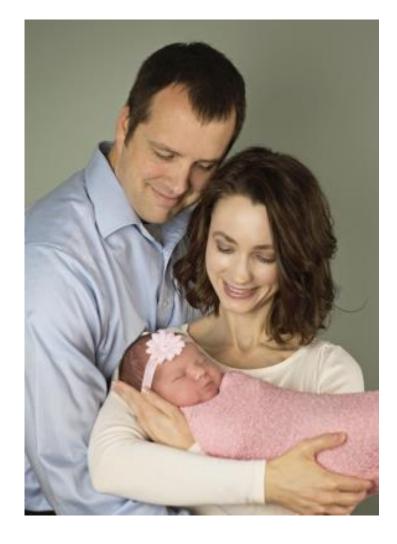


Best Practices for Avoiding & Mitigating HIPAA Breaches in 2016

June 8, 2016

About Me

- 19 Years IT Consulting Experience
- PMP
- University Med Center Y2K to HIPAA to Managing Ethical Hackers
- Managing Partner of FOQUS Partners







- Ensure financially viable organization / reduce risks
- Build patient trust / protect privacy of patients
- Improve healthy outcomes
- Fight for good





Ensure financially viable organization / reduce risks





- Ensure financially viable organization / reduce risks
- Build patient trust / protect privacy of patients
- Improve healthy outcomes



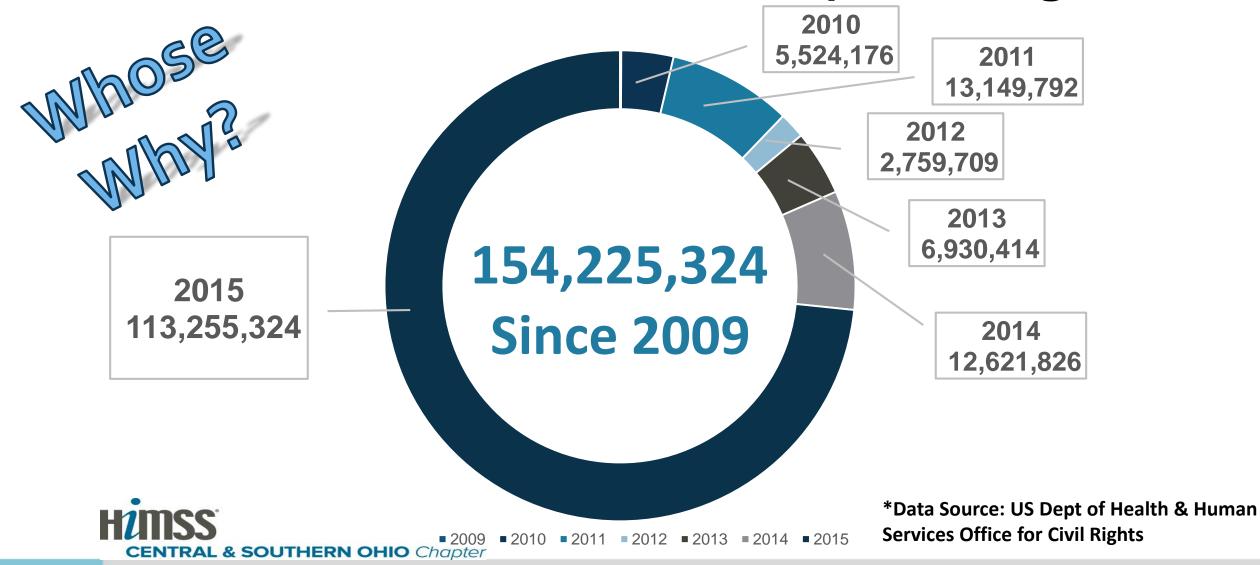


- Ensure financially viable organization / reduce risks
- Build patient trust / protect privacy of patients
- Improve healthy outcomes
- Fight for good

