Slide 1		
	Naturalia sand Harith	
	Networking and Health Information Exchange	
	Unit 4f	
	Basic Health Data Standards	
	Component 9Unit #4f Health IT Workforce Curriculum 1	
	Component 9 Unit #4f Health TT Workforce Curriculum 1 Version 1.0 Fall 2010	
01.1 0		1
Slide 2	Unit 4f Objectives	
	Discuss Clinical Data Architecture, Continuity of Care Document, and	
	Continuity of Care Record Standards	
	Component 9Unit #4f Health IT Workforce Curriculum 2 Version 1.0 Fall 2010	
Slide 3	Clinical Document Architecture	
	Document markup standard that specifies	
	the structure and semantics of "clinical documents" for the purpose of exchange.	
	Defined information object that can include text, images, sounds, and other multimedia content.	
	The architecture specifies the schemas required for exchange.	
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		-

Characteristics of CDA

- Persistence
- Stewardship
- Potential for authentication
- Context
- Wholeness
- · Human readability

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Key aspects of CDA

- The CDA specification is richly expressive and flexible.
- · Encoded in XML.
- Data elements derive their meaning from the HL7 RIM
- · Uses the HL7 Data Types.

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CDA

- Allow cost effective implementation across as wide a spectrum of systems as possible.
- Support exchange of human-readable documents between users, including those with different levels of technical sophistication.
- Promote exchange that is independent of the underlying transfer or storage mechanism.

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Major components

- A CDA document is wrapped by the <ClinicalDocument> element, and contains a header and a body.
- The header lies between the <ClinicalDocument> and the
 StructuredBody> elements and identifies and classifies the document and provides information on authentication, the encounter, the patient, and the involved providers.

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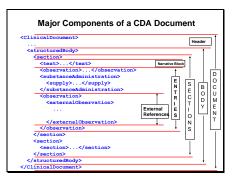
XML Markup for CDA

- XML tag is defined <tag>
- · Data is expressed as data element name
- · Data value is "value"
- Each entry has a start tag <tag> and a stop tag <tag>.
- Entries may be nested.
- <code> code = "11488-4" </code>

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Slide 9



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Header components

sets context for

the entire

document

- Contextual header
- AuthorConfidentiality
- Data entererHuman language
- Informant
- Legal authenticator
- Participant - Record target

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Major components

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ClinicalDocuments
... CDA Header ...
<StructuredBodys
<sections
<texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</texts...</td>classing
classing
<pr vation>...</ExternalObservation>

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CDA specification

The CDA specification permits the use of document codes and section codes. Thus, it is possible to differentiate a "Consultation Note" from a "Discharge Summary" because the two will have distinct document codes in the document instance.

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```
section>
code code="10153-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC7">
codeSystemName="LOINC7">
codeSystemSame="LOINC7">
codeSystemSame="LOINC7">
codeSystem="Colored lates of the colored lates of the c
```

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LOINC document codes

- 28568-4 Visit Note Emergency Department Physician
- 34862-3 Admission Evaluation Note Inpatient Attending General Medicine
- 11488-4 Consultation Note {Setting} {Provider}

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Continuity of Care Document

- The approach taken in the development of CCD is to reflect the CCR requirements in a CDA R2 framework, and to do so in such a way that CDA is constrained in accordance with models being developed by other HL7 committees.
 This has helped accelerate convergence within HL7 around a common "clinical statement" model, leading to closer collaboration with several domain committees, such as:
- - Results: Lab committee

 - Family History: Genomics committee
 Allergies, Problems: Patient Care committee
- Medications: Pharmacy committee

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CCD Sections

- · Payers
- · Medications
- · Advance Directives
- · Medical Equipment
- Support
- Immunizations
- · Functional Status
- Vital Signs
- Problems
- Results
- Family History
- Procedures
- Social History
- Encounters
- · Alerts, allergies, AE
- · Plan of Care

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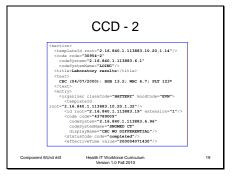
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CCD 2.16.840.1.113883.19.1 /CCRDataObjectID> <Type> <Text>Assessment Time</Text> Health IT Workforce Curriculum Version 1.0 Fall 2010

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Continuity of Care Record

- · Patient health summary detail
- · Flexible document
- Relevant and timely core information about patients for exchange among patients
- Standard from ASTM
- XML syntax

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CCR content

- Demographics
- Diagnosis
- Problem list
- Medication
- Allergies
- InsuranceCare Plan

Component 9/Unit #4

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Summary

- Structure complicated but rote
- Content simple data elements with XML tags
- Permits migration from narrative text to coded data.
- Internationally becoming the exchange document of choice.

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