The 28th National HIPAA Summit

Data is Worth More Than

Why Focusing on HIPAA May Be Your Biggest Mistake



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Mike Semel

- 35-year IT business owner/manager
- 12 year certified HIPAA Professional
- EMT/ER Tech/FD Rescue Captain/IndyCar Safety Team
- Hospital/Skilled Nursing CIO
- School District CIO

4Med^{*}approved

Cloud Backup Service COO





Mike Semel

President Chief Compliance Officer SEMEL Consulting



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Professiona

HIPAA Academy

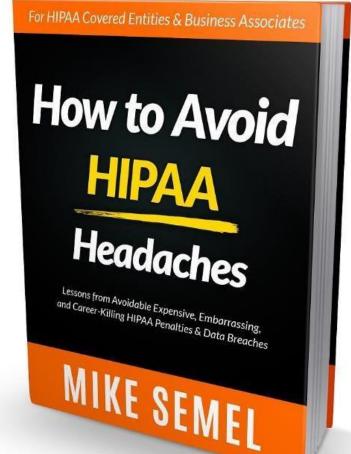




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Amazon Best-Seller







- 1. Does your senior management treat HIPAA as a <u>business</u> risk?
- 2. Is HIPAA treated just as a compliance requirement to get out of the way?
- 3. Do you know the notification & reporting requirements in your <u>state laws</u>?
- 4. Do you know the requirements in your <u>cyber liability insurance policy</u>?
- 5. Do you know the requirements of any <u>contracts or data use agreements</u> your organization has signed?
- 6. Can you <u>QUANTIFY your risks in DOLLARS</u> to get the right resources?



What is Compliance?

Having to meet requirements set by others Federal & State Laws Industry Regulations Contractual Obligations Insurance Policy Requirements





Patient Data Published to Internet

- Cottage Health's IT vendor installed a server and accidently published it to the Internet
- Patients Googled Themselves & Got their Medical Records
- IT Vendor did not have insurance so Cottage Health filed a claim with its cyber-liability carrier, Columbia Casualty
- Patients sued, lawsuit settled for \$4.1 million
- Columbia Casualty paid settlement and lawyer's fees, but said it was still investigating...
- Columbia is sued Cottage Health to recover its \$4.1 million





Will Your Cyber Liability Insurance Pay Off?



Insurer Seeks Breach Settlement Repayment

Alleges Client Failed to Follow 'Minimum Practices'

Columbia Casualty alleges that Cottage Health's application for coverage under the Columbia policy "contained misrepresentations and/or omissions of material fact that were made negligently or with intent to deceive concerning Cottage's data breach risk controls," according to the insurer's lawsuit.



State & Federal Penalties

HHS.gov

Health Information Privacy

Cottage Health Settles Potential Violations of HIPAA Rules for \$3 Million



XAVIER BECERRA *Attorney General*

Attorney General Becerra Announces <mark>\$2 Million</mark> Settlement Involving Santa Barbara-based Cottage Health System Over Failure to Protect Patient Medical Records Failed to conduct an accurate and thorough assessment of the potential risks

Failed to implement security measures sufficient to reduce risks

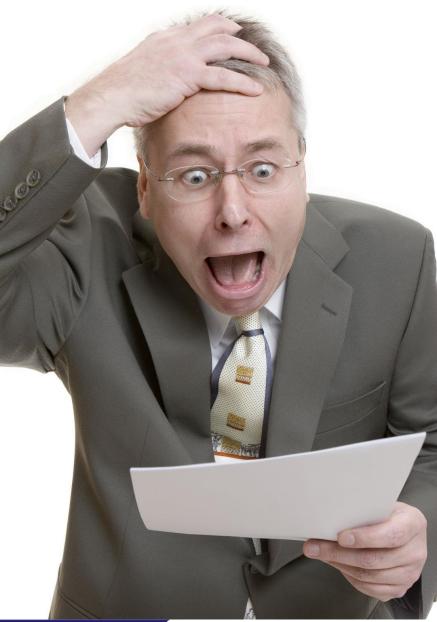
- Failed to perform periodic technical and non-technical
- Failed to obtain a written business associate agreement with a contractor that maintained ePHI on its behalf.



For an error caused by a vendor...