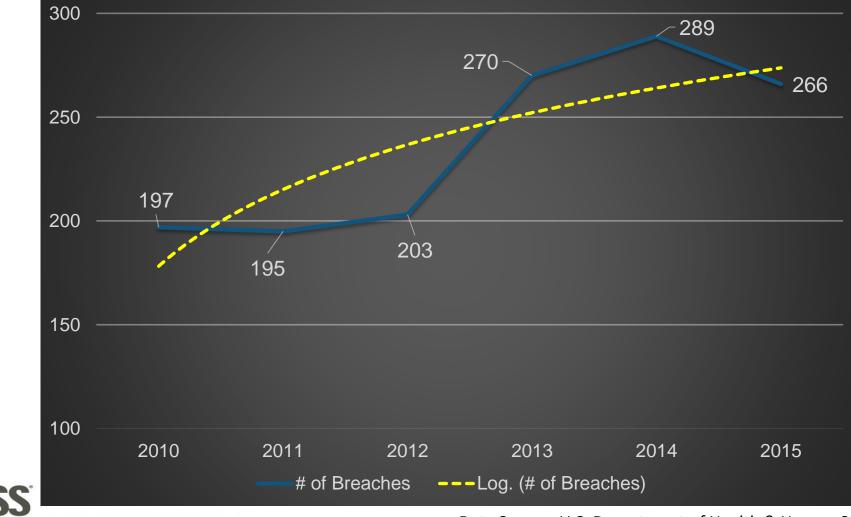




Recap of 2015 Health Data Breach Trends #1: Individuals Affected Skyrocketing



Recap of 2015 Health Data Breach Trends #2: Rate of Increase for Reported Breaches Slowing



CENTRAL & SOUTHERN OHIO Chapter

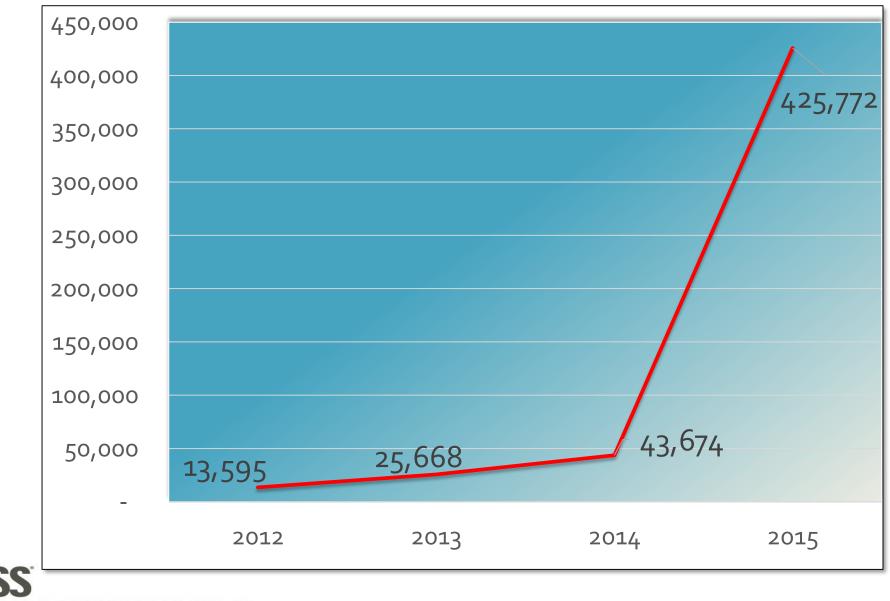
Data Source: U.S. Department of Health & Human Services Office for Civil Rights

Recap of 2015 Health Data Breach Trends What's the Data Telling Us? # of Patients Affected Skyrocketing # of Breaches Consistent Average Impact of Breaches Increasing

