

**Consulting and Training Solutions** 

## Information Governance, the Next Evolution of Privacy and Security

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2017







Part	IG Topic Area
Part I	"What and Why" of Information Governance in healthcare.
Part II	Identify methods to advance privacy and security practices within an information governance program.
Part III	Why Privacy and Security Programs must evolve
Part IV	Define initial projects to get information governance started.



# Advisors® AHIMA's Information Governance Adoption Model (IGAM™)

 Trusted, Reliable, Information Across the Healthcare Ecosystem to Enable:

Patient and Consumer Engagement

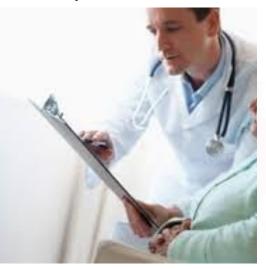
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#### WHAT IS INFORMATION GOVERNANCE (IG)?

AHIMA DEFINES IG AS "AN ORGANIZATION-WIDE FRAMEWORK FOR MANAGING INFORMATION THROUGHOUT ITS LIFECYCLE AND FOR SUPPORTING THE ORGANIZATION'S STRATEGY, OPERATIONS, REGULATORY, LEGAL, RISK, AND ENVIRONMENTAL REQUIREMENTS."







Determines accountabilities for managing information



Promotes objectivity through robust, repeatable processes



Protects information with appropriate controls



Prioritizes investments





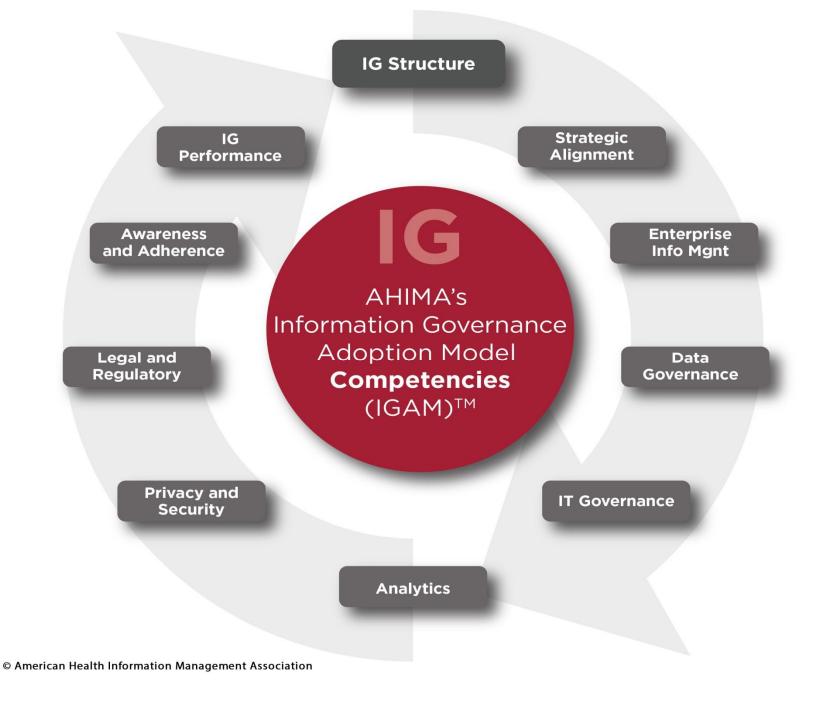
#### What is Information Governance?

#### INFORMATION GOVERNANCE FOR HEALTHCARE INCLUDES:



Adopting an IG program shows an organization's commitment to managing its information as a valued strategic asset.







# IG Can Make a Difference - 2016 OCR Audit Findings

- Insider Threat
- Access Controls
- Mobile Device Security
- Lifecycle of PHI and ePHI
- Business Continuity / Disaster Recovery
- Incomplete or Inaccurate Risk Assessment.
  - Failure to manage identified risks.

Source: Devin McGraw HIPAA Summit 3.29.17. OCR.gov





#### **Insider Threat**

- Consider the insider threat
- Malicious
- Accidental
- Solution
  - Threats extend BEYOND threats to PHI
  - Trust and policy are not enough.
  - Organizations must invest in security, risk, and information governance training and enforcement.







### **HIMSS 2016 Cybersecurity Survey**

76.7%	79.8%	64.5%
67.3%	68.1%	64.5%
58.0%	61.3%	45.2%
52.0%	51.3%	54.8%
48.7%	49.6%	45.2%
32.7%	34.5%	25.8%
30.7%	31.9%	25.8%
30.0%	29.4%	32.3%
	67.3% 58.0% 52.0% 48.7% 32.7% 30.7%	67.3% 68.1% 58.0% 61.3% 52.0% 51.3% 48.7% 49.6% 32.7% 34.5% 30.7% 31.9%

Source: 2016 HIMSS Cybersecurity Survey available at:

http://www.himss.org/hitsecurity





### Mitigating Insider Threat with CyberEducation as part of IG

- Education regarding phishing, whaling, spearphishing should be enterprise wide.
- Be suspicious of unsolicited phone calls, social media interactions, or email messages asking about employees or other internal information.
- Do not reveal financial information via social media or links sent in emails.
- Do not provide company information regarding networks, structures
- Pay attention to the URL of a website!





