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Coverys Education

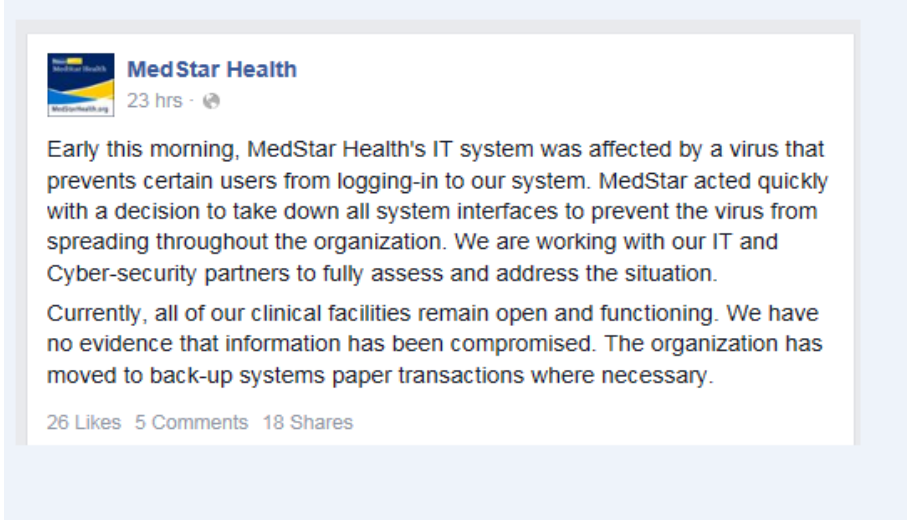
An Enterprise Look at Cyber Risk

Conflict of Interest Disclosure

Sue Boisvert does not have any real or apparent conflict(s) of interests or vested interest(s) that may have a direct bearing on the subject matter of the continuing education activity.

Learning Objectives

- Identify the top 3 cyber risks facing healthcare organizations today
- Define three common cyber risks/attacks
- Discuss risk management's role in mitigating cyber risk



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Data Sources

Ponemon Healthcare Data Report 2016

Top 3 Security Concerns

- 65% Employees
- 45% Cyber attacks
- 30% Mobile devices/Cloud

Top 3 Breach Root Causes

- 51% Criminal attack
- 41% Third party error
- 39% Lost or stolen device

Ponemon. Sixth Annual Benchmark Study on Privacy & Security of Healthcare Data. May 2016

Ponemon Healthcare Data Report 2016

Leading Vulnerabilities

Covered Entity

- 51% Lack of 3rd party vigilance
- 44% Lack of skilled IT staff

Business Associates

- 54% Employee negligence
- 50% Lack of mitigation technology

Ponemon. Sixth Annual Benchmark Study on Privacy & Security of Healthcare Data. May 2016

HHS Breaches

By Covered Entity

- 66% Provider
- 19% Business Assoc.

By Media Type

- 50% Hardware
- 25% Paper
- 13% "e"

By Misadventure

- 50% Theft
- 23% Unauthorized access
- 11% Hacking
- 10% Loss

Verizon Data Breach Report 2015

Healthcare Sector Data Breach Causes

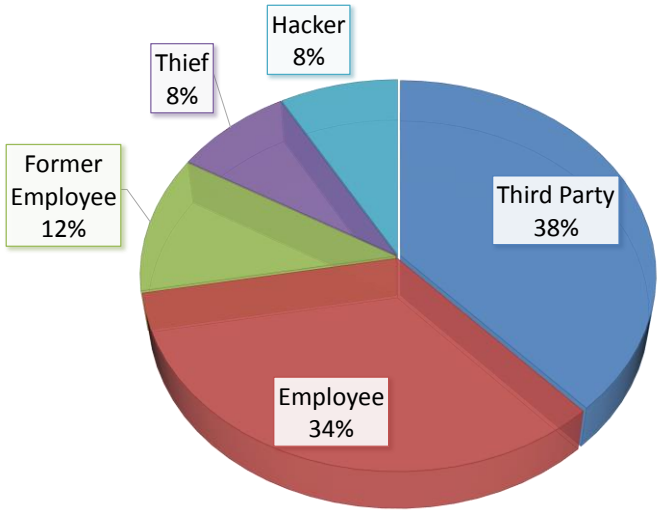
- 32% Miscellaneous Errors
- 26% Insider Misuse
- 16% Theft or Loss
- 12% Point of Sale
- 9% Web Application Attacks
- 4% Cyber Espionage
- 1% Crimeware

Verizon 2015 Data Breach Investigations Report

Cyber Regulatory Coverage

- Information Security and Privacy
- Privacy Breach Response Services
- Regulatory Defense and Penalties
- Social Media Content
- Cyber Extortion
- First Party Data Protection
- Crisis Management and Public Relations
- First Party Network Business Interruption