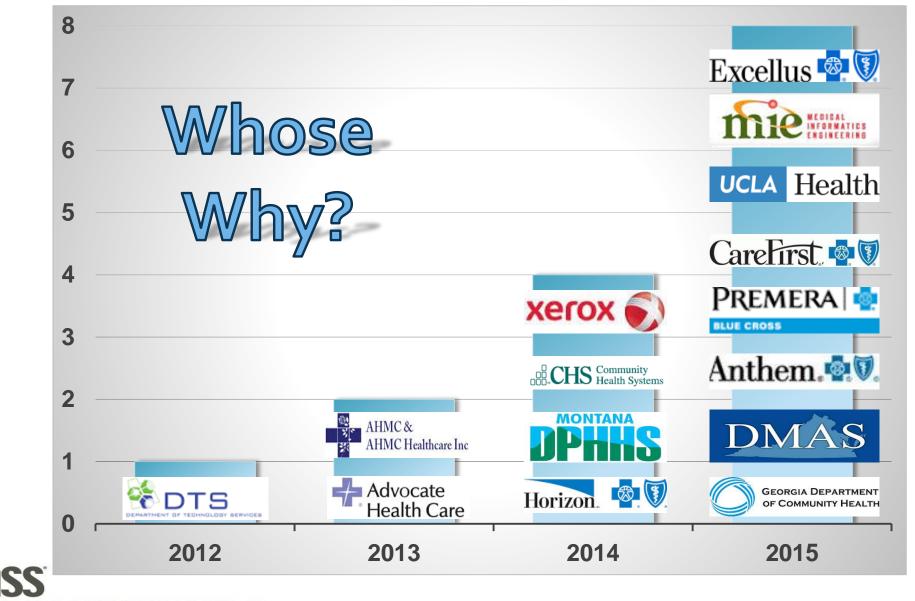




Average # of Patients Affected Per Breach



Health Breaches Affecting 500k+ Individuals



So What?

Ponemon Institute reports average cost of a healthcare data breach is \$363 per exposed personally identifiable record.

