#### MONITORING AND DOCUMENTING HIPAA PRIVACY AND SECURITY IMPLEMENTATION USING METRICS

#### Mr. Sam Jenkins

TMA Privacy Office Department of Defense



#### Agenda

- Background
- Where were we last year?
- What have we done?
- What we are doing: Metrics
  - Background
  - Development
  - Use

# What is the MHS? TMA?

#### MHS: Military Health System TMA: TRICARE Management Activity



# The MHS includes Provider, Payor, Government, and Life Sciences



U.S. DEPARTMENT OF DEFENSE MILITARY HEALTH SYSTEM

TRICARE: Your Military Health Plan



U.S. DEPARTMENT OF DEFENSE

#### Military Health System

A Healthy Fighting Force Supported By A Combat - Ready Healthcare System





### A Combat-Ready Healthcare System











#### BASIC FACTS OF TRICARE

nission



To enhance the Department of Defense and our nation's security by providing health support for the full range of military operations and sustaining the health of all those entrusted to our care



A health care plan using military health care as the main delivery system

- Augmented by a civilian network of providers and facilities
- Serving our uniformed services, their families, retired military, and their families worldwide



9.2 MILLION TRICARE Eligible Beneficiaries

- 5.0 million TRICARE Prime Enrollees
- 1.62 million TRICARE for Life
- 170,000 TRICARE Plus
- 93,000 US Family Health Plan
- 24,000 TRICARE Reserve Select
- 2.29 million Non-enrolled Users

#### FACILITIES

MHS Direct Care Facilities

- 70 Military Hospitals
- 411 Medical Clinics
- 417 Dental Clinics

#### 132,500

MHS Personnel

- 88,400 Military
- 44,100 Civilian



18,300 Inpatient Admissions

- 5,300 Direct Care
- 13,000 Purchased Care

#### 1.8 MILLION

**Outpatient Visits** 

- 640,000 Direct Care
- 1.17 million Purchased Care

#### 5500

Births

- 1,000 Direct Care
- 1,200 Purchased Care

# Where We Were Last Year

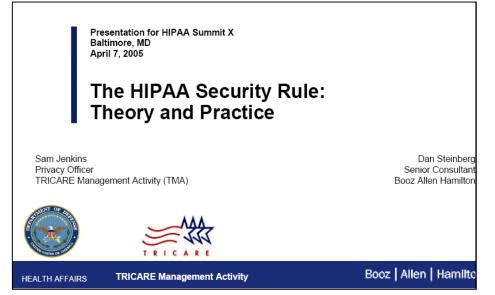


#### The Tenth National HIPAA Summit™

The Leading Forum on Healthcare Privacy, Confidentiality, Data Security and HIPAA Compliance

#### From last year...

 The key to compliance is risk management. To correctly implement the security standards and establish compliance, each covered entity must:



- Assess potential risks and vulnerabilities to ePHI
- Develop, implement, and maintain appropriate security measures given those risks
- Document those measures and keep them current

# How Do We Know If We Are Compliant?



- Policy?
- Procedure?
- Process?

# How Do We Know If We Are Compliant?



- No standard policy, procedure, or methodology can guarantee compliance for all covered entities
- Compliance is different for each organization and no single strategy will serve all covered entities
- ...Compliance is not a one-time goal, it must be maintained. Compliance with the Evaluation Standard at § 164.308(a)(8) will allow covered entities to maintain compliance

# **Executing the Plan**

(from last year...)

- Development and selection of Operationally Critical Threat, Asset and Vulnerability Evaluation (OCTAVE<sup>SM</sup>) as risk assessment methodology
- DoD and Service level policy gap analysis
- Integrated Process Team and Medical Interdisciplinary Readiness Team (MIRT) formation
- □ Initial training in HIPAA and OCTAVE<sup>SM</sup>

### **Executing the Plan**

(from last year...)

- Development of HIPAA Security Program and Strategy
  - Program Management Plan
  - Training and Awareness Program
  - Policy development (Directive, Regulation and Implementation Guides)
  - Oversight and Compliance (Compliance Assurance Framework, Compliance and reporting tools)
  - Incident Response

### What We Planned

(conceptual from last year...)