- Lawsuit \$4,125,000
- California \$2,000,000
- OCR \$3,000,000

TOTAL \$9,125,000





Security is a BUSINESS problem With a TECHNICAL solution

\$ 9,125,000 is a BUSINESS problem



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HIPAA Penalties

2014 – 2015 \$14 million 2016 - 2017\$42 million 2018 \$28.7 million







Data Protection = Consumer Protection



LABN

When The Government Closes Your Business The FTC's Data Security Error: Treating Small Businesses Like The Fortune 1000 Forbes

Daugherty opened LabMD 18 years ago, in 1996. The lab operated as a small business of 20-some employees and



Data Protection = Consumer Protection



FEDERAL TRADE COMMISSION PROTECTING AMERICA'S CONSUMERS

Stolen Laptop Leads to 20-Year FTC Oversight for Accretive Health

- Thursday, January 2nd, 2014 Print | Email

BECKER'S HOSPITAL REVIEW

Accretive Stock Price & Market Cap

Before Breach \$30/share \$865 million

After Breach \$ 2/share \$ 197 million

Every business in ALL 50 states is regulated !!!

- ALL states, plus Washington, DC, Guam, Puerto Rico, & USVI
- Protect:
 - Social Security Number
 - Driver's License Number or state issued ID card
 - Account number, credit or debit card with access info
- 20 states protect Medical Records Beyond HIPAA
- States have shorter reporting deadlines
- You must comply with the laws protecting data on customers whose info you have, not just where you are





Increased State Legislation



California Consumer Data Privacy Protections Expanded Under Proposed Law

February 25, 2019 at 3:16 pm Filed Under: Attorney General Xavier Becerra, California, California Senate, Consumer Privacy Act, Data Breach, Identity theft, Privacy, SB 561

SACRAMENTO (CBS SF/AP) — California consumers would have more power to sue corporations for misusing their data under a proposal to expand what already is the nation's most far-reaching law protecting personal information.

Sweeping New Colorado Data Privacy Law Impacts Health Care Industry

LEXOLOGY.

Delaware Passes Amendment to Data Breach Notification Law ...



Breach Notification Laws

HIPAA - Breaches over 500 records report without unreasonable delay or a maximum of 60 days

California requires 15-day notification



Increased Litigation

COHELAN KHOURY & SINGER Leading Employment Rights and Consumer Protection Lawyers

California Data Breach & Internet Privacy and Internet Fraud Lawyers

Data Breach Issues

If you believe your private medical records, credit or debit card information, social security number,

personal or financial information has been compromised, you should consult with lawyers qualified to

advise you of your rights. Shoppers at Target, Neiman-Marcus, discount retailers, medical center



Patient Lawsuits



Medical Malpractice

- Medical Treatment
- Complaint from 1 patient
- Insurance coverage
- Liability Limitations

Now -

Medical Malpractice

- Data Breach
- Sued by ALL patients at same time?
- Insurance coverage ?
- Liability Limitations ?
- \$ 1.4 million jury award

Breach of Contract

Negligent Misrepresentation

- Court considered Notice of Privacy Practices a contract with patients
- Complaint from ALL patients at same time
- \$ 853,000 jury award





Contracts

MAYO CLINIC **Business Associate Agreement Information Security Schedule**

This Information Security Schedule shall be applicable in all cases in which Business Associate is permitted to The international sectories personale state re-approache in an casso in which mouthers structure is permittere to retrors, transport, donola, store et material PHI of 0 for the Nay campa personal to scienci 1 of the Braines Associate Agreement, et in statations where Brainese Associate is hosting or storing PHI on Mayo's behalt. In such cases, Banices Anceciae will implement systems, previous and adaptatos to protect PHI form standardizad accesse of discharge while off of the Mayo campor. This Information Security Schedule applies to any form or medium of PHI, including PHI in determine and the state of person. The almismum, Bostess Associate will implement and matiatas the following controls, the state of the state o