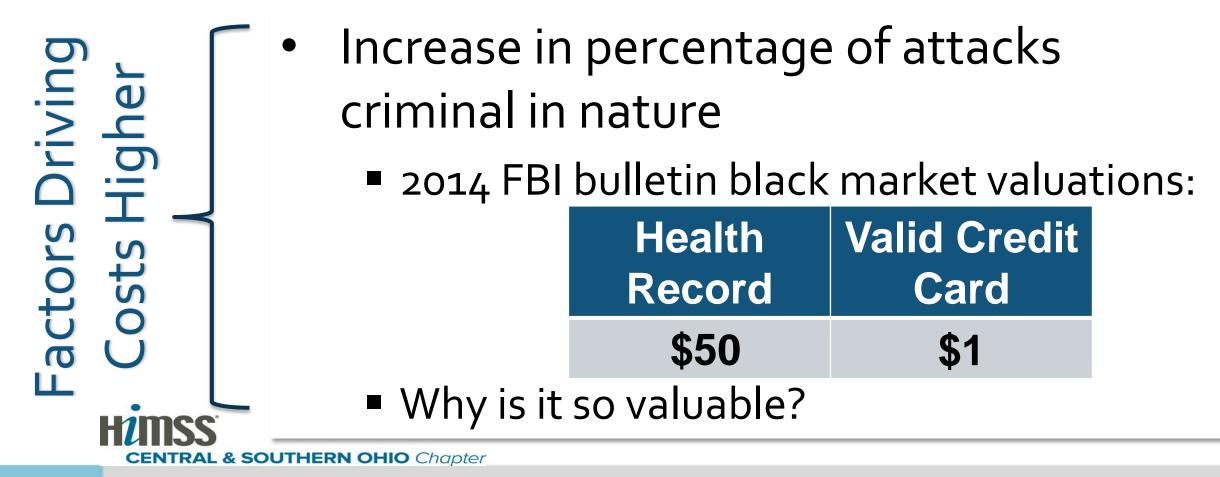


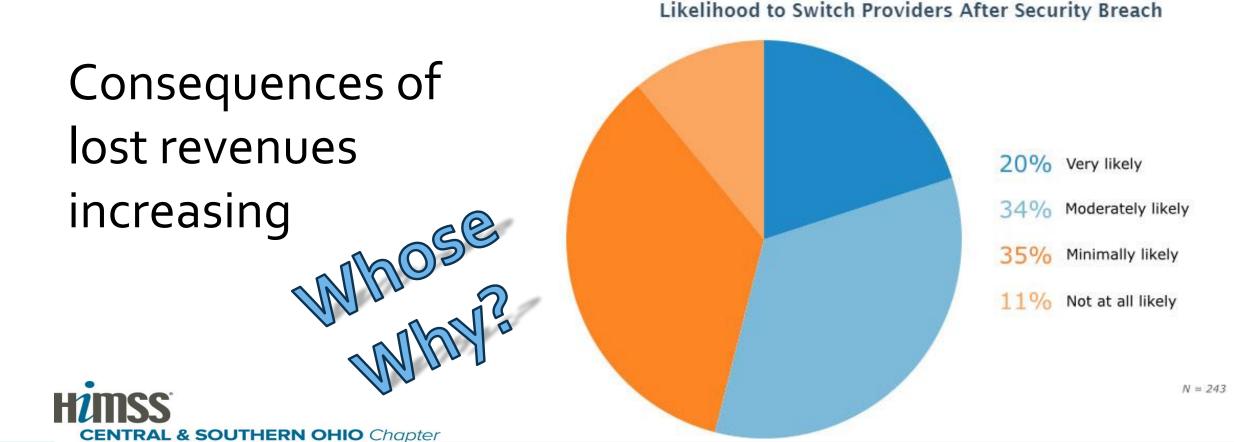
& SOUTHERN OHIO Chapter

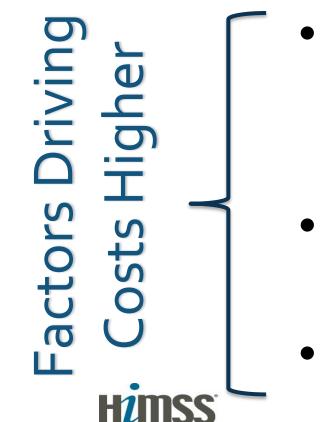
# of Exposed Personally Identifiable Records	Average Cost of Breach
1,000	\$363,000
5,000	\$1,815,000
10,000	\$3,630,000
50,000	\$18,150,000
100,000	\$36,300,000



\$359 in 2014







 Increase in percentage of attacks criminal in nature

Consequences of lost business increasing

Detection & escalation costs increasing

- Incident response team & plan (\$12.6)
- Extensive use of encryption (\$12.0)
- Employee training (\$8.0)
- Business continuity management involved (\$7.1)
- CISO appointed (\$5.6)
- Board of directors involvement (\$5.5)
- Insurance protection (\$4.4)

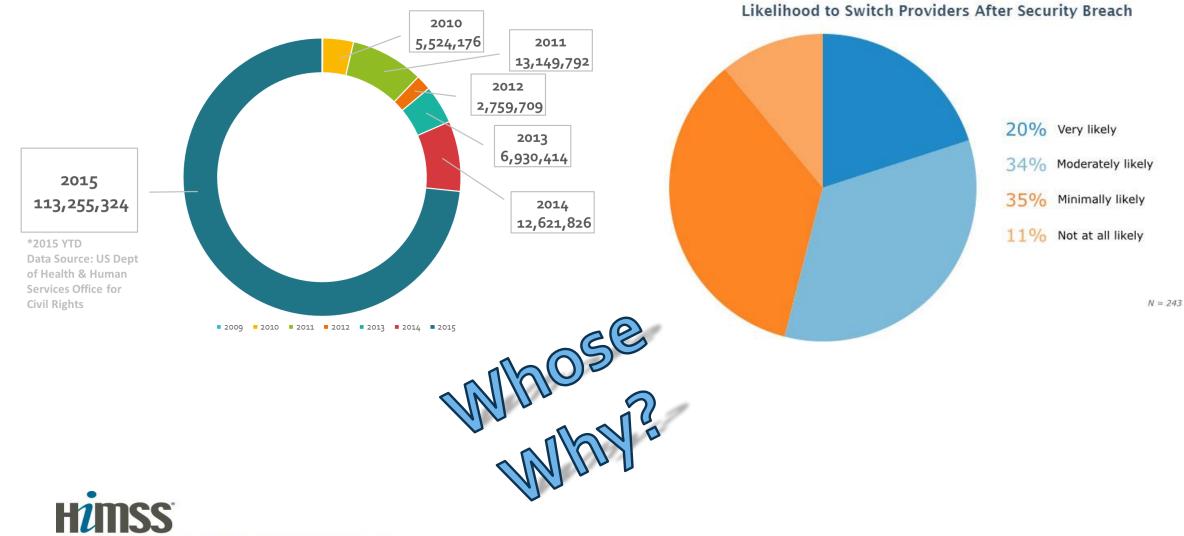
CENTRAL & SOUTHERN OHIO Chapter

gher

sts

actors

Recap



Reasonable Measures for Incident Response

What Is "Reasonable":

- 45 CFR 164.306(b): Assess whether each implementation specification is a reasonable and appropriate safeguard in its environment, when analyzed with reference to the likely contribution to protecting ePHI; and as applicable to the covered entity or business associate –
 - A. Implement the implementation specification if reasonable and appropriate; or
 - B. If implementing the implementation specification is not reasonable & appropriate
 - 1. Document why it would not be reasonable and appropriate to implement the implementation specification; and
 - 2. Implement an equivalent alternative measure if reasonable and appropriate.





