

# CYBER THREATS IN HEALTHCARE

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## AGENDA

- Are you a target for criminal organizations or foreign intelligence services?
- Compliance and Security
- Common traits of a breach
- The C-suite - how to make them aware of the threats
- What you can do today to prepare

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## WHY?

- Why would the Chinese government or a transnational organized crime group want MY PHI?

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## ARE YOU A TARGET?

- The healthcare Industry is...
- Cybercriminals targeted healthcare at a higher rate than other sectors in 2015. -IBM
- 113 Million records compromised in 2015 - OCR
- Ransomware attacks to quadruple in 2016 - Healthcare IT News
- Healthcare 4.5x more likely to be hit by ransomware than other industries - Websense
- Estimated ransomware downtime cost \$7900/minute per incident - Ponemon Institute




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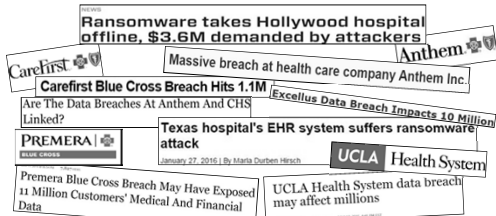
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## HEALTHCARE HEADLINES




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## UNFORTUNATE FACTS

- Despite the headlines, nobody expects to be a victim
- When the bad guys get your PHI, the FBI doesn't get it back
- The chances of law enforcement putting cyber criminals in jail are very low
- 90% of all data breaches and cyber crime could have been easily prevented




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## COMPLIANCE VS. SECURITY

- HIPAA compliant
  - Anthem - 78 million records
  - Blue Cross - 11 million
- PCI (Payment Card Industry) compliant
  - Target - 40 million credit card numbers
  - Home Depot - 50 million credit card numbers and email addresses



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## COMMON BREACH TRAITS

- Phishing
- Social engineering
- Malware
- Stolen credentials
- Lack of strong authentication controls
  - 'Two-factor'



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## QUESTIONS FOR YOU

- Are we investing more in cyber security today or less?
- Are the breaches getting larger or smaller?
- Are breaches happening more often or less?
- Are the costs going up or down?



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## C-SUITE UNDERSTANDING

- Have a strong risk management program
- Communicate specific business risks and potential costs
- Share the headlines
- Call in the FBI
- 3<sup>rd</sup> party assessment of program maturity



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## TAKE ACTION TODAY

- Identify your critical assets and assess risk
- Test your backups and restores
- Create an incident response plan
- Implement two factor authentication
- Block emails from unnecessary countries
- Awareness and education



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