

## **Privacy & Security Risk Analysis Webinar**







## Introduction: What We Do Matters

#### VISION MISSION

Massachusetts is the global eHealth leader. Our connected communities enjoy better health at lower cost and serve as models of innovation and economic development. To engage the healthcare community and catalyze the development, adoption and effective use of health IT









#### Massachusetts eHealth Institute (MeHI)

#### Support healthcare providers in achieving Meaningful Use of EHR technology

- Meaningful Use Gap Analysis
- Registration and Attestation support
- Secure document storage and audit preparation

#### Support providers with Physician Quality Reporting System (PQRS) reporting

Qualified registry for submitting PQRS measures

#### Collaborate with external partners to offer

- Patient engagement resources
- Privacy and security tools BluePrint SecurityConnect
- Other HealthIT resources

#### **Engage in thought leadership**

- Educational outreach, informational webinars and training courses
- Subject matter expertise on topics of interest to provider organizations



#### Disclaimer

- MeHI does not take any responsibility for the actions of physicians and their staff.
- MeHI acts as your trusted advisor for meaningful use and Health IT, and while MeHI will provide direction and connect you to appropriate privacy and security organizations and other services, physicians and their staff are solely responsible to take the steps necessary to protect the privacy and security of protected health information.



#### BluePrint Healthcare IT

- BluePrint Healthcare IT is a recognized leader in healthcare IT security, privacy, audit readiness, and compliance (S-PAC). Our Security services provide a disciplined, standards-based approach to patient and business-centered IT security and privacy risk management.
- BluePrint Healthcare IT is a firm dedicated solely to the healthcare industry, hospitals, health Systems, ACOs, payers, and the business associate community. We have been able to anticipate the needs and trends for healthcare IT security, privacy and compliance to build solutions and services that are anticipatory and relevant. We have been leaders, nationally and locally, contributing thought leadership and practical tools for the industry, and contribute to national and regional working groups within HIMSS, HITRUST and eHealth Initiative.





## Bio – Ryan Patrick

Ryan Patrick is the Principal Security Consultant for BluePrint Healthcare IT's Security, Privacy, Audit Readiness and Compliance services. With 14 years of experience in all facets of security and information technology for both the public and private sectors, Ryan brings an innovative perspective in protecting information and organizational resources.

Prior to joining BluePrint, Ryan served as the Deputy Chief Information Officer for the New York State Division of Military and Naval Affairs. In that position, he led an effort to prepare for the Defense Information Systems Agency's (DISA) Command Cyber Readiness Inspection which includes assessing several key areas: the entity's overall information security program, the classified and unclassified networks and the digital and physical assets used to support them.

Working as a security analyst with organizations such as Metlife and Memorial Sloan-Kettering Cancer Center, Ryan has gained a wealth of experience conducting risk assessments against HIPAA, ISO 27001, NIST 800-53 and PCI-DSS. He currently holds an MBA from Norwich University and the Certified Information Systems Security Professional (CISSP) certificate.

Ryan is also a Major in the New York Army National Guard serving as the Chief Information Officer for the 42<sup>nd</sup> Infantry Division. He is combat veteran of Operation Iraqi Freedom where he received a Bronze Star Medal, Global War on Terrorism Expeditionary Medal and the Global War on Terrorism Service Medal.







## Agenda

- Introductions
- Workshop Goals
- Introduction BluePrint & Healthcare Landscape
- Regulatory/Compliance Landscape
- The Hard Truth!
- Security Rule
- Security Risk Analysis & Management
- Meaningful Use
- Myths about Security Rule and Meaningful Use
- MU Risk Analysis/Demo
- Q&A





## Our Philosophy:

# Our philosophy: Make the process simple



## Learning Objectives

#### After this session you will be able to:

- Understand the applicable state and federal laws/regulations
- Learn how to implement the HIPAA Security Rule and Meaningful Use (MU) in your organization
- Learn how to utilize BluePrint Healthcare IT's Security
   Connect for compliance with Security Rule/Meaningful
   Use





## Healthcare Landscape

- Transition to electronic medical records
- Exchange of health information
- Meaningful Use
- ICD-10
- Affordable Care Organizations
- OCR (HIPAA) and CMS (Meaningful Use) Audits
- State and Federal Laws/Regulations (including penalties)





#### Massachusetts – 201CMR17.00

This regulation establishes minimum standards to be met in connection with the safeguarding of personal information contained in both paper and electronic records.