Average Time to Identify & Contain Breach

Malicious AttackHuman Error256 Days*158 Days*

*Data Source: Ponemon Institute



Large Breaches Raising The Bar

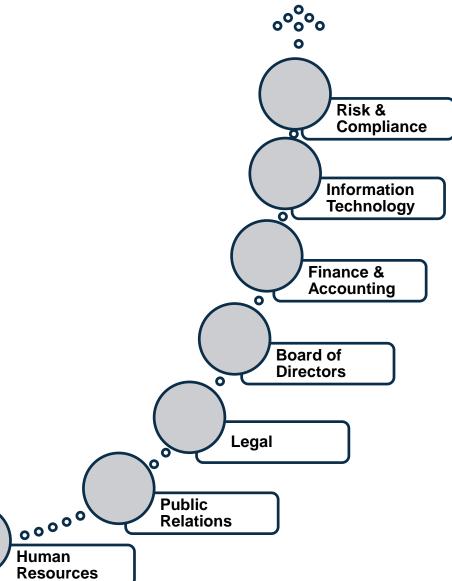
- Exposure
 - Notifications
 - Public hearings
 - Investigations
 - Media
- Lessons learned





Organization-wide Response

- Not just an "IT Issue"
- Significant financial impact
 - Board of directors
 - Patient churn
- Employees
 - Awareness
 - Training





Significant Financial Impact

- Per exposed personally identifiable record*:
 - Avg cost of health data breach: **\$363**
 - Avg savings by involving Board of Directors: **\$5.50**
 - Avg savings by having CISO: **\$5.50**
- Breaches impacting patient decisions

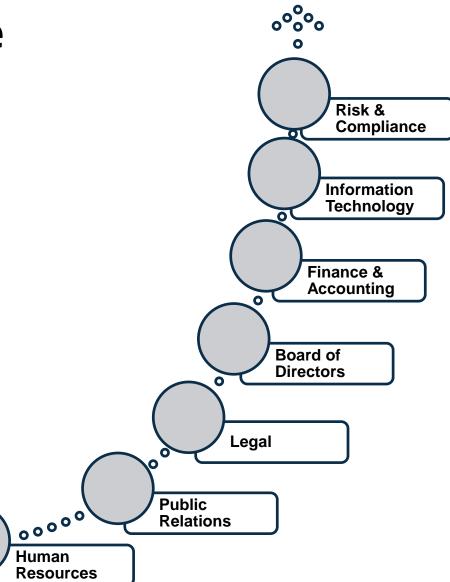




*2015 Ponemon Institute Report

Organization-wide Response

- Not just an "IT Issue"
- Significant financial impact
 - Board of directors
 - Patient churn
- Employees
 - Awareness
 - Training





Employees As Front-Line

- Most likely source of a breach
- Culture of security & privacy
 - Employees as front-line defense
 - Incidents as training input







Have An Incident Response Plan

- Regulatory reporting complexity increasing
- Eliminate ongoing threats
- Avg \$12.50 per record savings



HAVE A PLAN. EMERGENCIES ARE EXPENSIVE.





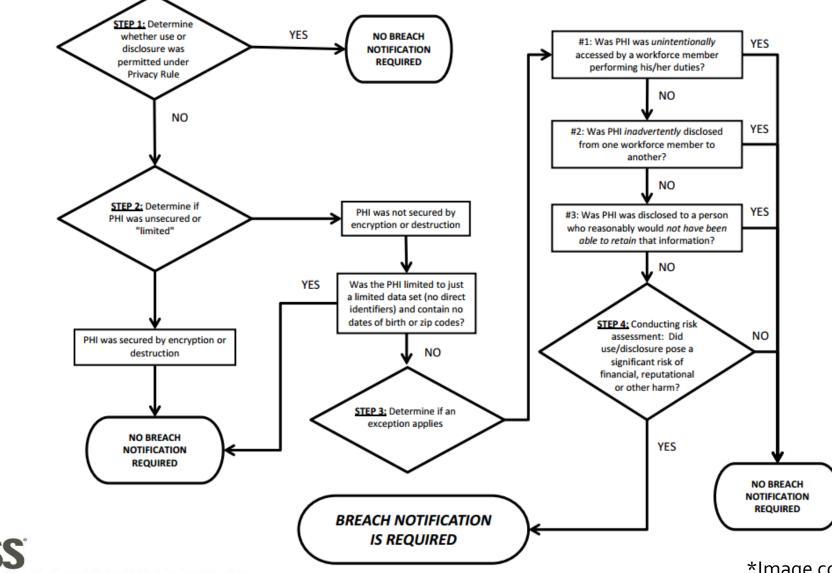


Incident Response Best Practices Differentiate Incidents and Breaches

	Security Incident	Security Breach
What is it?	An event in violation of a security policy such as impersonation, denial of service, theft, intrusion, etc.	Incident resulting in release of protected personal or confidential data.
Regulatory Reporting Requirements	None today	Local, state & federal requirements
Formats	Paper, electronic device, electronic records, physical location	Paper or electronic records
Organizational Tasks	Investigation Remediation Risk Mitigation	Investigation Remediation Risk Mitigation +Notifications +Regulatory Reporting