MAYO CLINIC Business Associate Agreement Information Security Schedule

I. Information Security Policy. Business Associate must enact, implement and adhere to a written internal information security policy that addresses the roles and responsibilities of its Workforce who have direct or incidental access to PHI. The policy should accurately reflect the laws, regulations, operational procedures and systems security configurations implemented. This policy should delineate controls used with regard to identification, authorization, availability, assurance and audit. The policy should require continuous control vements as threats and vulnerabilities evolve and just address, at a minimum: Roles and responsibilities of Workforce members

velope ID: 51A5AC3A-C125-4005-5550-4685C256C2D4

Roies and responsibilities of Workforce members Education and Awareness Security Incident Response Audit Reporting Information Security Infrastructure: Access Controls based on the Need to Know Principle athorization controls based on the Least Privilege Authorization controls based on the Least Principle Encryption of Information in Transit and at Rest Network and Host Security Physical Security Business Continuity Asset classification and control

II. Risk Assessment and Security Controls Audit. Business Associate must conduct a security risk assessment on at least an annual basis. Identification of material threats and vulnerabilities must be addressed with effective security controls within a reasonable perior of time after the completion of the assessment. If Busine ssociate hosts applications which store or process PHL Associate hosts applications which store or process PHL Business Associate must also have a compliance and/or a least an around basis. This may take the form of an SAME in SOC 2 Type II and/or SOC 3 Type II report, or another from of extram and/a approved by Mayo. Upon request, Basiness Associates will donthate to the Mayou recommendations regarding any material deficiencies identified during the and/a along with a plan to remody the differences.

monitored 24 Workforce or by video III. Access. A. Access by Individuals. Business Associate will limit access to PHI, and to equipment, systems, networks, applications and media which contain, transmit, process store PHI ("Equipment Systems and Media"), to refere of Business Associate who need to access the PHI for purposes of performing Business Associate's obligations to Mayo. Business Associate will implement discretionary access controls designed to permit each user access to only Equipment, Systems and Media which are necessary to accomplish assigned tasks on behalf of B. Access Controls. Business Associate must strictly control physical and electronic access to Equipment, Systems and Media in the following manner: sociale mu 1. Physical Access

a. All PHI, and all Equipment, Systems and Media must be stored in a secure facility or secure area within Business Associate's facility which has separate physical controls to limit access, such as locks or physical tokens ("<u>Secured Areas</u>"). b. Business Associate shall limit access to Secured Areas to those of its Workforce or Solecentractors who have a legitimate business need to access the secure area, and aher. Business Associate has made an dministrative determination of the Workforce member's

trustworthiness in accordance with Section XIII. c. Business Associate must maintain a list of Workforce and Subcontractors who have been authorized to access Secured Areas pursuant to Section III(B)(1)(b), and shall review and update the list at least

d. Access to Secured Areas by individuals other than those who have been authorized to access Secured Areas pursuant to Section III(B(1)(kb) shall only be permitted if there is a legitimate business need, and

isolated from internal networks. Network where PHI reside must be physically or legical from segments containing other data. Network must be protected by a first-all configured to devicen behind it. A change control system place for changes mude is forward relate set network infrastructure such as rootners and place for the posts must be disabled and against finerent protocol address spoofing prote be in place. ive a unique ated by one of d key, biometric nust be advised ration tool (e.e. B. Intrusion Detection and Prevention ntication i Associate must employ risk-appropriate countermeasures to protect telecommunication and any networked computer systems or de t for multiple store, process or transmit Mayo information countermeasures are required to manage the nuthorized access, penetration, disruption or of Mayo systems, applications and/or in Network intrusion detection systems and prevention systems meet this requirement. of at least sit pting passwords intifier; prohibit reated character; Business Associate must actively monitor netw rd complexity, which consist ctionary;

onitored by a ant to Section

ix. Implement automatic le systems and applications that process, store or have access to PHI.

IV. Computing and Network Infrastructure

A. Network Isolation. If Business Asso applications which store or process PHI, segments containing Internet-accessible service

solated from internal networks. Network

Distances Associate must actively monitor network intrastion detection and infrasion prevention syst 24 hours a day, seven days a week basis with a reaction time of 15 minutes for real or suspected lacidents, Business Associate shall provide su management reports to Mayo upon request delir Security Incidents and actions taken. anges at least V. Restrictions on Uses of Portable Device rd history to Business Associate will not store, process d

transmit PHI on any portable device or stor-unless encrypted. PHI may be stored on portal media for purpose of creating back-up copies of provided that any such portable storage media to the provisions of Section III(B)(1)(a). For p o write down or locally on this Agreement, postable device means any de not intended to be used at a single, fixe Portable devices include, but are not limited User accounts is no longer notebook and tablet computers, handheld portable storage drives and personal digital assi

VI. Encryption. Business Associate will encry electronically stored instances of credit card dat Security numbers, driver license numbers and st identification numbers using an Advanced Encr time-outs, devices that

Documentat information responsible.

