop the spread of COVID-19 and re-open the economy include:
  - Social distancing
  - Contact tracing
  - Each of these measures, however, is difficult and costly to implement. An electronic method is needed to supplant the archaic methods used over the last two centuries.
- Restaurants looking to re-open safely and gain back their patrons will need to implement new, visible hygiene practices that impacts both food hygiene as well as the spread of COVID.

### **Restaurant Corporate Risk**

- Poor hand hygiene is now the single most cited factor in *outbreak* investigations
- Food poisoning is an "**Unnecessary Risk**" because it is largely controllable through *handwashing*
- Advances in tracking outbreak sources increases the risk
  - CDC and Lawyers now armed with DNA technology
- Social Media is a risk multiplier

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<sup>4</sup> <https://www.who.int/news-room/fact-sheets/detail/food-safety>

## THE SOLUTION...

### STERILITY HAS THE "SOLUTION"

#### A patented smart hand hygiene monitoring and compliance system

- ✓ The only patented compact body worn hand hygiene system, providing "Convenient Compliance".
- ✓ Alerts the user to sanitize in the event he or she forgets to cleanse their hands at the appropriate time such as prior to patient contact or handling food.
- ✓ Records the dispensing events in real time and calculates each user's compliance rate (Sterility Index) presented in an easy to read dashboard display.

#### STERILITY AIDS IN COMPLIANCE & AUDITING



#### 1. Smart Personal Sanitizer

- SPS - Always available at the point of care

#### 2. Improves Compliance

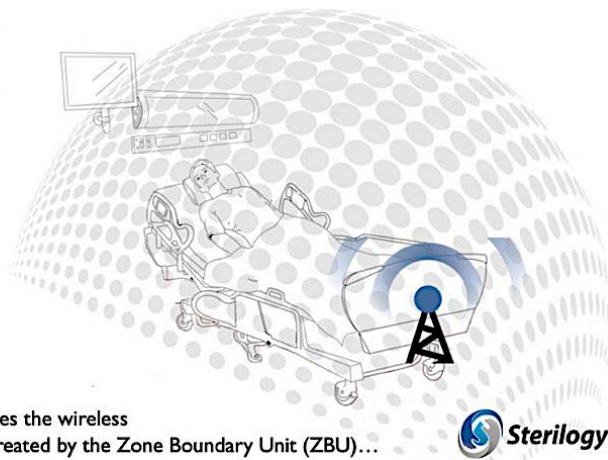
- Reminds each HCP to comply before every patient encounter

#### 3. Accurate Compliance Data

- Data automatically to the Cloud
- Avoids disadvantages of overt or covert methods



HCP approaches the wireless patient zone created by the Zone Boundary Unit (ZBU)...



## CONTACT INFORMATION

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