HIPAA/HITECH Decision Tree to Determine Whether Breach Notification is Required



*Image courtesy healthylawyers.com

Differentiate Incidents and Breaches

- Decision Tree Tools
 - Definition of Breach:

<u>https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-</u> <u>MLN/MLNProducts/Downloads/HIPAAPrivacyandSecurityTextOnly.pdf</u>

 Guide to "Securing" PHI: <u>http://www.hhs.gov/hipaa/for-professionals/breach-notification/guidance/index.html</u>



Differentiate Incident & Breach Types

Incident Types	Breach Types
Social engineering / impersonation	Protected Health Information
Unauthorized physical or electronic access	Mental Health Information
System compromise	Personally Identifiable Information
Account compromise	PCI/Credit Card
Denial of service	Malicious/Theft
Network/ vulnerability scanning	Accidental/Loss
Physical loss/ destruction	Internal
Misconfiguration	External
Software vulnerability	Paper
Licensing violation	Electronic



Tip: prioritize

Incident Response Best Practices Document Breach Reporting Processes

Regulations, Regulations, Everywhere!



Protected Data Types	
Patient Health Data	Regulation Types
Credit Card Data	Federal
Personally Identifiable	State
Data	Local
Education Data	Contractual
SEC Data	



Document Breach Reporting Processes

- Document reporting process by regulation
 - Define reporting teams (Legal, Risk, IT, etc.)
 - Identify internal reviews & approvals
 - Timeline requirements
 - Note: state and local reporting requirements vary





Incident Response Best Practices Document Breach Reporting Processes HIPAA Example:

- Report online at: <u>https://ocrportal.hhs.gov/ocr/breach/wizard_breach.jsf</u>
- > 500 individuals:
 - "Without unreasonable delay and in no case later than 60 calendar days from discovery of breach"
- < 500 individuals:</pre>
 - 60 days of the end of calendar year in which breach discovered
 - Can submit all on same day, but must be on individual submissions



Incident Response Best Practices ORC Breach Portal Reporting

Welcome File a Breach | HHS | Office 1 U.S. Department of Health and Human Services Office for Civil Rights Breach Portal: Notice to the Secretary of HHS Breach of Unsecured Protected Health Information

Form Approved: OM

→ Next

Notice to the Secretary of HHS Breach of Unsecured Protected Health Information

This site is available as we continuously work to make improvements to better serve the public. Should you need assistance with this site or have any qu email <u>ocrprivacy@hhs.gov</u> or call us toll-free: (800) 368-1019, TDD toll-free: (800) 537-7697.

To file a breach report, please enter information in the wizard pages below. A field with an asterisk (*) before it is a required field.





- ۲ Are you a Covered Entity filing on behalf of your organization?
- Are you a Business Associate filing on behalf of a Covered Entity?
- Are you a Covered Entity filing on behalf of a Business Associate?

Covered Entity: Please provide the following information.

* Name of Covered Entity: (No abbreviations, no acronyms):	
* Type of Covered Entity:	Choose Covered Entity Type 💌
* Street Address Line 1:	
Street Address Line 2:	
* City:	
* State:	Choose State
* ZIP:	

Covered Entity Point of Contact Information

* First Name:		* Last Name:		
* Email:				
* Phone Number: (Include area code):	Phone Number	Usage	Edit	Add additional phone
		- Choose Usage -	Remove	

Incident Response Best Practices * Breach Affecting: How many individuals are affected by the breach?