From 2005 HIPAA Summit 10

#### Oversight and Compliance (1 of 2)

TRICARE Management

Activity

- Compliance is established and maintained by implementing business practices including measurement against metrics and periodic reports Metrics to gauge compliance performance and monitor the programs of HIPAA privacy and eacy with programs through an appropriate reporting structure NIETRICS to gauge complicance Period Security Programs the progress of HIPAA privacy and security programs
  - Measuring success

AFFAIRS

- Completion percentages
- Identifying areas for improvement
- Preparations and contingencies
- Communication of issues

### What We Are Doing – HIPAA Metrics



### To Keep Up the Good Work...

- A lot of things going on in your day-to-day activities
  - Sanctions
  - Complaints and Incidents
  - Access Management
  - Training and Awareness
  - Risk Management
  - Accounting of Disclosures
  - Evaluation
  - Workstation Security





#### ...We Have to Sustain and Improve...

- To sustain and improve how we implement HIPAA, we must identify for each requirement
  - Goal: what we hope to achieve
  - Objective: what we specifically seek to do
  - Evidence of Implementation: proof we do it
  - Level of Effectiveness: how well we do it



### ...And Identify Key Roles and Needs

- HIPAA Security Official
- HIPAA Privacy Officer
- Medical interdisciplinary readiness team (MIRT)
- Senior Executive Staff
- Covered entity workforce
- Self-assessment tool
- Risk analysis / management
- Training and Awareness

### Example: Risk Analysis

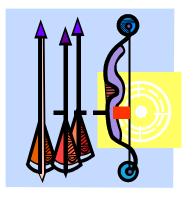
#### 

 Technical and organizational policies, procedures, and processes address the potential risks to PHI



#### 

 A MIRT assesses and documents risks to PHI on a regular basis and as a result of system, operational, or other changes



### Example: Risk Analysis

#### EVIDENCE OF IMPLEMENTATION

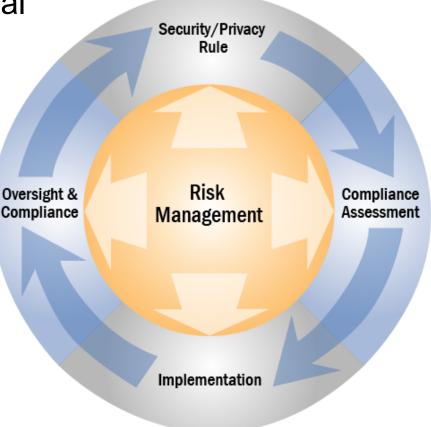
- Updated and disseminated **policy** for conducting information security risk assessments
- 2. Updated and disseminated **procedures** for conducting information security risk assessments
- 3. Procedures for conducting information security risk assessments are **implemented** and reinforced in a consistent manner

- 4. Policies and procedures are routinely **evaluated** for adequacy and effectiveness, including
- 5. The consideration of HIPAA requirements is **institutionalized**



#### **Going Forward**

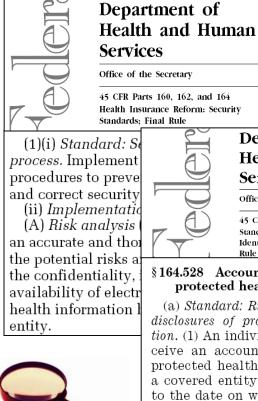
- Ongoing cycle of risk management and improvement
- Self-assessment tool: initial compliance assessment
- Prioritized mitigation based on risk analysis
- Metrics Program guides, measures and reports effectiveness of HIPAA implementation
- Institutionalizes activities of risk management



#### **Developing Measures**



### Analyzed Privacy and Security Rules, Determined Goals and Objectives



Department of Health and Human Services Office of the Secretary 45 CFR Parts 160 and 164 Standards for Privacy of Individually Identifiable Health Information; Final Rule §164.528 Accounting of disclosures of protected health information. (a) Standard: Right to an accounting of disclosures of protected health information. (1) An individual has a right to receive an accounting of disclosures of protected health information made by a covered entity in the six years prior to the date on which the accounting is requested, except for disclosures:

(i) To carry out treatment, payment and health care operations as provided in §164.502;

- Adapted metrics approaches from NIST and Federal CIO Council
- Designed metrics that guide, measure, and report implementation
  - Measures management process
  - Identifies evidence of compliance that emerges as a natural consequence of doing the work

### Identified Indicators of Effectiveness

- Evidence in the form of products and processes that suggest progress toward meeting the Goal (target) with indicated Objective (approach)
  - Objective, obvious actions and products needed to ESTABLISH compliance



 What is being done to MANAGE and IMPROVE implementation



#### Indicators of Effectiveness: 5 Levels

- Each level represents a more complete and effective state of a requirement
  - Level 1: Policies
  - Level 2: Procedures
  - Level 3: Implementation = initial compliance
  - Level 4: Test and validate
  - Level 5: Institutionalize
- Each level includes product and process evidence of compliance and management

#### **Two Kinds of Measures**

- Management: effectiveness of managing HIPAA implementation
- Statistical: completion percentages and trending





#### **Risk Analysis Metric**

What are some compliance and management products and processes for risk analysis?

