

A content profile is...

- A sharable information component that can be exchanged...
 - within an HIE or RHIO (XDS)
 - via Media or USB Device (XDM)
 - via Reliable Messages (XDR)
- Document content using standards
 - CDA Release 2.0
 - HL7 Care Record Summary
 - ASTM/HL7 Continuity of Care Document
- Library of Reusable Parts



IHE Content Profiles Standards and Profiles

- CDA Release 2.0
- Logical Observation Identifier Names and Codes (LOINC)
- HL7 Care Record Summary
- ASTM/HL7 Continuity of Care Document
- XDS/XDR/XDM
- Notification of Document Availability
- Document Digital Signature
- XHTML 1.0
- XSLT 1.0



IHE Content Profiles Key Technical Properties

- Human Readable
- Machine processable
- Digital Signature Enabled
- Can be shared multiple ways
 - RHIO or HIE (XDS)
 - CD or USB Media (XDM)
 - Point to Point (XDR)

PCC Profiles

ontent

Basic Patient Privacy Consent



Medical Summaries

Functional Status Assessments

Preprocedure History and Physical

Emergency Department Encounter Record

Antepartum Care **Summary**

ED Referral **Exchanging** PHR Content



Lab Report

Query for Existing Data

2005-06

2006-07

2007-08



- Among 30 Consensus Standards Recommended by HITSP and accepted by HHS Secretary Leavitt.



Medical Summaries Abstract

- Define a medical summary format for clinical documents containing:
 - Patient Demographics
 - Problems
 - Allergies
 - Medications
 - Pointers to other material

C2 2:00-3:00



Medical Summaries Value Proposition

- Leverages Clinical Documents and Ontology
 - A common mechanism for transfer of encoded clinical data embedded in documents (CDA)
- Enhances Clinical Documents criteria for key use cases:
 - Inpatient to Primary Care Provider
 - Primary Care Provider to Specialist
- Migration to ASTM/HL7 CCD in 2007

C2 2:00-3:00



ED Referral Abstract

- Define a referral format for "heads-up" call
 - Supports Medical Summary Content
 - Special Needs of Emergency Department
 - Expected Time of Arrival
 - Mode of Arrival
 - Disposition/Orders

C2 3:45-4:15



Exchange of PHR Content Abstract

- Manage the interchange of documents between a PHR System and an EHR System to enable interoperability.
- Supports a variety of transmission mechanisms.
- Addresses PHR Update Issues

C2 2:00-3:00



Exchange of PHR Content Value Proposition

- Supports interchange of PHR Information
 - Demographics
 - Insurance Information
 - Medications, Problems, Allergies
 - Health History
 - Other Information
- Supports information described in
 - AHIMA PHR Common Data Elements
 - HL7 PHR Functional Model
- ASTM/HL7 CCD Compatible in 2007!

C2 2:00-3:00



Antepartum Summary Scope

 Capability to electronically communicate pertinent patient history, treatment, lab and imaging information collected over the course of a pregnancy to care providers and institutions (ambulatory, hospital, specialist, etc.) via perinatal, ambulatory and inpatient EHR systems

C2 3:15-3:45



Antepartum Summary Value Proposition

- Over 4 million live births per year in US
- Obstetric patients must have a complete summary of antepartum care available for all care providers and at admission for labor and delivery.
- Incomplete information can be a danger to the mother and child and result in injury, inadequate treatment or undesirable outcome.

C2 3:15-3:45



Functional Status Assessment Scope

- The Institute of Medicine has determined that a high risk for errors occurs during the transfer of care.
- The Functional Status Assessment Profile (FSA) supports the handoff of assessment information between practitioners during transfers of care, cross-enterprise or intra-enterprise.
- Physician documentation provides medical assessment, diagnosis and treatment information.
- Nursing documentation provides assessment and treatment of human response (psychosocial, physiologic, emotional and spiritual) of patient/family to changing conditions.