The objectives of this regulation are:

- to ensure the security and confidentiality of customer information in a manner fully consistent with industry standards
- protect against anticipated threats or hazards to the security or integrity of such information
- •protect against unauthorized access to or use of such information that may result in substantial harm or inconvenience to any consumer

- Not only Protected Health
   Information (PHI)
- Paper or Electronic forms
- Is not a breach unless used in unauthorized manner
- First Initial AND Last Name, PLUS:
  - Social Security Number
  - State-Issued ID (Driver's License, Photo ID)
  - Account Number (even without PIN)





#### Massachusetts – 201CMR17.00

Every person that owns or licenses personal information about a resident of the Commonwealth shall develop, implement, and maintain a comprehensive information security program that is written in one or more readily accessible parts and contains administrative, technical, and physical safeguards.

#### The comprehensive security program must include:

- Designating one or more employees to maintain the program
- Identifying and assessing reasonably foreseeable internal and external risks to the security, confidentiality, and/or integrity of any electronic, paper or other records containing personal information
- Developing security policies for employees relating to the storage, access and transportation of records containing personal information outside of business premises.





#### Massachusetts – 201CMR17.00

#### The comprehensive security program must include (cont):

- Imposing disciplinary measures for violations of the program rules.
- Preventing terminated employees from accessing records containing personal information
- Third-party service providers that are capable of maintaining appropriate security measures to protect such personal information
- Reasonable restrictions upon physical access to records containing personal information, and storage of such records and data in locked facilities, storage areas or containers.
- Regular monitoring to ensure that the program to prevent unauthorized access to or unauthorized use of personal information
- Reviewing the scope of the security measures at least annually or whenever there
  is a material change in business practices
- Mandatory post-incident review of events and actions taken, if any, to make changes in business practices relating to protection of personal information.





## 201CMR17.00 17.04

The comprehensive information security program must ensure the establishment and maintenance of a security system covering its computers, including any wireless system, that, at a minimum, and to the extent technically feasible, shall have the following elements:

- User authentication
- Access control
- Encryption (Network)
- System Monitoring
- Encryption (Media)
- Patch Management (Internet-facing)
- Malware
- Education





#### Massachusetts 201CMR17.00 Breach Notification

"A person who owns or licenses personal information knows or has reason to know of (1) a security breach, or (2) that the personal information of a Massachusetts resident was acquired or used by an unauthorized person or for an unauthorized purpose, that person must notify the Attorney General and the Office of Consumer Affairs and Business Regulation."

\* Consumer Affairs and Business Regulation website: http://www.mass.gov/ocabr/data-privacyand-security/data/requirements-for-security-breachnotifications.html

The notifications to the Office of Consumer Affairs and Business Regulation and to the Attorney General must include:

- A detailed description of the nature and circumstances of the breach of security or unauthorized acquisition or use of personal information:
- The number of Massachusetts residents. affected as of the time of notification:
- The steps already taken relative to the incident;
- Any steps intended to be taken relative to the incident subsequent to notification; and
- Information regarding whether law enforcement is engaged investigating the incident.





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#### Knowledge Check

What types of information are considered personal information according to Massachusetts 201CMR17.00?

First Initial AND Last Name, PLUS:

- Social Security Number
- State-Issued ID (Driver's License, Photo ID)
- Account Number (even without PIN)





## Federal Law/Regulations

Applicable Federal Law and/or Regulations include:

- HIPAA
- HITECH
- OMNIBUS

\*Systems and controls should comply with most stringent requirements





## HIPAA & HITECH Background

**HITECH** (Health Information Technology for Economic and Clinical Health): enacted on February 17, 2009.

- Part of the American Recovery & Reinvestment Act (ARRA)
- Revised HIPAA (Health Insurance Portability and Accountability Act) rule: tougher provisions for security, privacy and enforcement.
- Increased maximum penalties:
  - \$50,000 per incident
  - \$1.5M for the year (willful neglect concept)
- Reporting requirements for security breaches
  - Media outlets, US Department of Health and Human Services, victims
- Ability for state Attorney General to bring legal action against physicians and hospitals for non-compliance
- Individual Liability for criminal violations





