



The time is now: Cybersecurity in healthcare

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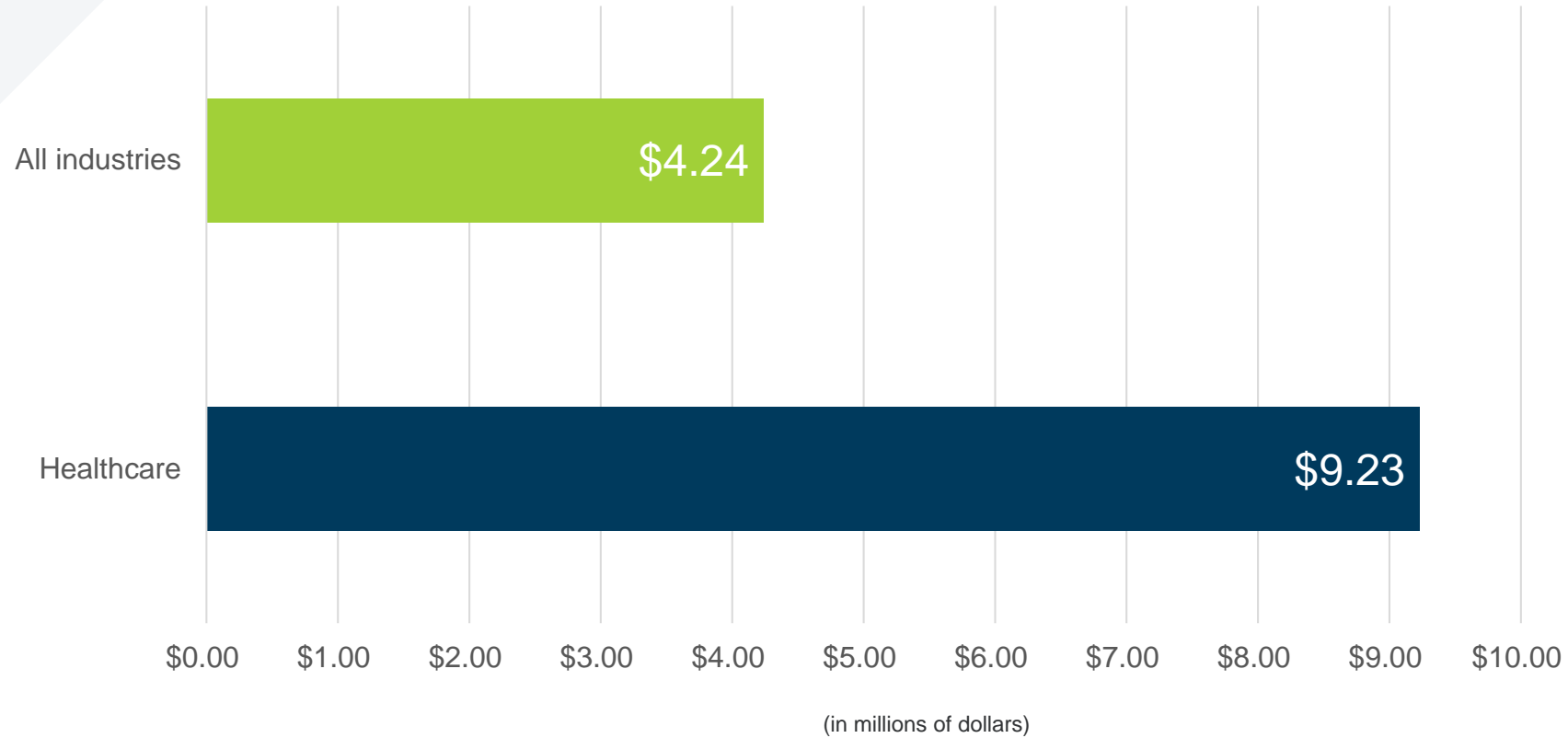
Learning objectives



- ▲ Acknowledge it is time to take cybersecurity seriously
- ▲ Recognize top healthcare cybersecurity risks
- ▲ Understand the impact of these risks
- ▲ Identify what your organizations can do
- ▲ Realize the role that your people play

Why it's time to take this seriously

Average cost of a data breach



Are we talking about HIPAA?

cybersecurity \neq HIPAA Security

HIPAA Security \neq cybersecurity



Polling question

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5 Top Cybersecurity Risks

Why they are happening



Ransomware

In The News

**Ransomware Wave Hits Healthcare,
Report EHR Downtime**

Tech

ransomware

**Irish government says it will not pay ransom over 'significant'
cyberattack on health system**

Tech

**Cyberattack forces Scripps to
patient care**

Ransomware

Why is it happening?

