Slide 1		
Cildo i		
	Health Management	-
	Information Systems	
	Unit 3 Electronic Health Records	
	Component 6 UniC Health IT Workforce Curriculum Version 1.0 Fel 2000 1	
Slide 2	Objectives	
	State the similarities and differences between an EMR and EHR	
	Identify attributes and functions of an EHR Describe the perspectives of health care	-
	providers and the public regarding acceptance of or issues with an EHR	·
	Explain how the use of an EHR can affect	
	patient care safety, efficiency of care practices, and patient outcomes Patient	
	Version Lurial Aria	
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Slide 3	Purpose of a Patient (medical) Record	
	"to recall observations, to inform others, to	
	instruct students, to gain knowledge, to monitor performance, and to justify interventions"	
	Reiser, S. (1991). The clinical record in medicine. Part 1:Learning from cases. Annals of Internal Medicine, 114(10):902-907.	
	Legal business record	
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Electronic Medical Record (EMR)

- Electronic record of health-related information on an individual
 - within one health care organization

Defining Key Health Information Technology Terms http://healthit.hhs.gov/portal/server.pl/gateway/PTARGS_0_10741_848133_0_0_18/10_2_hit_ter

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Slide 5

EMR Purpose

 Provide an electronic equivalent of an individual's legal medical record
 Intra-organizational

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Electronic Health Record (EHR)

- Electronic record of health-related information on an individual
 - across more than one health care organization

Defining Key Health Information Technology Terms http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_10741_848133_0_0_18/1 0_2_hit_terms.pdf

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EHR Purpose

- Provide an electronic equivalent of an individual's health record for use by providers and staff across more than one health care organization
- Support efficient, high-quality integrated health care, independent of the place and time of health care delivery

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Slide 8

EMR versus EHR

EMR	EHR
A record of medical care created,	A repository of individual health
managed, and maintained by one	records that reside in numerous
health care organization (intra-	information systems and locations
organizational)	(inter-organizational)
Integration of health care data from a participating collection of systems from one health care organization	Aggregation of health-related information into one record focused around a person's health history, i.e., a comprehensive, longitudinal record
Consulted by authorized clinicians and	Consulted by authorized clinicians and
staff within one health care	staff across more than one health care
organization.	organization
Data continuity throughout one health	Data interoperability across different
care organization	organizations

Slide 9

EHRs Versus Paper Records

- EHRs can make a patient's health information available when and where it is needed
- EHRs can bring a patient's total health information together in one place, and always be current
- EHRs can support better follow-up information for patients

Electronic Health Records at a Glance, https://www.cms.gov/EHRIncentivePrograms

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EHRs Versus Paper Records

- EHRs can improve patient and provider convenience
- EHRs can link information with patient computers to point to additional resources
- EHRs don't just "contain" or transmit information, they also compute with it
- · EHRs can improve safety

Electronic Health Records at a Glance, https://www.cms.gov/EHRIncentivePrograms/

Slide 11

EHRs Versus Paper Records

- EHRs can deliver more information in more directions, while reducing "paperwork" time for providers
- EHRs can improve privacy and security
- EHRs can reduce costs

Electronic Health Records at a Glance, https://www.cms.gov/EHRIncentivePrograms

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Attributes

- Provides secure, reliable, real-time access to patient health record information, where and when it is needed to support care
- Captures and manages episodic and longitudinal electronic health record information

HIMSS Electronic Health Record Definitional Model, Version 1.0, http://www.providersedge.com/ehdocs/ehr_articles/HIMSS_EMR_Definition_Model_v1-0.pdf

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Attributes continued

- Functions as clinicians' primary information resource during the provision of patient care
- Assists with the work of planning and delivering evidence-based care to individual and groups of patients
- HIMSS Electronic Health Record Definitional Model, Version 1.0, http://www.providersedge.com/ehdocs/ehr_articles/HIMSS_EMR_Definition_Model_v1-0.pdf

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Slide 14

Attributes continued

- Supports continuous quality improvement, utilization review, risk management, and performance monitoring
- Captures the patient health-related information needed for reimbursement

 HIMSS Electronic Health Record Definitional Model, Version 1.0, http://www.providersedge.com/ehdocs/ehr_articles/HIMSS_EMR_Definition_Model_v1-0.pdf

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Attributes continued

- Provides longitudinal, appropriately masked information to support clinical research, public health reporting, and population health initiatives
- Supports clinical trials

 HIMSS Electronic Health Record Definitional Model, Version 1.0, http://www.providersedge.com/ehdocs/ehr_articles/HIMSS_EMR_Definition_Model_v1-0.pdf

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HL7 EHR Functions

- · Direct care functions
- Supportive functions
- Information infrastructure functions

HL7 EHR System Functional Model http://www.hl7.org/ehr/downloads/index_2007.asp

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Direct Care Functions

Subset	Examples
Care management	Identify and maintain a patient record Manage patient demographics Manage problem lists
Clinical decision support	Support for standard care plans, guidelines, protocols Support for medication and immunization administration Orders, referrals, results and care management
Operations Management and Communication	Clinical workflow tasking Support clinical communication Support for provider-pharmacy communication

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Supportive Functions

- Clinical Support
- Measurement, Analysis, Research and Reports
- · Administrative and Financial

HL7 EHR System Functional Model http://www.hl7.org/ehr/downloads/index_2007.as

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Information Infrastructure

Security	Standards-based Interoperability
Health Record Information and Management	Business Rules Management
Registry and Directory Services	Workflow Management
Standard Terminologies and Terminology Services	

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EHR Acceptance

- · Health care provider
 - Increasing momentum for widespread adoption and implementation of EHRs
 - ARRA/HITECH
 - Authorized Testing and Certification Body by the Office of the National Coordinator

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EHR Acceptance

- Public
- Harris Interactive Survey from 2005

 - Mixed Feelings
 45% EHR system important
 - Concern over

 - Privacy
 Increase rather than decrease of medical errors

http://www.rsna.org/Publications/rsnanews/sep05/ihe.cfm

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Attitudes to EMRs

How much do you agree or disagree with the following statements about electronic health records?"

	2009	2010
Percent answering "Strongly/Somewhat Agree"	%	%
All physicians treating me should have access to information contained in my EMR	78	78
An EMR would be a valuable tool to track the progress of my health	72	71

http://www.harrisinteractive.com/NewsRoom/HarrisPolls/tabid/447/ctl/ReadCustom%20Default/mid/1508/ArticleId/414/Default.aspx

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Slide 23

Barriers to Adoption

- · Cost of conversion
- · Perceived lack of ROI
- Technical and logistic challenges
- Privacy and security concerns

Blumenthal, D. Stimulating the Adoption of Health Information Technology" New England Journal of Medicine, http://www.nejm.org/doi/pdf/10.1056/NEJMp0901592

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EHR Affect on Patient Care Safety

- Reduces the need to repeat tests
- · Reduces the number of lost reports
- Supports provider decision making

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EHR Affect on Efficiency

- Improves accessibility of patient information
- Better data capture at the point of care
- Integrates data from multiple internal and external sources
- Facilitates the co-ordination of health care delivery

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EHR Affect on Patient Outcomes

- · Has the potential to
- Improve the quality of patient care
- Help providers practice better medicine
- Provides seamless exchange of information among providers

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