Development of Federated EHR Through Metadata Tagged Data Elements

Implementation and Potential Challenges of a Distributed Electronic Healthcare Record System

Peter Ragone
Overview

• Federated EHR
  – Database
  – Metadata
Healthcare Ontologies

- Implementation
- Frameworks
  - Expansion
  - Scalability
Distributed EHR

- At Rest: Distributed EHR
  - Separate systems in separate locations
  - Data is tagged through standardized formats

- In Use: Consolidated EHR
  - New OSI implementation to get data
  - Find
  - Authorize
  - Deliver
OSI Model

- **Layer 4**
  - Likely use existing TCP
- **Layer 5**
  - Authentication
- **Layer 6**
  - Framework for Application
- **Layer 7**
  - Web browser?
Conclusion

- Maintain model of Distributed EHR
- Maintain process of Ontologies and frameworks
- Develop and implement data acquisition
- Define authentication methods
Other News

• Michael Dailey, MD
  – Attending ER physician at Albany Medical Center
  – Research focus on ER, prehospital and community medicine

• George Hickman
  – CIO and EVP for Albany Medical Center