## Insider Threat - The Link Between Access & CyberThreats

- Review of Access is a Key First Step
  - Appropriate Access: reduce privileges
  - Restrict ability to install and run unwanted software
  - Review admin capabilities to user machines
  - Group policy
  - Administrative users should use non-privileged accounts for standard functions such as web browsing!
  - Firewall best practices





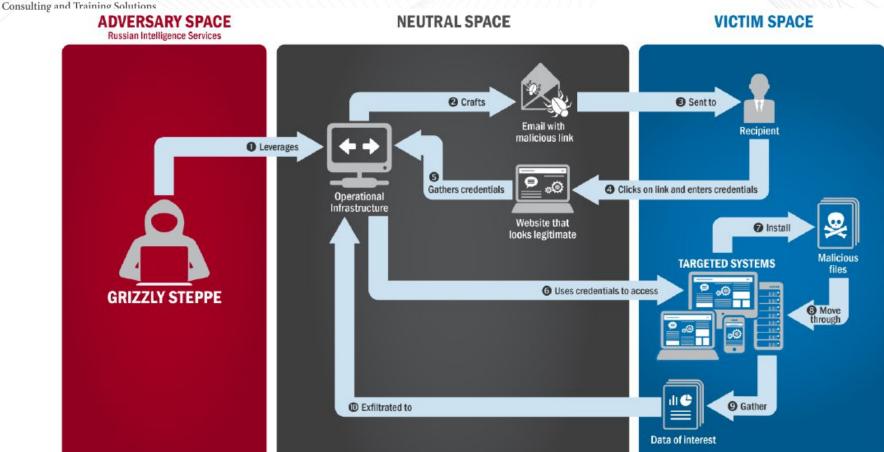
### Insider Threat Example: GRIZZLY STEPPE – Russian Malicious Cyber Activity Report

- Russian civilian and military intelligence
   Services (RIS) to compromise and exploit networks and endpoints associated with:
  - U.S. Government, political, and private sector entities.

Source: Joint Analysis Report (JAR) from Department of Homeland Security (DHS) and the Federal Bureau of Investigation (FBI) <a href="https://www.us-cert.gov/sites/default/files/publications/JAR\_16-20296A\_GRIZZLY%20STEPPE-2016-1229.pdf">https://www.us-cert.gov/sites/default/files/publications/JAR\_16-20296A\_GRIZZLY%20STEPPE-2016-1229.pdf</a>







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### What are the Symptoms of a DoS Attack?

- Inability to access particular website or any website
- S L O W network performance
- Dramatic increase in # of spam emails (DoS attack = email bomb)



### Ransomware Techniques Target Insiders

- Vulnerable Web Servers / Firewall
   Weakness
- Phishing emails
- Brute force hacking
- Drive-by downloading
- Web-based instant message applications





### **Educating Ransomware**

- User receives a message that files have been encrypted and payment is required.
- Do your users know what to do?
  - Contact security officer
  - Contact external / internal resources
  - Legal Council
  - Initiate contingency plans
  - Investigate scope of encrypted data
  - Forensics if needed
  - Law enforcement







### Information Governance – Beyond PHI

- IG is an enterprise wide effort to protect ALL information and access points, not just clinical information.
- Getting Started with IG Practical Examples:
  - 1. Information Asset Inventory
    - Enterprise wide understanding of access
    - Data and Information Stewards
    - Data Owners
  - 2. Information Classification
  - 3. Data and Information Inventory







## Information Governance for Mobile Devices

 Information Governance for mobile computing can include building security into the mobile applications.

- Are your nurses texting your physicians?
- How are they identifying patients?
- Do you offer encrypted texting options?





## Information Governance Mobile Device Policy

- Requires a cross functional IG team
- Clarify how mobile devices are being used
  - EHR Access
  - Financial system access
  - Email
- Consider legal and compliance issues
- Consider Mobile Device Management
- Develop your Communications and Training Plan
- Update and Fine-Tune this one can't stay on the shelf!





#### **Medical and Other Devices**

- As we install more smart devices in our hospitals we increase vulnerabilities.
- Medical devices are more vulnerable to cyber-attacks than normal IT endpoints.
  - Lower security maturity
  - Long useful life end of support software
  - Slow security patch deployment







## IG Best Practices for Securing Medical Devices

- We cannot eliminate risk / Mitigation is Key.
  - Encryption
  - Risk Analysis
  - Authorized Devices Only
  - Automatic Log Off
  - Audit Controls
  - Cybersecurity Patches
- We cannot achieve security for these devices, we can only improve it.
- Resources from FTC, FDA, NIST and IHE.







## **Business Continuity and Disaster Recovery Key Components of Information Governance**

- Disaster Recovery Plan and Business Continuity Plans are part of the organizations overall emergency management plan.
- Tested Policies, Procedures, Systems
- Trained Staff





## **Extending Breach Investigation Process: it's More than PHI**



- Gather all the facts of the potential breach
- Document specifically who, when, where, why and how the situation occurred
- Identify those impacted and what information was potentially compromised
- Analyze & evaluate all the facts objectively to determine whether or not an impermissible access, use, or disclosure of PHI (information!) can be substantiated.





