

HIMSS Electronic Health Record Vendor Association

EHR Clinical Research Integration Project

Spring AMIA

Informatics Across the Spectrum

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Charlene Underwood, MBA, Siemens
Director, Government and Industry Affairs
Past Chair, HIMSS EHRVA

Discussion Points

- HIMSS EHRVA Background
- Collaboration with PhRMA
 - PhMRA Education - 2006
 - HIMSS EHRVA / PhRMA / Life Sciences / Clinical Research Meeting – February 25, 2007
 - HIMSS EHRVA Pharmaceutical Industry Workgroup
- Future Opportunities

EHRVA Mission

Promote the rapid adoption of electronic health records that advance cost effective healthcare

Provide a unified voice and a forum for cooperation for the EHR vendor community

Strategic Plan focuses on these areas

- Certification
- Interoperability
- Advocacy / Public Policy
- Quality

EHRVA members



ALLSCRIPTS™
Inform. Connect. Transform.



Companion Technologies



GE Healthcare



EHRVA members



MEDITECH

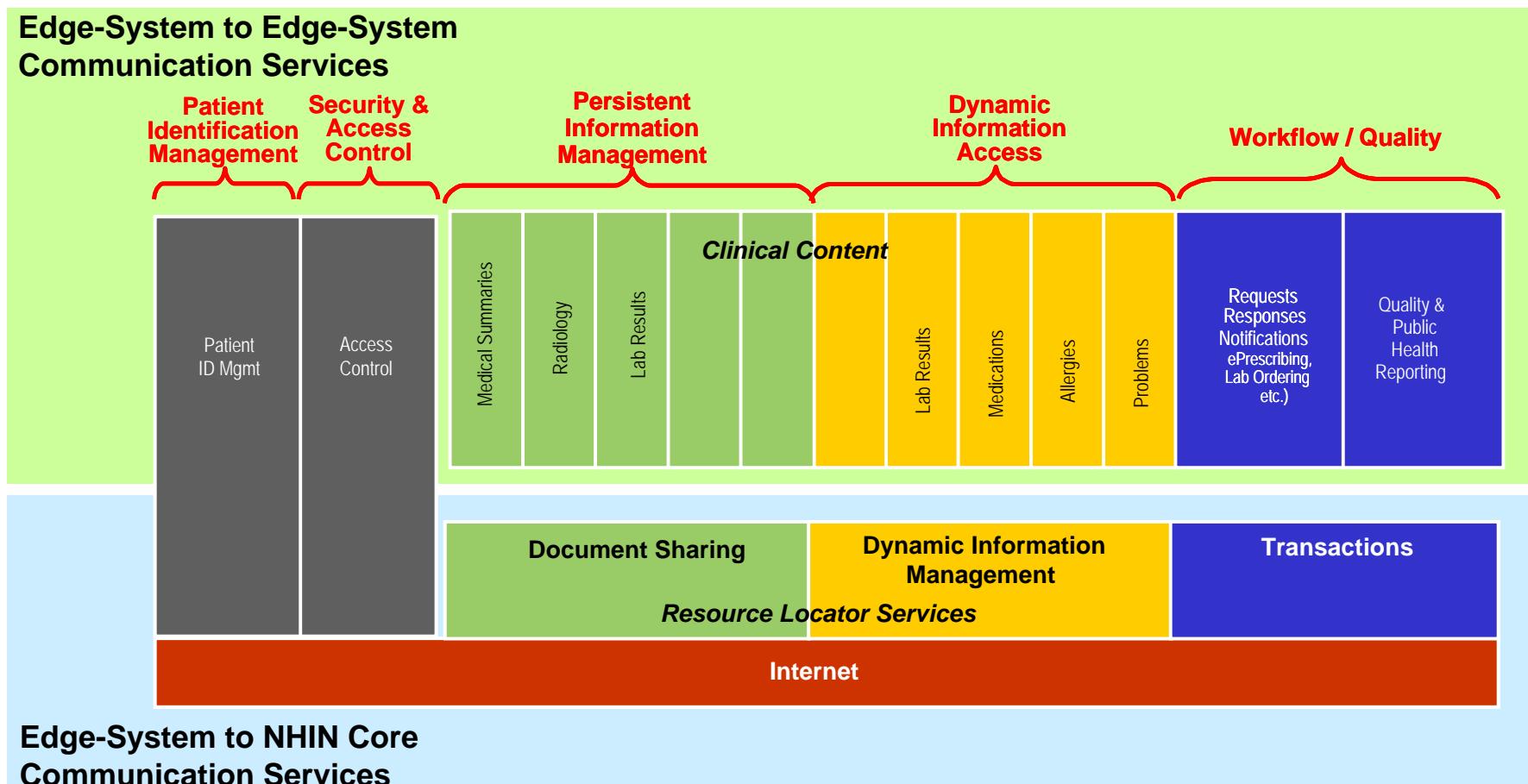


SIEMENS



EHRVA Interoperability Roadmap

- Five communication services building blocks
- Framework that supports incremental evolution
- Transparency between Edge Systems & Edge-Core interface



EHRVA Pharmaceutical Industry Workgroup Members

Shelley Fichtner, PhRMA

Daijin Kim, Pfizer

Kraig Kinchen, Eli Lilly

Tanuj Gupta, AstraZeneca

Hima Kher, Bristol-Myers Squibb

Mitra Rocca, Novartis

Kim Slocum, KDS Consulting (Facilitator)

