2023 ACCE CE-IT Symposium

Securing IoMT Proactively

Collaboration Between Information Technology and Clinical Engineering Profession
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Turning the Tide: Developing Cyber Safety Partnerships with Clinicians

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UC San Diego
Dr. Christian Dameff is an assistant professor of Emergency Medicine, Biomedical Informatics, and Computer Science (affiliate) at the University of California San Diego. At UCSD Health he was hired as the nation’s first Medical Director of Cyber Security.

Dr. Dameff is also a hacker and security researcher interested in the intersection of healthcare, patient safety, and cybersecurity. He has spoken at some of the world’s most prominent Cyber Security forums including DEFCON, RSA, Blackhat, and BSides, and is one of the cofounders of the CyberMed Summit, a novel multidisciplinary conference with emphasis on medical device and infrastructure cybersecurity. Published cybersecurity topics include hacking 911 systems, HL7 messaging vulnerabilities, and malware.
Session Description

1. Introduction
2. Group therapy
3. Barriers clinician pose to good security practices
4. Tips for success
5. Alignment: the big picture
6. Questions
Emergency Medicine
“SECURE” Telemedicine
Hacker
HOW HACKERS COULD MESS WITH 911 SYSTEMS AND PUT YOU AT RISK

University of California San Diego Researchers Demonstrates How Easily Medical Laboratory Systems and Devices Can Be Compromised, Putting Patient Lives at Risk

Mar 8, 2019 | Laboratory Management and Operations, Laboratory News, Laboratory Operations, Laboratory Pathology, Management & Operations

Researchers stress the importance of preparing hospital and clinical laboratory information systems before a ‘major failure’ occurs

Medical laboratory information systems (LIS) and similar devices are vulnerable to hacking, according to physicians and computer scientists from the University of California San Diego (UCSD) and the University of California Davis (UCD). They recently completed a study that exposed the vulnerabilities of these systems and revealed how clinical laboratory test results can be manipulated and exploited to put patient lives at risk.
Group Therapy Time
Group Therapy
Group Therapy
“Make it work and don’t bother me with a password.”
Pitfall: Procurement
Pitfall: Deployment
Pitfall: Clinical Use
Pitfall: Decommissioning

Siemens Rapidpoint 405 Blood Gas Analyzer
Pre-Owned
$9.95
or Best Offer
+$182.75 shipping
7 watchers

akbuy.shop (236) 100%
Converting Clinicians
Tip: Show Clinical Impact
Converting Clinicians
Converting Clinicians
Converting Clinicians

https://www.youtube.com/watch?v=OpyYLJOLwpA&t=38s
Clinical Cybersecurity Training Through Novel High-Fidelity Simulations.

Damoff CJ¹, Selzer JA², Fisher J³, Killeen JP¹, Tully JL³.

Abstract

BACKGROUND: Cybersecurity risks in health care systems have traditionally been measured in data breaches of protected health information, but compromised medical devices and critical medical infrastructure present risks of disruptions to patient care. The ubiquitous prevalence of connected medical devices and systems may be associated with an increase in these risks.

OBJECTIVE: This article details the development and execution of three novel high-fidelity clinical simulations designed to teach clinicians to recognize, treat, and prevent patient harm from vulnerable medical devices.

METHODS: Clinical simulations were developed that incorporated patient-care scenarios featuring hacked medical devices based on previously researched security vulnerabilities.

RESULTS: Clinicians did not recognize the etiology of simulated patient pathology as being the result of a compromised device.

CONCLUSIONS: Simulation can be a useful tool in educating clinicians in this new, critically important patient-safety space.

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Tip: Identify the Willing
Tip: Talk About Big Risks

Scripps enters fourth week of ransomware attack
Tip: Specialty Matters
Tip: Build a Team

- CMIO
- CISO
- Clinical engineering leadership
- Emergency Managers
- Residents, fellows, nurses, etc.
- “Medical Device Cybersecurity Committee”
The Big Picture: Alignment

• Clinical Engineering
• Information Services
• Clinicians

How Sen. Warner Aims to Mitigate Healthcare Cybersecurity Risks Through Legislation

Senator Mark Warner spoke with HealthITSecurity about the healthcare cybersecurity challenges discussed in his recent policy options paper and how he plans to address them.
As hospitals see increased cybersecurity scrutiny, the true state of medical device security will come to light.

Start working now.
Questions?