### Information Governance Manages

through the Full Lifecycle

- Creation of information
- Management of information
- Use, Access, Sharing
- Inventory / Tracking
- Final disposition of information
  - All devices, printers containing PHI
  - ePHI
  - Paper
  - Microfilm





#### **IG** for Email



- Major area of focus for IG programs
  - Most common business software application
  - Backbone of business communications
  - Leading piece of evidence requested during discovery phase of civil trials – may contain discoverable information in litigation.
  - Email systems can be hacked, monitored and compromised.





#### **Commit to Info Gov Best Practices**

- Backups
- Risk Analysis
- Staff Training
- Vulnerability Scanning and Patching
- Application Whitelisting
- Incident Response
- Business Continuity
- Penetration Testing



Source: Joint Analysis Report (JAR) from Department of Homeland Security (DHS) and the Federal Bureau of Investigation (FBI) <a href="https://www.us-cert.gov/sites/default/files/publications/JAR\_16-20296A\_GRIZZLY%20STEPPE-2016-1229.pdf">https://www.us-cert.gov/sites/default/files/publications/JAR\_16-20296A\_GRIZZLY%20STEPPE-2016-1229.pdf</a>





## Expanding Privacy and Security to IG – Where to Start?

- New areas included in the IGAM relate to the responsibilities of the Privacy/Security Officer
  - Information Asset Inventory
  - Access Controls
  - Breach Management
  - Mobile Device Management
  - Social Media Controls
  - Email Management
  - Enterprise wide training and awareness programs
  - Compliance monitoring
  - Business Continuity and Disaster Recovery
  - Total cost of ownership
  - Patient information request response







### IGIQ.com is your ONE STOP for all Tools and Resources for Information Governance

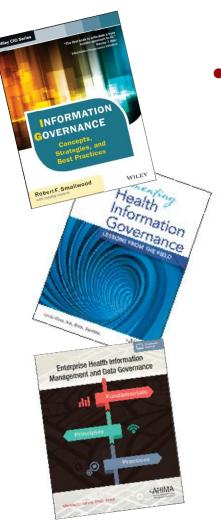








#### **Information Governance Resources**



#### Three IG Books in the AHIMA Store

- Information Governance Concepts,
   Strategies, and Best Practices
   (Smallwood)
- Implementing Health Information Governance (Kloss)
- Enterprise Health Information and Data Governance (Johns)





#### References and Recommended Reading

- Enterprise Health Information
   Management and Data Governance,
   2015. Merida L Johns, PhD, RHIA.
- www.HHS.Gov/HIPAA
- 2016 HIMSS Cybersecurity Survey available at: http://www.himss.org/hitsecurity
- Combined HIPAA/Omnibus Rule
   http://www.hhs.gov/ocr/privacy/hipaa/administrative/combined/index.html
- U.S. Department of Health and Human Services
   Office for Civil Rights: HIPAA Administrative
   Simplification 45 CFR Parts 160, 162, and 164
- Information Governance, 2014. Robert F. Smallwood

- Cohasset Associates and AHIMA. "A
   Call to Adopt Information
   Governance Practices." 2014
   Information Governance in
   Healthcare. Minneapolis, MN.
- Cohasset Associates, 2015.
   Cohasset Associates and AHIMA.
   "Professional Readiness and Opportunity" 2015 Information Governance in Healthcare.
   Minneapolis, MN. Cohasset Associates, 2015.
- Implementing Health Information Governance, 2015. Linda Kloss, MA, RHIA, FAHIMA







A combination of virtual webinars and a one-day, online engagement, this meeting provides a deep dive into the application of IG tools and resources and an understanding of the IG discipline.

February 24

June 2

August 25

September 27

December 8

Visit IGIQ.com to register.







Are You Leveraging Your Organization's Information as a Strategic Asset?

#### YOU SHOULD BE!

This one-day forum utilizes real-world case scenarios and essential tools and techniques to provide hands-on, practical exercises and in-depth discussion on timely topics to help you initiate an enterprise IG strategy for your organization.

Visit IGIQ.com to register.





#### What's Next? Moving Your Organization's IG Forward.



- IG consulting and implementation services (project management)
- GAnalysis and assessment
- On-site or virtual organizationspecific training
- Score validation from the IGHealthRate™ system for IGAM Level 5™ sites



- IG ToolKlt
- White papers
- Infographics
- Blog



- Identify your organization's true level of IG maturity
- Differentiate your organization from its competition and other organizations
- Validate your organization's maturity level with AHIMA
- Receive extensive reporting, guidance, and comparison to other entities of your size and specialty

For more information contact us at (844) 554-4447 or visit IGIQ.org.



- Quick check of your organizations IG maturity
- Begin to understand key success factors tht impact organizational maturity
- Begin to identify strengths and weakness



- Weblnars
- IG Boot Camps
- IG Leadership Forums
- Books
- For more information on IG education, visit ahima.org/infogov