- 1 Poor backup strategy
- 2 Lack of multi-factor authentication
- 3 Deficiencies in malware protection
- 4 Unpatched software and OS
- 5 No network segmentation



Phishing

In The News

Health Plan Email Phishing Attack Exposes Student DUI

PH IL Provider Faces Healthcare Data Breach, 171K Patients Exposed

Illinois-based Metro Infectious Disease Consultants alerted 171K patients that their data may have been exposed during a healthcare data breach.

Phishing

Why is it successful?

1

**Inadequate security
awareness training**

2

**Lack of multi-factor
authentication**

3

**Minimal e-mail
scanning, detection,
and validation tools**

4

**Scarcity of IT
resources**

Malicious Insiders

In The News

**Ex-NY Hospital Staffer Charged
Data Breach
IT Security Company COO Charged
with Malicious Insider
South Florida Community Care Plan Notifies
Patients About Insider Email Breach**



Malicious Insiders

Why is it happening?

- 1 No review of audit logs
- 2 Excessive user permissions
- 3 No data loss prevention tools
- 4 Inadequate security awareness training

Loss or Theft

In The News

**Lost Storage Device Contained
Protected PHI of Cedar Springs**

**Renown Health Discovers PHI
Stored on Lost USB**

**Stolen Hard Drive Contained PHI of 76,000 Texas
Patients**

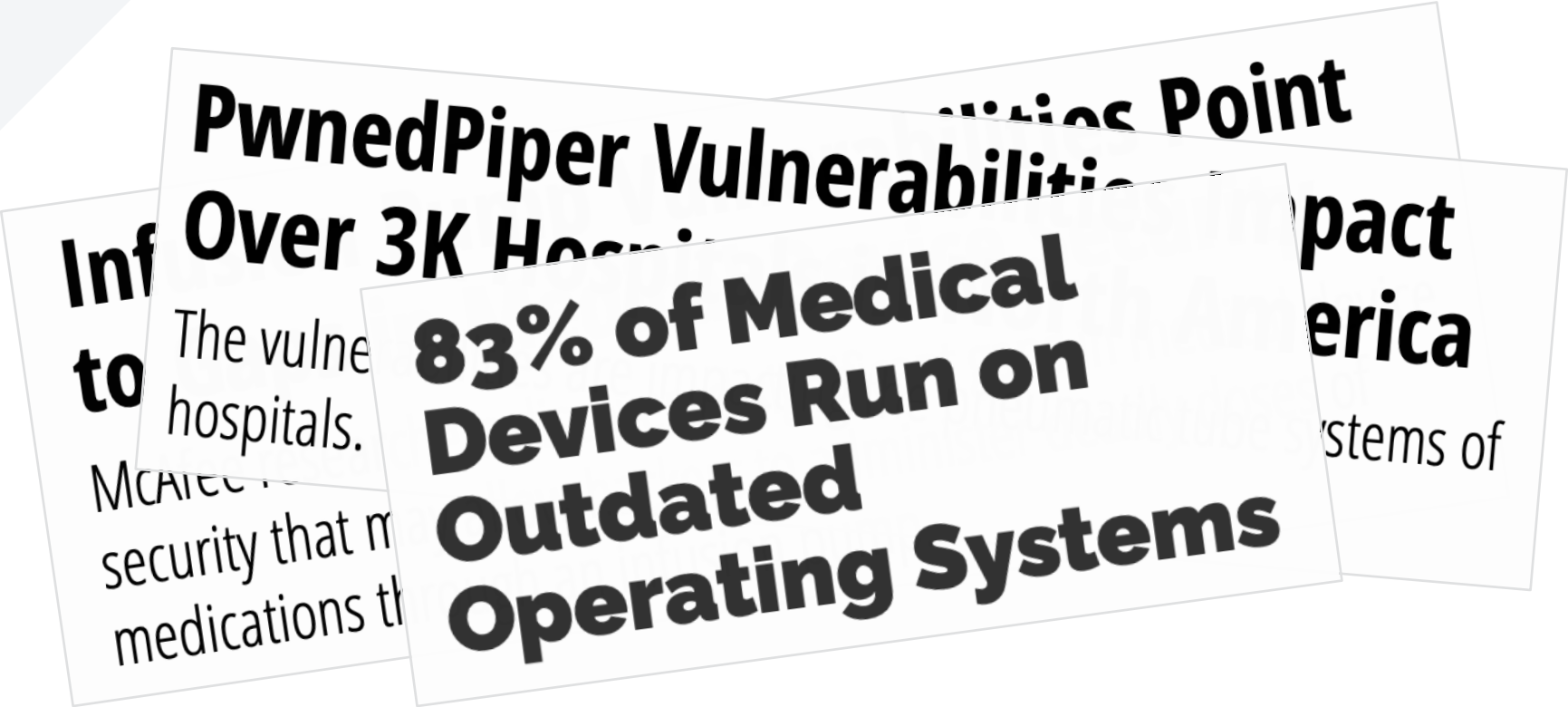
Loss or Theft

Why is it happening?