C2 4:15-5:00



Functional Status Assessment Value Proposition

- Early intervention by practitioners viewing EHR minimizes complications and reduces length of stay.
- Ensure pertinent data is available at the time of transfer without concern about lost data.
- Complete information about patient's clinical or home status promotes safety, adequate after-care, improved outcomes and patient satisfaction.
- Admitting nurse can plan for appropriate staffing resources based on patient acuity. (Resource maximization)
- Continuity of interdisciplinary plan of care promotes early discharge and increased patient satisfaction.
- * Healthcare Outcomes

C2 4:15-5:00



ED Encounter Record Scope

- Emergency Department Information Systems (EDIS)
- Inpatient EHR Systems
- Ambulatory EHR Systems

C2 3:45-4:15



ED Encounter Record Value Proposition

- The Centers for Disease Control and Prevention (CDC) estimates that there were over 110 million emergency department visits in 2004
- ED visits account for as much as 40% of hospital admissions
- The ED Chart is the most common medical summary in use today
- This profile supports sharing of the clinical information in the ED chart with inpatient care providers and the patient's primary care physician.

C2 3:45-4:15



Basic Patient Privacy Consents Abstract

- Provides mechanisms to:
 - Record the patient's privacy consent(s),
 - Identify the consent policies under which a document was authorized to be published.
 - Enforce the privacy consent appropriate to the use.

D2 10:45-12:00



Sharing of Lab Reports Scope

- The clinical laboratory report is:
 - A report of a set of final results (the fulfillment process being completed) to be shared as "historical information".
 - Human-readable, shared between care providers of various specialties and patients (e.g. through a PHR)
 - May contain machine readable coded entries (decision support, bio-surveillance)
- All clinical laboratory specialties in scope, except:
 - Blood banks (blood products out of scope, but blood tests in scope)
 - Pathology (has its dedicated domain in IHE)

Sharing of Lab Reports Use Cases

- Use case 1: Hospital lab report → RHIO → EHRs

 At discharge time, a hospital physician selects the most significant laboratory reports produced during patient stay, and issues these reports individually to a health information exchange (e.g. XDS Affinity Domain) shared by a number of healthcare enterprises and primary care providers.
- Use case 2: Ambulatory lab report → RHIO → PHR
 A private laboratory having signed a final report for a patient, sends this report in an electronic format to the patient record in the national EHR.
- Use case 3: Lab report → PHR
 A physician reviews the results received from a reference laboratory for his patient. The doctor, as requested by the patient, sends this laboratory report in the patient's personal health record in an electronic format.
- Use case 4: Lab report automatically shared → RHIO

 A community or hospital laboratory, systematically (with some degree of automatism) shares its final reports with a regional healthcare network.
- Use case 5: Hospital's EHR Lab report → RHIO
 At discharge time of an inpatient, a hospital physician selects the most significant lab results, produced by one or more laboratories of the healthcare enterprise during patient stay, and builds a cumulative report sent to an health info exchange shared by a number of healthcare enterprises and primary care providers.

Scanned Documents Abstract

- A variety of electronic image formats are used to store and exchange textual clinical documents
- These formats are not designed for healthcare documentation
- There is no uniform mechanism to store healthcare metadata associated with the documents, including:
 - patient identifiers,
 - demographics,
 - Encounter/visit identifiers
 - order numbers
- It is necessary to provide a mechanism that allows such source metadata to be stored with the document.



Scanned Documents Scope

- EHR Systems
- HIS Systems
- Transcription Systems
- Document Imaging Systems

Scanned Documents Value Proposition

- Over 50% of the medical record resides in dictated or transcribed notes or handwritten documentation
- This information needs to be exchanged for:
 - Care
 - Payment
 - Operations



More information....

- IHE Wiki: http://wiki.ihe.net
- IHE Web site: http://www.ihe.net

 http://www.himss.org/IHE
 http://www.rsna.org/IHE
 http://www.acc.org/quality/ihe.htm



- Technical Frameworks
- Technical Framework Supplements Trial Implementation
- Non-Technical Brochures :
 - Calls for Participation
 - IHE Fact Sheet and FAQ
 - IHE Integration Profiles: Guidelines for Buyers
 - IHE Connect-a-thon Results
 - Vendor Products Integration Statements



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