500 or More Individuals 💿 Fewer Than 500 Individuals

	Breach Dates: Please p	rovide the start and end date (if applicable) for the dates the breach occured in.
	* Breach Start Date:	
	* Breach End Date:	
	Discovery Dates: Pleas	e provide the start and end date (if applicable) for the dates the breach was discovered.
	* Discovery Start Date:	
	* Discovery End Date:	
	* Approximate Number of Individuals Affected by the Breach:	
	* Type of Breach:	Hacking/IT Incident 🗏
		Improper Disposal 🧮
		Loss 📃
		Unauthorized Access/Disclosure
	* Location of Breach:	Desktop Computer ≓
		Electronic Medical Record 🗏
		Email 🧮
		Laptop 🧮
		Network Server
		Other Portable Electronic Device 🧮
imee		Paper/Films 📮
		Other 📮
CENTRAL & SOUTHERN OHIO Chapter		

* Type of Protected Health Information Involved in Breach:	 Clinical Demographic Financial Other
* Brief Description of	
* Safeguards in Place Breach:	 None Privacy Rule Safeguards (Training, Policies and Procedures, etc.) Security Rule Administrative Safeguards (Risk Analysis, Risk Management, etc.) Security Rule Physical Safeguards (Facility Access Controls, Workstation Security, etc.)
	Security Rule Technical Safeguards (Access Controls, Transmission Security, etc.)

General Contact Breach Notice	e of Breach and Actions Taken Attestation Summary
Notice of Breach and Actions Take	en: Please supply the required information about notices and actions.
* Individual Notice Provided Start D	
Was Substitute Notice Required?	Projected/Expected End Date: Yes No
Was Media Notice Required?	💿 Yes 🔘 No
Arizo Calife	ama nsas rican Samoa na ornia
* Actions Taken in Response to Breach:	 Adopted encryption technologies Changed password/strengthened password requirements
	Created a new/updated Security Rule Risk Management Plan
	Implemented new technical safeguards
	Implemented periodic technical and nontechnical evaluations
	 Improved physical security Performed a new/updated Security Rule Risk Analysis
	Provided business associate with additional training on HIPAA requirements
	Provided individuals with free credit monitoring
	Revised business associate contracts
	Revised policies and procedures
	Sanctioned workforce members involved (including termination)
	Took steps to mitigate harm
	Trained or retrained workforce members
	Other

General	Contact	Breach	Notice of Breach and Actions Taken	Attestation	Summary			
Please c	omplete t	he Attest	ation form.					

Under the Freedom of Information Act (5 U.S.C. §552) and HHS regulations at 45 C.F.R. Part 5, OCR may be required to release information provided in your breach notification. For breaches affecting more than 500 individuals, some of the information provided on this form will be made publicly available by posting on the HHS web site pursuant to § 13402(e)(4) of the Health Information Technology for Economic and Clinical Health (HITECH) Act (Pub. L. 111-5). Additionally, OCR will use this information, pursuant to § 13402(i) of the HITECH Act, to provide an annual report to Congress regarding the number and nature of breaches that are reported each year and the actions taken to respond to such breaches. OCR will make every effort, as permitted by law, to protect information that identifies individuals or that, if released, could constitute a clearly unwarranted invasion of personal privacy.

I attest, to the best of my knowledge, that the above information is accurate.

*	Manaa	Γ
	Name:	

Date: 01/25/2016

← Back

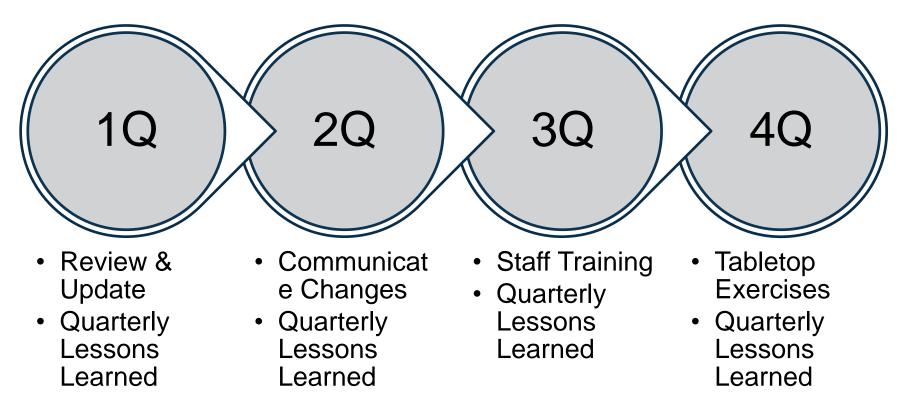






Incident Response Best Practices A Living Plan

Schedule proactive tasks











Patrick Quirk

in: PQUIRK



Patrick@FOQUSPartners.com

859-312-7267