Please refer to your handout titled "Risk Analysis Metric"

Performance Goal	Technical and organizational policies, procedures, and processes address the potential risks to PHI.				
Performance Objective	The MIRT assesses and documents risks to PHI on a regular basis and as a result of system, operational, or other changes.				
Purpose	To guide, measure, and communicate that the risk to PHI has been assessed across the organization.				
Effectiveness     securit       LEVEL 1     1. A 2       2. Re		<ul> <li>Up-to-date, signed, and disseminated policy for conducting information security risk assessments that includes:</li> <li>1. A Purpose and Scope that states expected goals and boundaries;</li> <li>2. Responsibilities; and</li> <li>3. Criteria for meeting the requirements.</li> </ul>			
	LEVEL 2	<ul> <li>Up-to-date, signed, and disseminated procedures for conducting information security risk assessments that include:</li> <li>Clarification on where, how, when, about what, and to whom a particular procedure applies;</li> <li>Clearly defined roles and responsibilities; and</li> <li>Appropriate points of contact.</li> </ul>			
	LEVEL 3	<ul> <li>Implemented and reinforced procedures for conducting information security risk assessments in a consistent manner through:</li> <li>Distribution to, and periodic acknowledgment from MIRT members of their awareness and acceptance of responsibility;</li> <li>Management of compliance throughout the life of the PHI; including creation, reception, use, edit, transfer, disclosure, deletion, and tracking;</li> <li>Updated MIRT position descriptions that accurately identify and reflect skill needs and responsibilities;</li> <li>Planning, implementing, and maintaining a training and awareness program tailored for MIRT;</li> <li>Scheduling a risk assessment;</li> <li>Conducting a risk assessment report;</li> <li>Presenting a risk assessment report to senior executive staff; and</li> <li>Review and approval by senior executive staff of the risk assessment (OCTAVE<sup>SM</sup>) conducted within the last 3 years?</li> </ul>			

	efi 1. 2. 3. <b>LEVEL 4</b> 4. 5. 6.	<ul> <li>MTF routinely evaluates policies and procedures for adequacy and effectiveness. Activities include:</li> <li>1. A documented and implemented plan of action to progress through Level 4;</li> <li>2. Senior executive staff establishes quality requirements for OCTAVE<sup>SM</sup>;</li> <li>3. Senior executive staff reviews, documents, and communicates recommendations for improvement of each completed OCTAVE<sup>SM</sup>;</li> <li>4. Senior executive staff properly constitutes, ensures training, and monitors meeting attendance of the MISRT;</li> <li>5. Regular risk assessments by MISRT in response to system, operational, and other changes;</li> <li>6. Date of last risk assessment:; and</li> <li>7. Routine preparation and transmittal of reports relating to risk assessments from MISRT to senior executive staff.</li> </ul>				
	M 1. 2. 3. <b>LEVEL 5</b> 4. 5.	<ul> <li>The consideration of HIPAA requirements is pervasive in the culture of the MTF. Evidence includes:</li> <li>A documented and implemented plan of action to progress through Level 5;</li> <li>An implemented and enforced formal methodology, and an ongoing program to identify and institutionalize best practices;</li> <li>The Service Surgeon General formally adopts and enforces the use of OCTAVE<sup>SM</sup> for MTF information security risk assessment;</li> <li>The MTF shares lessons learned and best practices in executing OCTAVE<sup>SM</sup>;</li> <li>Documented evidence that senior management ensures effective remedial action is taken on issues, the prioritization of significant issues, and the development of action plans; and</li> <li>Local Program Objective Memorandum (POM) and allocation of needed resources are based on the identified costs and benefits of managing and sustaining health information assurance through information security risk assessment.</li> </ul>				
Data Source	OCTAVE <sup>SM</sup> reports; Risk Information Management Resource (RIMR), archives of reports to senior executive staff on risk assessment					
Levels of	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	
Effectiveness						

#### **Training and Awareness Example**

- THAT your workforce has completed training is important...
- WHAT your workforce does after training is as important





Do you test and validate that training is working?