## Violations = Penalties

Violation Category	Per Violation	Maximum Penalty Per Year		
Violation was not known and the organization would not have known by exercising reasonable diligence.	\$100 - \$50,000	\$1.5 M		
Violations due to reasonable cause but not willful neglect.	\$1,000 - \$50,000	\$1.5 M		
Violation due to willful neglect but corrected within 30 days of discovery of the violation.	\$10,000 - \$50,000	\$1.5 M		
Violation due to willful neglect and not corrected within 30 days of discovery.	\$50,000	\$1.5 M		





#### HITECH – New Provisions

- Business Associates and subcontractors are now subject to HIPAA requirements ("Chain of Trust")
- Restrictions on Research, Marketing, Fundraising, Sale of patient information
- Increased patient rights to restrict disclosure of PHI
- Business Associate Agreements must be revised to include language that covers HITECH & OMNIBUS
- Length of time information is considered PHI
- Accounting of Disclosures to include TPO (Treatment, Payment and Operations)





### **OMNIBUS** – New Provisions

- Expanded Business Associate (BA) definition
- Third-Party Risk Assessments
- Strengthened "harm" provision
  - Assumption of harm unless proven otherwise
- Genetic Information Nondiscrimination Act (GINA)
  - Genetic information is protected under the HIPAA Privacy Rule





#### The Hard Truth!

You may be wondering...
Why are you telling me all of this?
What does this mean to me?
Why are we here?





What does a data breach cost?

The story behind the numbers





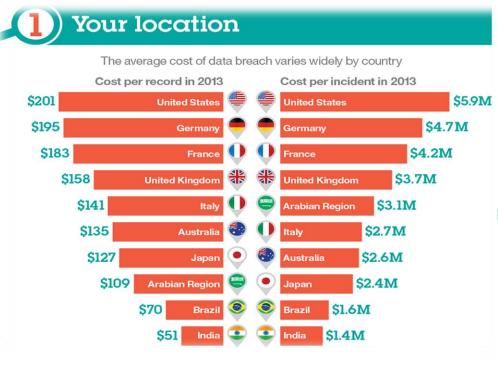
Global cost per incident in 2013



What it will cost you depends on a number of key factors.







Your industry

Highly regulated industries have the highest per-record cost of data breach



Consumer























## 3 The type of attack

Malicious or criminal attacks are the leading root cause of a data breach... and result in the highest cost per record









## What can save you money

Taking these actions can reduce the average per-record cost



\$14.14 Build a strong security posture



\$8.98

Involve your **Business Continuity Management** team



\$12.77
Develop an incident response plan



\$6.59

Appoint a Chief Information Security Officer

#### How well are you doing?

Study participants say there is much room for improvement in their security operations. How would you answer?



Do you have a security strategy to protect your:

Information assets?

Online presence?

IT infrastructure?

55% scried

58% said

62% said





#### **HHS Breach Notification Site**

## U. S. HEALTH & HUMAN SERVICES OFFICE FOR CIVIL RIGHTS

File a Breach | HHS | Office for Civil Rights | Contact Us

#### Breach Portal

#### **Breaches Affecting 500 or More Individuals**

As required by section 13402(e)(4) of the HITECH Act, the Secretary must post a list of breaches of unsecured protected health information affecting 500 or more individuals. These breaches are now posted in a new, more accessible format that allows users to search and sort the posted breaches. Additionally, this new format includes brief summaries of the breach cases that OCR has investigated and closed, as well as the names of private practice providers who have reported breaches of unsecured protected health information to the Secretary. The following breaches have been reported to the Secretary:

