Slide 1		
	Health Management	
	Information Systems Unit 3	
	Electronic Health Records	
	Component 60-bits Health IT Windows Controlum Venent 1 of 94 2000 1	
	Version 1.07th/12010	
Slide 2	Objectives	
	Discuss how health information exchange	
	(HIE) and Nationwide Health Information Network (NHIN) impact health care delivery and the practice of health care	
	providers Outline issues regarding governmental	
	regulation of EHR systems such as meaningful use of interoperable health	
	information technology and a qualified EHR Health IT Stratford Computer Ventors 1 of the 2010	
Slide 3		1
Silue 3	Objectives continued	
	Summarize how the Institute of Medicine's Vision for 21st Century Health Care and	
	Wellness may impact health management information systems.	
	Identify how ongoing developments in biomedical informatics can affect future uses and challenges related to health	
	information systems.	
	Component 6/UHci Health IT Workform Controlum 3 Ventors 1 OFed 2016 3	

Slide	4

Health Information Exchange (HIE)

 Electronic movement of health-related information among organizations according to nationally recognized standards

Defining Key Health Information Technology Terms http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_10741_848133_0_0_18/10_2_hit_ts

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Slide 5

Perspectives on Health Information Exchange

- · Models of HIE architecture
 - Centralized
 - · Shared repository
 - Federated (or decentralized)
 - Data source organization maintains custodianship and control over the patient's medical record
 - Hybrid
 - Miytura

Health Information Exchanges: Similarities and Differences http://www.himss.org/content/files/RHIO/HIE_CommonPracticesWhitePaper20090330.pdf

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Slide 6

HIE Impact

- · Health care delivery
 - Clinical and financial
- · Practice of health care providers
 - Real-time patient data at the point-of-care
 - Access to patients' longitudinal test results
 - Productivity gains

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Nationwide Health Information Network (NHIN)

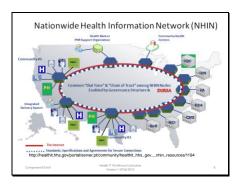
- Standards
- Protocols
- · Legal agreements
- Specifications
- Services



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Slide 8



Slide 9

Perspectives on the NHIN

- Helps achieve the goals of HITECH
- Critical part of the national health IT agenda
- · Enable health information
 - To follow the consumer
 - Be available for clinical decision making
 - To support appropriate use of health information

Communication

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NHIN Evolution

- Driven by emerging technology, users, uses, and policies
- NHIN Direct Project
 - Expand the standards and service descriptions available
- Address the key Stage 1 requirements for meaningful use
- Provide an easy "on-ramp"

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Slide 11

Impact of NHIN

- · Health care delivery
- Establishes a standards-based infrastructure
- Increases the ability to collect and store aggregated data
- · Practice of health care providers
 - Provides a care coordination exchange platform

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Slide 12

Governmental Efforts Related to EHRs

- Office of the National Coordinator (ONC) Initiatives
 - Nationwide Health Information Network (NHIN)
 - State-Level Health Initiatives
 - State-level Health Information Exchange Consensus Project
 - State Alliance for e-Health
 - Health Information Security and Privacy Collaboration (HISPC)

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Slide 13 Governmental Efforts Related to **EHRs** • ARRA - HITECH Programs Meaningful use of interoperable health information technology and qualified EHRs Certified electronic health record technology - "qualified EHR" - HIT Advisory Committees Slide 14 Governmental Efforts Related to **EHRs** Office of the National Coordinator Authorized Testing and Certification Body (ONC-ATCB) - Established to ensure that "Certified EHR Technology" will be available for adoption

Slide 15

Certified EHR Technology

- Complete EHR or a combination of EHR Modules, each of which:
 - Meets the requirements included in the definition of a Qualified EHR; and
 - Has been tested and certified in accordance with the certification program established by the National Coordinator as having met all applicable certification criteria adopted by the Secretary

 I Register, July 28, 2010 http://edocket.access.gpo.gov/2010/pdf/2010-17210.pdf

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"Qualified EHR" Definition

- Electronic record of health related information Patient demographic and clinical health information
- Capacity to provide specific functions

http://ecfr.gpoaccess.gow/cgit/text/text-idx?c=ecfr&sid=5b9aetc60433f81ace3db87411a83891&rgn=div5&view=text&node 5:10.1.4.73&idno=45

Slide 17

Governmental Efforts Related to **EHRs**

- · Federal Advisory Committees
 - HIT Policy Committee
 - HIT Standards Committee

Slide 18

A Vision for 21st Century Health Care and Wellness

- Systematically organized and acculturated health care system
- Easy and rewarding for providers and patients to do
 - the right thing
 - at the right time
 - · in the right place

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Information-intensive Aspects of IOM's Vision

- Important health care IT capabilities
 - Comprehensive data on patients' conditions, treatments, and outcomes
 - Cognitive support for health care professionals and patients
 - Cognitive support for health care professionals
 - Instruments and tools

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Slide 20

Information-intensive aspects of IOM's vision

- · Important health care IT capabilities
 - Rapid integration of new instrumentation, biological knowledge, treatment modalities, etc.
 - Accommodation of the growing heterogeneity of locales for the provision of care
 - Empowerment of patients and their families in effective management of health care decisions and execution

Computational Technology for Effective Health Care: Immediate Steps and Strategic Directions http://www.ncbi.nlm.nlh.gov/bookshell/br.fcgi?book=ngp12572&part=a20016f7dddd00032

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Guiding Principles of IMO's Vision

- Principles for evolutionary change
 - Focus on improvements in care
 - Seek incremental gain from incremental effort
 - Record available data
 - Design for human and organizational factors
 - Support the cognitive functions of all caregivers

Computational Technology for Effective Health Care: immediate Steps and Strategic Directions. http://www.ncbi.nlm.nlh.gov/bookshell/br.fcgi?book=nap125728.part=a20016f7dddd00032

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Guiding Principles of IMO's Vision

- Principles for radical change
 - Architect information and workflow systems
 - Archive data for subsequent re-interpretation
 - Create technologies that identify and eliminate ineffective work processes
 - Create technologies that clarify the context of data

Computational Technology for Effective Health Care: Immediate Steps and Strategic Directions. http://www.ncbi.nlm.nih.gov/bookshell/br.fcgi?book=nap125728.part=a20016f7dddd00032

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Summary

- · External Influences
 - HIE
 - NHIN
 - ARRA/HITECH
 - IOM's Computational Technology for Effective Health Care: Immediate Steps and Strategic Directions

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