#### **Training and Awareness Metrics**

- Management and statistical metrics have the same goal, different approach and evidence
- Management metric focuses on processes and products to gauge compliance
- Statistical metric relies on percentage completion of training per job description



### Comparing the Two Types of Metrics

Goal: All workforce members understand responsibilities for appropriate use and protection of PHI

Management:

Objective: Develop and implement a local HIPAA awareness and training program for all members of the workforce Statistical:

Objective: Train all workforce members on use and protection of PHI

#### **Evidence of Implementation**

- Management: The HIPAA Compliance Officer reports to senior management monthly on the status of the local training and awareness program
- Statistical: Documented pass percentages for job positions

#### Pass Percentage for Job Positions

Summary		
No. of Students:	15720	$\land$
No. of Students Complete:	13730	ion
No. of Students Incomplete:	13730 1990 87.34%	
Percentage of Students Complete:	87.34%	
Students 31-60 Days Delinquent:	133 MHS II.	
Students 61-90 Days Delinquent:	163 NI	
Students 90+ Days Delinquent:	1057	

#### Management and Statistical Metrics

- Handling these separately and keeping them distinct allows for meaningful comparison and trending without bias
- For example
  - A statistical level of effectiveness score of 5, but a management level of effectiveness score of 2 may suggest difficulty in sustaining the Pass Percentages
  - Conversely, a low statistical score and a high management score may indicate positive trends in the near future

#### Accounting of Disclosure Example

TRICARE TRICARE MHS PHIMT MHS PHIMT You are logging into the production server. Information in this version will be retained.	
User Name: Password: Login Enter your User Name and Password to logon.	

#### **Common Goal**

- Applies to both Management and Statistical metrics
- Goal: To protect and enhance rights of beneficiaries by allowing them control of inappropriate use and disclosure of their PHI



### **Objectives**

Management: The MTF implements a process for authorizing and accounting all disclosures, and provides accountings to patients upon request in a timely manner



 Statistical: The MTF accurately authorizes, tracks, and accounts for disclosures

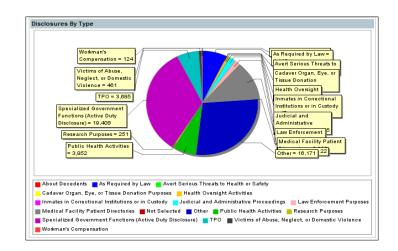


#### **Evidence of Implementation**

Management: The HIPAA Privacy Officer regularly reports to senior executive staff on issues pertaining to accounting of disclosures, and mitigation progress



 Statistical: Comparison of recorded disclosures in PHIMT versus Release of Information records (ROI)



#### Level of Effectiveness

- Management: Based on policies, procedures, implementation, evaluation, and extent to which it has been institutionalized
- Statistical: Number of disclosures recorded in the PHIMT against the number based on ROI
  - Level 1 → 0% 25%
  - Level 2 → 26% 74%
  - Level 3 → 75% 84.9%
  - Level 4 → 85% 94.9%
  - Level 5 → 95% 100%

#### Using a Metric



## Metrics Provide Multiple Benefits

- Guide development and refinement of existing HIPAA program
- Measure effectiveness of implementation with enterprise-wide framework
- Communicate progress and issues to senior executive staff and higher levels

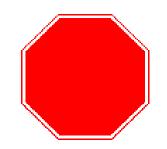
#### Guide and Measure Implementation

- Initially achieve core compliance but seek to improve over time
- One metric for each HIPAA requirement
- Suitable for internal and external review



#### Framework of Effectiveness

- Level 1: Do you have a local policy?
- Level 2: Are your procedures sent to your workforce?





- Level 3: Are local procedures implemented?
- Level 4: Do you test and validate the procedures?
- Level 5: Do senior executive staff fully support the program with funding and resource needs?



## Using the Framework of Effectiveness

#### Levels of Effectiveness

- Represent stages of institutional development
- Requirements for each Level guide steps to take
- Determining Level: Exhaustive and Cumulative

Level of		LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
Effectiveness	>	>	>		

#### Responsibilities

#### HIPAA Security Official / Privacy Officer

- Jointly coordinate activities of the MIRT
- Ensure implementation of requirements
- Measure effectiveness
- Report results to senior executive staff

#### Responsibilities

#### MIRT manages all related activities

- Completes self-assessment
- Conducts risk assessment
- Executes metrics
- Brief results to management
- Senior Executive Staff
  - Staffs, funds, and oversees MIRT
  - Reviews and authorizes self-assessment reports, risk assessment methodology, metrics
  - Regularly reviews health information protection program

# How do you Improve Your Program?



You've measured aspects of your program, and have a lot of information. Now what?