Show Advanced Options

Breach Report Results								
	Name of Covered Entity ≎	State \$	Covered Entity Type \$	Individuals Affected \$	Breach Submission Date \$	Type of Breach	Location of Breached Information	
0	Brooke Army Medical Center	TX	Healthcare Provider	1000	10/21/2009	Theft	Paper/Films	
0	Mid America Kidney Stone Association, LLC	МО	Healthcare Provider	1000	10/28/2009	Theft	Network Server	
0	Alaska Department of Health and Social Services	AK	Healthcare Provider	501	10/30/2009	Theft	Other, Other Portable Electronic Device	
0	Health Services for Children with Special Needs, Inc.	DC	Health Plan	3800	11/17/2009	Loss	Laptop	
0	L. Douglas Carlson, M.D.	CA	Healthcare Provider	5257	11/20/2009	Theft	Desktop Computer	
0	David I. Cohen, MD	CA	Healthcare Provider	857	11/20/2009	Theft	Desktop Computer	
0	Michele Del Vicario, MD	CA	Healthcare Provider	6145	11/20/2009	Theft	Desktop Computer	

There have been 1,142 reported breaches of 500 records or more since October 21, 2009

https://ocrportal.hhs.gov/ocr/breach/breach\_report.jsf







#### Settlements Reached with HHS

#### U.S. Department of Health & Human Services

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#### **Health Information Privacy**

Office for Civil Rights

Civil Rights

**Health Information Privacy** 

OCR Home > Health Information Privacy > Enforcement Activities & Results > Case Examples & Resolution Agreements

#### **HIPAA** Understanding HIPAA Privacy **HIPAA Administrative** Simplification Statute and Rules **Enforcement Activities &** Results **Enforcement Process Enforcement Highlights** Enforcement Data Case Examples & Resolution Agreements Audit Program State Attorneys General How to File a Complaint **News Archive** Frequently Asked Ouestions

#### Data Breach Results in \$4.8 Million HIPAA Settlements

#### **New York and Presbyterian Hospital**

New York and Presbyterian Hospital (NYP) has agreed to pay OCR \$3,300,000 to settle potential violations of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) Privacy and Security Rules, and will adopt a corrective action plan to evidence their remediation of these findings.

- Read the Resolution Agreement
- · HHS Press Release

#### Columbia University

Columbia University (CU) has agreed to settle potential violations of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) Privacy and Security Rules, including a \$1,500,000 monetary settlement and corrective action plan to address deficiencies in its HIPAA compliance program.

- · Read the Resolution Agreement
- HHS Press Release





#### Settlements Reached with HHS

#### U.S. Department of Health & Human Services

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## HIPAA Settlement Underscores the Vulnerability of Unpatched and Unsupported Software

Anchorage Community Mental Health Services (ACMHS) has agreed to settle potential violations of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) Security Rule with the Department of Health and Human Services (HHS) Office for Civil Rights (OCR).ACMHS will pay \$150,000 and adopt a corrective action plan to correct deficiencies in its HIPAA compliance program.

- · Read the Bulletin
- · Read the Resolution Agreement





## HIPAA – Security Goal

Privacy and security is the responsibility of physicians and their staff.



## HIPAA Security Risk Analysis – General Categories

#### ADMINISTRATIVE SAFEGUARDS

- Security Management Process
- Assigned Security Responsibility
- Workforce Security
- Information Access Management
- Security Awareness and Training
- Security Incident Procedures
- Contingency Plan
- Evaluation
- Business Associate Contracts and Other Arrangements

#### PHYSICAL SAFEGUARDS

- Facility Access Control
- Workstation Use
- Workstation Security
- Device and Media Controls

#### **TECHNICAL SAFEGUARDS**

- Access Control
- Audit Controls
- Integrity
- Person or Entity Authentication
- Transmission Security





## HIPAA Security Risk Analysis – General Categories

#### ORGANIZATIONAL REQUIREMENTS

- Business associate contracts or other arrangements
- Requirements for Group Health Plans

## POLICIES AND PROCEDURES AND DOCUMENTATION REQUIREMENTS

- Written policies and procedures to assure HIPAA security compliance
- Documentation of security measures





## HIPAA Security Rule – Risk Management

Under the Administrative safeguards, a covered entity must:

- **Establish and maintain a Security management process.**Implement policies and procedures to prevent, detect, contain, and correct security violations.
  - Implementation specifications:
    - ✓ Risk analysis (Required). Conduct an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity, and availability of electronic protected health information held by the covered entity.
    - ✓ Risk management (Required). Implement security
      measures sufficient to reduce risks and vulnerabilities to a reasonable and appropriate level