Cyber Claims by Source

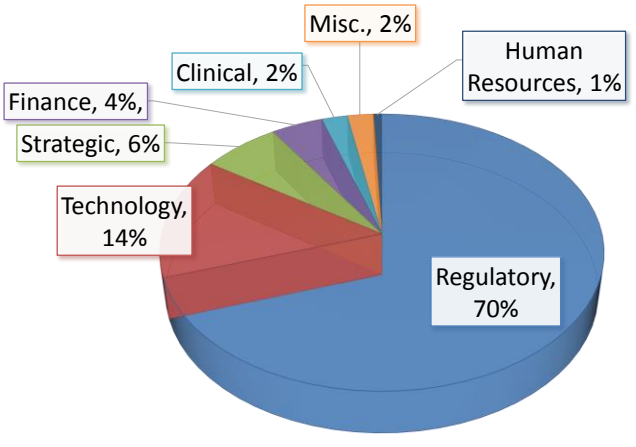


Top Cyber Risks in Healthcare

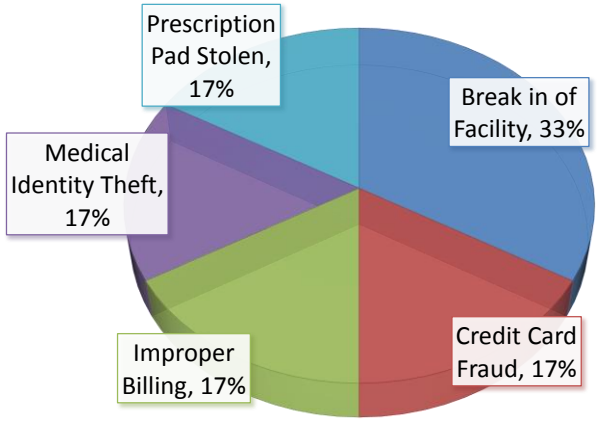
- Employees
- Business Associates
- Theft/Loss
- Cyber attacks (hacking, malware, DDoS etc)

Activity

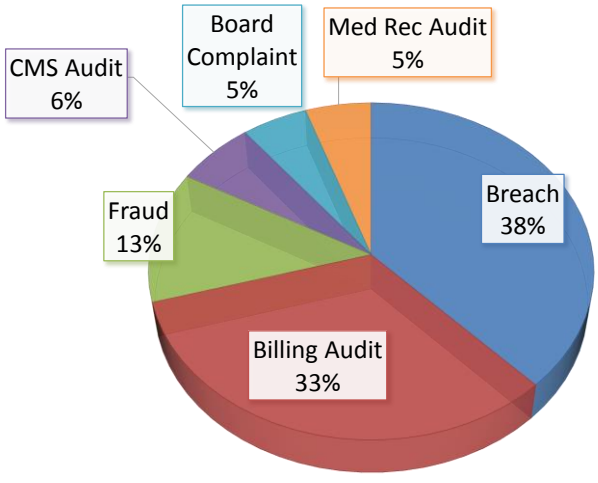
Cyber Claims by ERM Domain



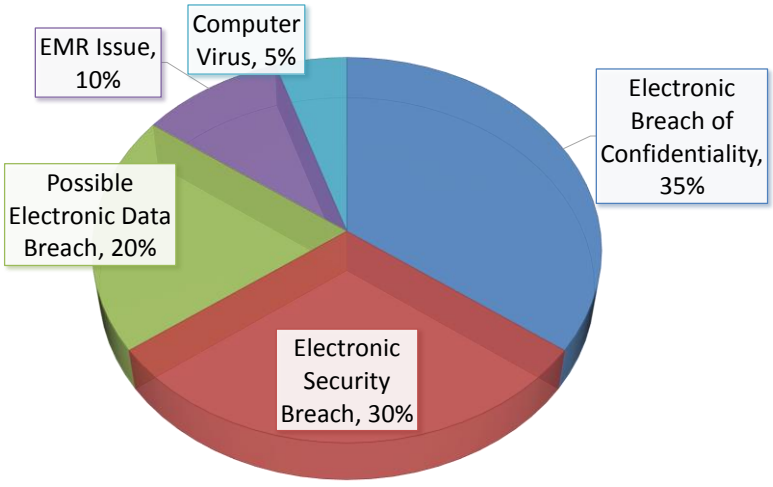
Finance Domain



Regulatory Domain



Technology Domain



Risk Management's Role?

- Participate on health IT committees
  - Collaborate with CIO, CISO, BME
  - Encourage an enterprise risk perspective
- Participate in privacy and security audits
  - Evaluate the Security Risk Assessment for omissions:
    - Networked medical devices
    - PCI Compliance
    - HVAC systems
    - Website/servers
    - Whaling

Risk Management's Role?

- Facilitate health IT and cyber risk event reporting
  - How are reports submitted
  - Who reviews the information
  - How is the investigation conducted
- Participate in significant cyber event analyses
  - Use comprehensive framework such as RCA3

Risk Management's Role?

- Keep up with the "evidence"
  - NIST Special Publications SP 800 and SP 1800 series
  - Sociotechnical Model of health IT
- Organize a team and implement one (or more) of the SAFER Guides

Cyber Resources

Center for Internet Security National Campaign Cyber Hygiene Toolkits:

Count:
https://www.cisecurity.org/cyber-pledge/tools/documents/count.pdf

Configure:
https://www.cisecurity.org/cyber-pledge/tools/documents/configure.pdf

Control:
https://www.cisecurity.org/cyber-pledge/tools/documents/control.pdf

Patch:
https://www.cisecurity.org/cyber-pledge/tools/documents/patch.pdf

Repeat:
https://www.cisecurity.org/cyber-pledge/tools/documents/repeat.pdf

NIST Computer Security Division Special Publications SP 800 Series Computer Security:
http://csrc.nist.gov/publications/PubsSPs.html#SP 800

SP 800-160 DRAFT Systems Security Engineering: An Integrated Approach to Buildin Trustworthy Resilient Systems (Second Draft).
http://csrc.nist.gov/publications/drafts/800-160/sp800_160_second-draft.pdf
See Software Assurance Tables starting on page 264

Cyber Resources

SP 1800 Series Cyber Security:
http://csrc.nist.gov/publications/PubsSPs.html
Scroll down to 1800s

Sophos Threatsaurus: The A-Z of computer and data security threats:
https://www.sophos.com/en-us/medialibrary/PDFs/other/sophosthreatsaurusaz.pdf?la=de-DE.pdf

Thank You!!

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