Medical Devices

In The News



Medical Devices

Why is it happening?

- 1 Vendor patches are never applied
- 2 Legacy equipment where updates are not possible
- 3 More difficult to assess by traditional techniques
- 4 Volume

Polling question



Understanding the impact



Patient
safety



Financial
harm



Reputational
damage



Loss of
productivity



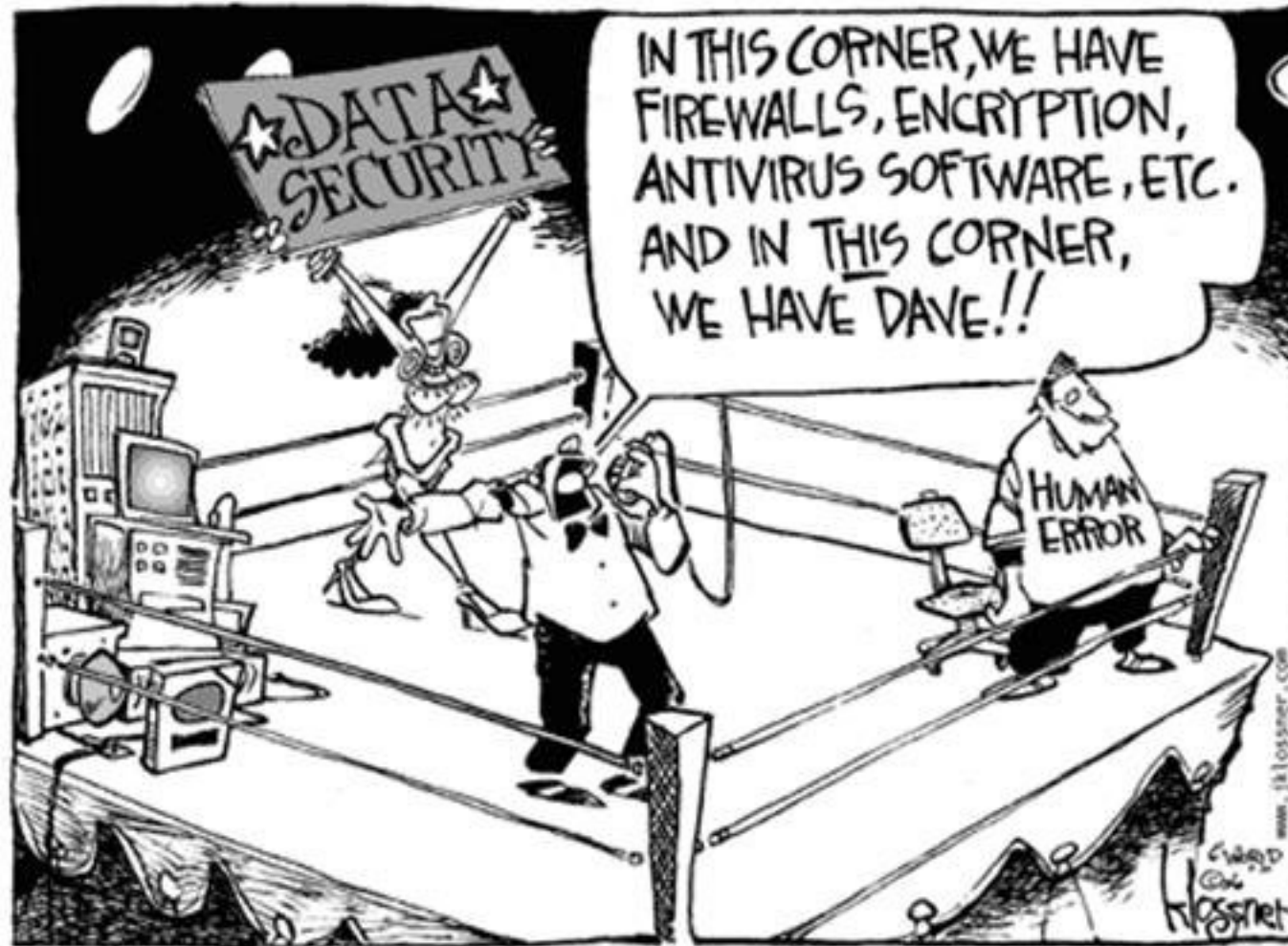
Reportable
breaches



What can you do?

- ▲ Security awareness training
- ▲ Multi-factor authentication
- ▲ Vulnerability and risk management
- ▲ Reliable and secure backups
- ▲ Data Loss Prevention tools

How to change human behavior



Questions?

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