## HIPAA Security Rule – Risk Analysis Guidance

Health and Human Services issued guidance for conducting the required risk analysis:

- Scope
- Data Collection
- Identify and document threats and vulnerabilities
- Assess current security measures
- Determine likelihood of threat occurrence
- Determine potential impact of threat occurrence
- Determine level of risk
- Finalize documentation
- Periodic review and updates to the risk analysis

\*http://www.hhs.gov/ocr/privacy/hipaa/administrative/securityrule/radraftguidance.pdf





#### HIPAA Security Rule – Risk Management Process



#### Take-aways

- Know how and where your organization is at risk and determine the appropriate strategy
- Implement continuous risk management process





## HIPAA Security Rule and Meaningful Use

In order to qualify under the Centers for Medicare and Medicaid Services (CMS) EHR incentive program, providers have to show that they are meaningfully using their EHRs by meeting thresholds for a number of objectives. The EHR Incentive Programs are phased in three stages\* with increasing requirements.

Each phase includes the standards of conducting a Security Risk Analysis in accordance with the HIPAA Security Rule.





# Meaningful Use – Stage 1

Stage 1 of the CMS EHR Incentive Program began in 2011. It sets the basic functionalities for EHRs. The requirements are focused on providers capturing patient data and sharing that data either with the patient or with other healthcare professionals.

Protect Electronic Health Information			
Objective	Protect electronic health information created or maintained by the certified EHR technology through the implementation of appropriate technical capabilities.		
Measure	Conduct or review a security risk analysis in accordance with the requirements under 45 CFR 164.308(a)(1) and implement security updates as necessary and correct identified security deficiencies as part of its risk management process.		
Exclusion	No exclusion.		



# Meaningful Use – Stage 2

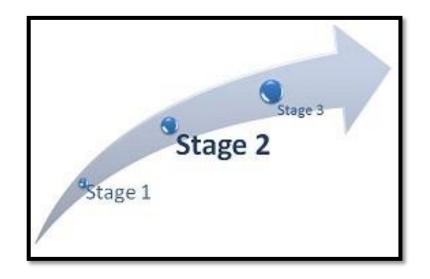
Stage 2 of the CMS EHR Incentive Program began in 2014. It uses advanced clinical processes. The requirements are focused on health information exchange between providers and promote patient engagement by giving patients secure online access to their health information.

# Protect Electronic Health Information Objective Protect electronic health information created or maintained by the certified EHR technology (CEHRT) through the implementation of appropriate technical capabilities. Conduct or review a security risk analysis in accordance with the requirements under 45 CFR 164.308(a) (1), including addressing the encryption/security of data stored in CEHRT in accordance with requirements under 45 CFR 164.312 (a)(2)(iv) and 45 CFR 164.306(d)(3), and implement security updates as necessary and correct identified security deficiencies as part of the provider's risk management process for EPs. Exclusion No exclusion.



### Meaningful Use – Stage 3

Stage 3 of the CMS EHR Incentive Program is scheduled to begin in 2016 but the rule has not been finalized. Policy and Standards committees are developing recommendations to continue to expand meaningful use objectives to improve health care outcomes.





# Myth Fact

The security risk analysis is optional for small providers

False. All providers who are "covered entities" under HIPAA are required to perform a risk analysis. In addition, all providers who want to receive EHR incentive payments must conduct a risk analysis

Installing a certified EHR fulfills the security risk analysis MU requirement

False. Even with a certified EHR, you must perform a full security risk analysis. Security requirements address all electronic protected health information you maintain, not just what is in your EHR

My EHR vendor took care of everything I need to do about privacy and security

False. EHR vendors are not responsible for making their products compliant with HIPAA Privacy and Security Rules. It is solely your responsibility to have a complete risk analysis conducted





# Myth Fact

I have to outsource the security risk analysis

False. It is possible for small practices to do risk analysis themselves. However, doing a thorough and professional risk analysis that will stand up to a compliance review will require expert knowledge.

