Infection Control Begins at the Entry Level

Now there’s an alternative to conventional keyboards

Computer keyboards are everywhere in healthcare facilities. Today, smarter prevention and control of hospital-acquired infections (HAIs) are the driving need for an infection-control keyboard: a new generation designed specifically for medical environments.

Typical healthcare keyboards have many users, so cross-contamination from and to patients can result in fatal consequences—particularly if transient bacteria such as methicillin-resistant Staphylococcus aureus (MRSA) exist. Strong arguments for improved infection-control methodologies are evident where computer keyboards collect bacteria and require attention to maintain cleanliness.

Esterline Interface Technologies has developed a smart infection-control keyboard that helps monitor its own cleaning status to safeguard both patient and staff. The Medigenic® keyboard’s flat design quickly wipes clean with hospital-grade disinfectants. Healthcare professionals can swiftly document care with excellent tactile key response.

HEALTHCARE CART

Phone: 201-406-4797
Fax: 888-573-6074
chris.sunda@gmail.com
www.healthcarecart.com
The Medigenic solution cleans easily while offering healthcare professionals a high data rate versus conventional keyboards. The Medigenic keyboard is designed for use in medical environments. Unlike conventional computer keyboards that can harbor reservoirs of harmful bacteria, this state-of-the-art device promotes cleanliness to combat cross-contamination. In just seconds, the Medigenic keyboard's smooth non-porous surface can be clinically cleaned by utilizing a hospital-approved germicidal spray or wipe, including alcohol-based compounds. There are no raised keys to wipe around; no covers requiring replacement or disposal; no reason to submerge and dry.

**M E D I G E N I C®**

- **Sanitize in Seconds:** flat keyboard design quickly wipes clean with hospital-grade disinfectants.
- **Audio and Visual Alerts:** indicator will flash and alert will sound at user defined intervals to help monitor and promote good infection-control practices. Cleaning the keyboard turns off indicators.
- **High-Speed Data Entry:** full-size keyboard enables healthcare professionals to touch-type with conventional keyboard-like performance.
- **Backlit Keys:** keyboard is usable in low-light environments to accommodate data input accuracy and reduce patient disturbance.
- **Disinfection without Disconnection:** single disable key allows connectivity while keyboard is cleaned.

Patented. Full-size keyboard. Actual dimensions: 18.2 x 6.7 inches
Prevention starts with the Medigenic keyboard. Get hospital acquired infections under your control.

Governmental, social, and business pressures are driving the need for better prevention and control of hospital-acquired infections. There is wide agreement amongst epidemiologists and hospital infection-control staff that the rates could—and should—be cut sharply.

Since computer keyboards are a frequently identified source of cross-contamination—as a result of point-of-care communications and automating patient records—we suggest you start at the entry level when you look to prevent and control HAIs.

The Medigenic high-speed data entry computer keyboard is ideal for any environment where bacterial contamination or cleanliness may be a concern. And its hygienic alert system will flash at defined intervals to promote good infection-control practices in any medical environment.

Medigenic Keyboard Test Results

“Testing of the Esterline Medigenic® keyboard in the medical surgical ICU at University College London Hospitals showed significant log reduction in bacterial contamination in the range of 0.5 log - 1.4 log (71% - 96%) at cleaning alert settings ranging from 1.5 to 12 hours. The cleaning alert afforded a significant advantage in the Medigenic design in promoting a high level of cleaning compliance and a reduction in bacterial contamination during use in the ICU.”

— Dr. Peter Wilson
Microbiologist
University College London Hospitals
Testing date: April 8, 2005

Medigenic Keyboard
Typical Installation Sites
• Operating rooms
• Intensive-care units
• Labs
• Patient rooms
• Pharmaceutical
• Food service
• Mobile carts
• Pediatrics
• Nursing stations

HEALTHCARE CART

Phone: 201-406-4797
Fax: 888-573-6074
chris.sunda@gmail.com
www.healthcarecart.com
Conventional computer keyboards spread more than words

The colonization rate for computer keyboards and mouse with potentially pathogenic microorganisms is greater than that of other user interfaces in a surgical ICU. These fomites may be additional reservoirs for the transmission of microorganisms and become vectors for cross-transmission. Source: The Journal of Clinical Monitoring and Computing.

Information presented at the 15th annual Scientific Session of the Society for Healthcare Epidemiology of America highlighted results of a study designed to determine the ability of bacteria to survive on computer keyboards. Vancomycin-resistant enterococcus (VRE) and methicillin-resistant Staphylococcus aureus (MRSA) are capable of prolonged survival, with growths of the bacteria evident 24 hours after contamination. Source: Infection Control Today.

Consumers cite infection rates and cleanliness as two of the three most important factors when choosing a hospital, out-ranking other factors such as reputation and proximity. Source: University of Pennsylvania survey, 2005.
Medigenic Keyboard Comparison

To be effective in a medical setting, a medical keyboard must help 1) reduce bacterial cross-contamination, 2) make healthcare institutions more efficient, and 3) make users lives easier. Esterline has developed a smart medical keyboard that helps facilitate all three requirements. But most importantly, the Medigenic keyboard safeguards against the spread of nosocomial infections—those originating or occurring in a hospital.

![Keyboard Comparison Diagram]