II. Risk Assessment and Security Controls Audit. Business Associate must conduct a security risk assessment on at least an annual basis. Identification of material threats and vulnerabilities must be addressed with effective security controls within a reasonable period of time after the completion of the assessment. If Business Associate hosts applications which store or process PHI, Business Associate must also have a compliance audit of security controls performed by an external audit firm on at least an annual basis. This may take the form of an







DATA USE AGREEMENT

ARTICLE 4. BREACH NOTICE, REPORTING AND CORRECTION REQUIREMENTS

a. For federal information, including without limitation, <u>Federal Tax Information</u>, <u>Social Security</u> <u>Administration Data</u>, and <u>Medicaid Client Information</u>, within the first, consecutive clock hour of <u>Discovery</u>, and for all other types of <u>Confidential Information</u> not more than 24 hours after



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Incident Management Plan

- Know what your insurance company requires for coverage
 - Audit your Insurance Policy Compliance
 - Immediately involve a cyber & compliance attorney
 - Get pre-approval for forensic & compliance specialists
 - Are you required to notify law enforcement?
- Include all reporting requirements
 - Federal, state, contractual

Be ready to respond





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The 28th National HIPAA Summit

Data is Worth More Than Gold

Translating Risk into Dollars



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Medical Record Black Market

Credit Card Number



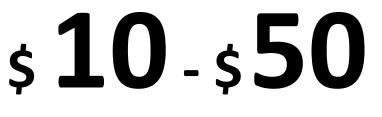


25¢ - \$ L













2018 Cost of a Data Breach Report

\$ 231 Per Record Across All Industries

\$408 Per Medical Record

Source: 2018 Ponemon Cost of a Data Breach Report 10,000 records -- \$2-\$4 million

25,000 records -- \$5 - \$10 million

100,000 records -- \$ 20 - \$ 40 million



Data is Worth More Than Gold







Lost Thumb Drives

Thumb Drive Weight – ³⁄₄ of one ounce

Gold = \$ 1200 per ounce

If Thumb Drive was solid gold it would be worth \$ 995

A medical practice paid a **\$ 150,000** fine when it lost a thumb drive containing patient records

A health plan paid **\$ 2.2 million** when it lost a thumb drive



Data Worth \$ 150,000 To \$ 2.2 million



Data is EVERYWHERE





Threats Have Changed

Then



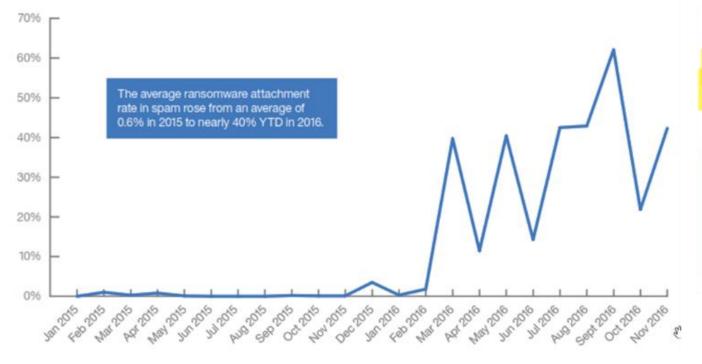




Security Is More Important Now

BM Security Ransomware increased 6,000 percent in 2016

Percent of spam with ransomware attachments



Per the IBM survey, seven in ten of those who have experience with ransomware attacks (70 percent) have paid to get data back. Resolution has come at a hefty price for some, with more than half paying over \$10,000.

- 20 percent paid more than \$40,000
- 25 percent paid \$20,000 \$40,000
- 11 percent paid \$10,000 \$20,000



January 14, 2020

- Windows 7 Professional End-of-Life
- Windows Server 2008 R2 End-of-Life
- Budget Now
 - New Computers & Servers → New Operating Systems
- Plan Long Replacement Projects
 - 120 computers x 2 hours = 240 hours
 - 15 servers x 3 hours = 45 hours
 - Total Replacement project = 285 hours/40 hours = 7 weeks



