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Health Informatics: Better Outcomes

Whether you are the Chief Information Officer (CIO) or the Chief of Medical Nursing, there are few, if any, more important new competencies than applied informatics – the use of interactive databases during day-to-day patient care. The idea is that immediate access to subject matter experts (SME) and decision algorithms improves care. The informatics job map above shows a nationwide divergence in early adoption. *Parallel execution of patient care with best practice trials just clicks away is coming.* Ecostratum currently contributes to a testing database of clinical and critical care environments.

Tip 1: Legionella Found in Ice.

Immunocompromised patients are vulerable to *L. pneumophila* found in ice. Look for biofilm hidden inside the dispenser and ice reservior. Clean it with aqueous disinfectant.

Healthcare Clean: Footwear HAIs

Patient infection transmited by unclean surfaces was presented during the 2017 APIC Conference, Cincinnati, Ohio. Dr. William Rutala emphasized that "after terminal clean only 30-40% of a patient room is clean!" Why? Microbes from floors were a major source. It seems that people handle their footware, then hand transfer fomites to other room surfaces, including adjacent patient rooms. Ecostratum emphasizes to wear booties and use walk-off mats to intercept this pathway.

Calendar of Events

March 7, 2019. CETA Biosafety Cabinet Committee, Capitol Hill Management Services, 230 Washington, Albany, NY 12203
March 12, 2019. Cincinnati APIC Presentation; *Construction Airborne Fomites.* Kettering Med. Ctr, 3535 Southern Blvd, OH 45429
May 21-23, 2019, AIHA Conference & Exhibit, "Effective Big Data", Minneapolis Conv. Cntr., 1301 2nd Ave.S, Minneapolis, MN 55403

"Screen Time – Cell Phone Infections and Forensics are here"

We have become a *People of Screen v. People of the Book*. The average smartphone user accumulates 3 hours & 16 minutes per day. So what is the concern? Both bacteria and DNA can be found on the surface of cell phones. A well-known antibiotic resistance bacteria called *Acinetobacter baumannii* was traced to cell phones. See. https://wwwnc.cdc.gov/eid/article/11/7/05-0221 article. In a separate study, 33% of cell phone users were correctly profiled by DNA swabs, with another 30% partially profiled from their phone. See. https://www.omicsonline.org/open-access/generating-human-dna-profiles-from-cell-phones-for-forensic-investigation-2157-7145-1000288.php?aid=53231. The message? It is easily, too easy, to take your personal device everywhere while thinking about "crowd sourcing", "clicks" & "views". But, a test of your phone can reveal almost everything about you, what you did and where you have been. It is microscopic forensic evidence on a satellite tracking system. Ecostratum encourages you to remember that your phone is covered in your microflora and DNA".

Image Courtesy of Mulholland Forensics

Tip 2: Changes in Ohio Building Code

Mechanical ventilation is required if less than 5 ACH are reported in a passively ventilated building. Also, Carbon Monoxide detectors are required in residential buildings.

"A Higher Level of Thinking". Q&A on technical developments. Contact Steve Rucker at srucker@ecostratum.com

Why are Dioxins found after fires? *Today's buildings are a hodgepodge of rubber, plastics and electronics which release carcinogenic dioxin smoke in a fire. The NFPA Journal reported a "full-court press" to protect firefighters in June 2017. Ecostratum became aware of this issue shortly after the 911 terrorist attack. This may be the most overlooked component of fire restorations.* See link:
https://www.nfpa.org/News-and-Research/Publications/NFPA-Journal/2017/May-June-2017/Features/Facing-Cancer

Image Courtesy of NFPA Journal, May-June 2017