Requirement	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
Risk Analysis	~	~	~		
Training Management	~	~			USTRATIVE
Training Statistical	~	~	>	~	

## Improving Your Program

- Enhance your program by through trending, analysis, and information sharing
  - Trending enables you to detect possible problems
  - Analysis determines the details of problems
  - Information sharing promotes awareness to prevent negative impact

#### **Reporting on Effectiveness**

- Overdue Requirements Reported Monthly
  - What has not been done. All requirements that have not been addressed within predetermined threshold (delinquent) as determined by risk analysis
- Active Re conceptual Reported Quarterly
  - What is being done. The vulnerabilities whose mitigation is in progress. Requirements whose mitigation fall outside of acceptable thresholds are reported as Overdue

#### **Reporting on Effectiveness**

- Resolved Requirements Reported Quarterly
  - What has been done.
     Successfully addressed vulnerabilities, as of the current quarter, whose mitigation has been verified and validated
- Complian Conceptual Conceptual Reported Annually
  - What does not require action. The requirements that are not applicable, whose risk has been accepted, or have been successfully resolved

### Improving the Enterprise

- Reporting effectiveness enables enterprise-wide trending, analysis, and higher level oversight
  - Identify and mitigate local issues efficiently
  - Unify improvements across the enterprise
  - Promote cross-organization collaboration that establishes basis for cost-effective solutions

#### Keys to Success

- Involvement of HIPAA Security Officials, HIPAA Privacy Officers, and cross-discipline personnel
- Senior leadership buy-in
- Beta testing with diverse site selection
- Receptive to issues, comments, suggestions
- Remember: this is good business

# Our Commitment

The TRICARE Management Activity (TMA) Privacy Office is committed to ensuring the Privacy and Security of patient information at every level as we deliver the best medical care possible to those we serve.

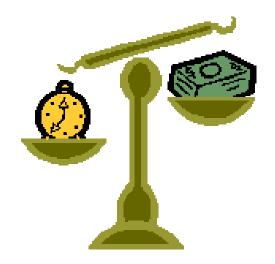


TRICARE Management Activity

Confidentiality ----- Integrity ----- Availability

#### Resources

- TMA Privacy Web Site: <u>www.tricare.osd.mil/tmaprivacy/HIPAA.cfm</u>
- Contact us at the TMA Privacy Office: privacymail@tma.osd.mil
- Questions?



# Accomplishments



#### **HIPAA** Application Suite

#### Learning Management System

- Delivers online customized HIPAA Privacy and Security courses to 160,000+ Military Health System (MHS) personnel
- Captures the MHS organizational hierarchy and tracks student learning activities
- Protected Health Information Management Tool
  - Simplifies/automates manual processes such as disclosure accounting, PHI access, and alternative communication requests
  - Patient demographics pre-populated (over 9 million records)

#### HIPAA BASICS<sup>TM</sup>

- Online tool for conducting baseline assessment of HIPAA Privacy compliance
- Reporting capabilities at various levels of the organizational hierarchy

#### Communications

- Help Desk (email and outbound phone support)
  - Assists tool users with subject matter and technical issues.
  - Assist beneficiaries with concerns
- TMA Privacy Office Website
  - Information Papers
  - Policy and Procedures
  - Forms/Templates
  - Workforce Training Announcements
  - Customizable presentations for special interest groups

Listserv

- Periodic updates on new postings to website and related industry news
- Training announcements
- Tool modification and downtime bulletins

#### **Training and Awareness**

- Learning Management System
  - Online role specific training courses
- WebEx (just in time training)
  - Interactive on line training
  - Includes presentations, live demonstrations, open discussions/Q&A
  - Attendance and credit tracked through student's LMS account
- 2005 U. S. Distance Learning Association 21<sup>st</sup> Century Best Practices Award

- stem 
  Annual Training Conferences
  - Attended by Military Treatment Facility HIPAA Privacy and Security Officers
  - Four identical sessions held each year in various geographic locations
  - Topics include: Privacy and Security Essentials, War gaming exercises, Uses and Disclosures, Tool training, Risk Management, Metrics, Complaint Process