U.K. Hospitals Hit in Widespread Ransomware Attack

Why hospitals are so vulnerable to ransomware attacks
RESEARCH OVERVIEW
Hacking Hospitals

24 months, 12 healthcare facilities, 2 healthcare data facilities, 2 healthcare technology platforms, and 2 active medical devices

ONE Blueprint to secure healthcare assets

VIEW REPORT

24 Months
12 Hospitals
2 Healthcare data facilities
2 Medical devices

Cyber attacks = kill patients
White Hat Hackers Hit 12 American Hospitals To Prove Patient Life 'Extremely Vulnerable'

A two-year research project into the security of 12 hospitals and a variety of medical technologies has concluded that patient health is “extremely vulnerable” to digital threats.
patient data v. patient health
Wrong mission × Outdated approach = Failure
WRONG MISSION
Patient Health v. Patient Data

HARM

PROFIT
OUTDATED APPROACH
Untargeted v. Targeted Attacks
Unsophisticated v. Sophisticated Attacks
Unsophisticated v. Sophisticated Adversaries
<table>
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<tr>
<th>Adversaries</th>
<th>Targeted</th>
<th>Untargeted</th>
<th>Targeted</th>
<th>Untargeted</th>
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ATTACK ANATOMIES
Patient Monitor
Lobby Kiosk / Bloodwork
COMMON ISSUES
Common Issues

- funding
- staffing
- training
- hierarchy
- policy
- Network awareness
- audit
- logging/monitoring
- architecture
- access control
- legacy systems
- remote access
BLUEPRINT
“Are we secure?”

“How secure are we?”

“How do we get there?”
Recap

Wrong mission $\times$ Outdated approach $= \text{Failure}$

Correct mission $\times$ Modern approach $= \text{Success}$
How Can ISE Help?

SECURITY ASSESSMENT

vCISO