Justin Barnes, Noteworthy

Charlie Jarvis, NextGen

Don Schoen, Medinotes

Charlene Underwood, Siemens Medical Solutions

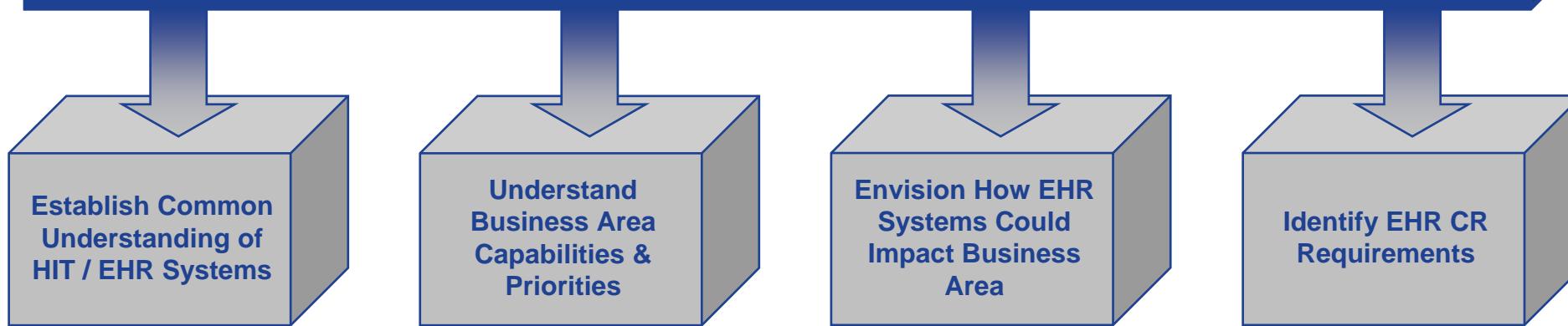
Hugh Zettel, GE Healthcare

Education Topics – Potential “use cases”

- Electronic Health Records and Outcomes Research
- Matching Investigators and/or Patients to Clinical Trials
- EHR/EDC (Electronic Data Capture)
- Drug Safety and Surveillance
- Coordination of Care for Chronic Disease

Using EHRs to Support Research

EHR-CR Requirements Development



- NHIN Slipstream Project – AstraZeneca, Bristol-Myers Squibb, Pfizer, Wyeth
- Electronic Health Records and Clinical Research – Pfizer
- Implications of Electronic Health Records for the Pharmaceutical Industry – Astra Zeneca

Use Cases

Clinical Trial Data Collection

Clinical Trial Recruitment

Understand Disease Progression

Understanding Disease Mechanism

Epidemiology (Study disease prevalence in populations)

Document Management for Clinical Trials

Drug Safety Surveillance

Outcomes Research

Support Regulatory Approval

Audit Medication Workflow

Trial Subject Compliance

Virtual Phase IV trials

Study Drug Use Post-Launch

Remote Site Monitoring

Clinical Research Requirements

Requirements are grouped by category and can be filtered by use case or system type.

Req #	Requirements Description	Clinical Research Use Cases																	System Type		
		Understanding Disease Mechanism	Clinical Trial Data Collection	Clinical Trial Recruitment	Document Management for Clinical Trials	Understanding Disease Progression	Drug Safety Surveillance	Epidemiology	Outcomes Research	Support Regulatory Approval	Remote Site Monitoring	Study Drug Use Post-Launch	Audit Medication Workflow	Trial Subject Compliance	Virtual Phase IV Trials	EMR	EHR	PHR	Other System(s)		
1	1. Data Capture & Interfaces																				
2	1.1 Ability to interface clinical modules within a provider organization (eg. registration, lab, CPOE, radiology, etc.).	X	X	X		X	X	X	X	X	X	X	X	X	X	X					
3	1.2 Ability to connect data from EMR systems from many different provider organizations to create a patient's complete longitudinal record.	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X			
4	1.3 Ability to interface clinical modules with insurance company & pharmacy systems in order to capture insurance eligibility and medication/treatment costs.								X				X				X	X		X	
5	1.4 Ability to connect EMR/EHR systems with regulatory systems, research systems, clinical trial sponsor systems, and/or other 3rd party systems.	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X			
6	1.5 Ability to connect eMAR, CPOE, pharmacy systems with the EMR system in order to capture a patient's complete medication information/history.	X	X	X		X	X		X	X		X	X	X	X	X	X	X	X		
7	1.6 Ability to connect the EMR/EHR with other systems used for physician credentialing in order to register physicians as investigators.		X	X						X							X	X			
8	1.7 Capture patient clinical data that may have been entered via transcription.	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9	2. Identity & Confidentiality																				
10	3. Data Content																				
11	4. Data Exchange																				
12	5. Functionality																				
13	6. Data Access/Authentication/Audit & Logging																				
14	7. Data Quality/Data Integrity (Standards)																				
15	8. Data storage																				
16	9. Other Systems Capabilities																				
17	10. Non-System requirements																				

Use cases from IHE/CDISC Demo (HIMSS 2007)

Clinical Trial: Lab and Image Data

Sponsored by
Novartis

Powered by
Novartis
Siemens
SAS

Clinical Trial: Visit Workflow

Sponsored by Eli Lilly and Company

Powered by
Cerner Corporation
Phase Forward
IBM

Drug Safety

Sponsored by
Pfizer

Powered by
Sentrx/Relsys
Allscripts
Accenture
SAS

Disease Registry

Sponsored by
Genzyme

Powered by
•Outcome
•Allscripts
•Digital Infuzion
•SAS
•Assero/IPL

Collaboration Opportunities

Help private sector develop a roadmap to shared value

- Mutual understanding of business processes, use case and priorities
- Leverage Use Case Development

Continue to invest in EHR/EDC initiatives

- Standards, IHE & CDISC
- Controlled Medical Vocabulary

Interoperable EHRs to be certified; work to make sure that what is certified meets your needs

- Clinical Labs
- E-prescribing
- Quality (i.e., Adverse Events)
- Population Health