A checklist will suffice for the risk analysis requirement

False. Checklists can be useful tools, especially when starting a risk analysis, but they fall short of performing a systematic security risk analysis or documenting that one has been performed.

There is a specific risk analysis method that I must follow

False. A risk analysis can be performed in countless ways. OCR has issued Guidance on Risk Analysis Requirements of the Security Rule.





# Myth Fact

My security risk analysis only needs to look at my EHR

False. Review all electronic devices that store, capture, or modify electronic protected health information. Include your EHR hardware and software and devices that can access your EHR data (e.g., your tablet, your mobile phone, etc)

I only need to do a risk analysis once

False. To comply with HIPAA, you must continue to review, correct or modify, and update security protections.



### **Fact** Myth

Before I attest for an EHR incentive program, I must fully mitigate all risks

False. The EHR incentive program requires correcting any deficiencies (identified during the risk analysis) during the reporting period, as part of its risk management process

Each year, I'll have to completely redo my security risk analysis

False. Perform the full security risk analysis as you adopt an EHR. Each year or when changes to your practice or electronic systems occur, review and update the prior analysis for changes in risks



### Knowledge Check

### How often should I complete my Security Risk Analysis?

A full security risk analysis should be performed when you adopt an EHR. Thereafter, you should update the prior analysis for changes in risks every year, or whenever changes to your practice or electronic systems occur.

To comply with HIPAA, you must continue to review, correct, modify, and update security protections. Under the Meaningful Use Programs, Eligible Professionals must conduct a security risk analysis prior to or during their EHR reporting period. A new review must be completed for each subsequent EHR reporting period. A security update is required if any security deficiencies were identified during the risk analysis.



### Knowledge Check

My EHR vendor conducted a Security Risk Review. Is this sufficient to meet the Meaningful Use Core Measure?

Your EHR vendor may be able to provide assistance and training on the privacy and security aspects of the EHR. However, for Meaningful Use, it is your responsibility to complete a thorough security risk analysis, and to implement a plan to mitigate any security risks. Be sure to review not only your EHR hardware and software, but all electronic devices that store, capture, or modify electronic Protected Health Information (PHI). In addition, while your mitigation plan could include updates to your EHR software, it should also include changes in workflow processes or storage methods, and any other corrective action necessary to eliminate the security deficiencies identified in the risk analysis.



### Knowledge Check

My organization has multiple locations. Do we need to conduct a separate Security Risk Analysis for each location?

A thorough Security Risk Analysis should take into account all of the electronic devices that store, capture, or modify electronic Protected Health Information (PHI). Because this may vary by location, a generic, organization-wide SRA may be insufficient. Your SRA should take into account all the variables that may impact the security of PHI for each specific location.



# Risk Analysis - SecurityConnect Demo

MeHI's instance of SecurityConnect can be found at the following link:

https://securityconnect.bphitapps.com/mehi





# MeHI Membership

Type of Service	# Providers	Pricing per Provider	Pricing per Practice
Remote MU Support	1 to 10	\$699	NA
Remote MU Support	11 to 49	\$629 (10% discount)	NA
Remote MU Support	50+	\$559 (20% discount)	NA
Premium Services	NA	NA	\$500

Type of Service	MeHI Members	Non-members
Privacy and Security Workshop (includes access to SecurityConnect Tool)	Free	\$499/Provider
SecurityConnect Tool	Free	-





# Join our Upcoming Workshop

# The #1 reason providers are failing Meaningful Use audits is due to inadequate Security Risk Analysis

Get on track with your Security Risk Assessment and attest to Meaningful Use with MeHI's support & solutions:

- Assess your practice's privacy and security status
- Develop remediation plans to resolve gaps
- Communicate resolution steps to the providers involved
- Track progress in addressing outstanding issues
- Demonstrate compliance

Privacy & Security Workshop

Wednesday April 22, 2015

Cost: Free to MeHI Members

\$499 for non-members





# Questions?



# **Contact Us**

MeHI eHealth Services and Support 1-855-MASS-EHR massehr@masstech.org mehi.masstech.org Thomas Bennett Client Services Relationship Manager (508) 870-0312 ext. 403

tbennett@masstech.org



