IN SUPPORT OF STANDARDIZATION:
IMMUNIZATION INFORMATION SYSTEMS (IIS),
THE IIS HL7 IMPLEMENTATION GUIDE, AND
MEANINGFUL USE – AIRA PERSPECTIVE

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In Support of Standardization

- AIRA has been working on standardization of immunization messages using HL7 since the 90s.
- Continuing to enhance the IG to meet future needs with public health reporting (e.g. future stages of MU).
In Support of Standardization

- “Standard message formats in HL7 define a query for a patient’s immunization history, a response to that query when a unique patient is found, and an unsolicited update to immunization history.”
- “The existence of such an international standard allows multiple software vendors to create uniform interfaces to their software, allowing disparate systems to talk to one another.”

- Development of Community- and State-Based Immunization Registries, January 12, 1999
Impacts to our Interfaces

Local Implementation Guides

CDC/AIRA HL7 Implementation Guide

Local Statutory/Policy Requirements

Interpretation/Implementation Differences

Local Implementation Guides
AIRA’s Support of Standardization

- Standards and Interoperability Steering Comm. (SISC)
- Modeling Immunization Registry Operational Workgroup (MIROW)
- Education Steering Comm. (ESC)
AIRA’s Support of Standardization

- Standards and Interoperability Steering Comm.
  - HL7 Implementation Guide
    - Soon to be released version 1.5
  - Represents AIRA with partner organizations
    - Joint Public Health Informatics Task Force (JPHIT), NIST, HL7, ONC, ACIP, NVAC, etc.
  - Supports Web Services workgroup
  - Comments on Meaningful Use Proposed Rules and Implementation
AIRA’s Support of Standardization

**MIROW**

- Published latest “best practice” chapter
  - Data Quality Assurance in IIS: Selected Aspects
- Evaluating MIROW process and implementation at the IIS level
- Considering next MIROW topics
  - Patient status codes
  - Bidirectional exchange best practices
- Introducing “micro-guide” on lot level capture
AIRA’s Support of Standardization

- Assessment Steering Committee
  - IIS Self-Assessment Tool
    - Data quality, functional capacity, and data usage
  - Developing methodology and process for IIS data quality evaluation
    - Third party approach
  - Developing methodology for conducting population-based IIS immunization coverage assessments
AIRA’s Support of Standardization

- Education Steering Committee
  - Getting the word out about standards
    - Webinars
    - SnapShots
    - Face-to-face meeting
  - Supports Provider Training
AIRA’s Support of Standardization

- Broader AIRA Efforts
  - Publishing results and findings
    - White paper: Recording Dose Level Eligibility in IIS
    - Upcoming white paper: Survey of Immunization Reporting to IIS by Major U.S. Pharmacies
  - Representing IIS Community
    - PHII-led meeting exploring consensus on bidirectional standards
  - Developing technical specifications
    - Logic guidance: IIS-based AFIX coverage assessments
AIRA’s Support of Standardization

Broader AIRA Efforts

- Developed 2013-2016 AIRA Strategic Plan
  - Goal 1: Maintain Role as Leading Authority
    - Objective a: Develop and promote standards and best practices
      - Strategy 1: Identify areas that need standardization
      - Strategy 2: Develop standards and best practices
      - Strategy 3: Develop toolkits for implementation
AIRA’s Support of Standardization

- Broader AIRA Efforts
  - Partnered with PHII to facilitate Joint Development Meetings, exploring opportunities for cross-program and cross-platform development
AIRA’s Support of Sharing

- Joint Development conversations are early, but promising
  - Many collaborative projects already underway
  - Program staff and implementers are engaged
  - Umbrella initiatives needs to bring Joint Development concepts (governance, funding, communications/messaging, etc) all together
AIRA’s Support of Systems/Structure

- Potential areas for certification-like process
  - HL7 update messaging (VXU, ADT)
  - Query messaging (VXQ, QBP, RSP)
  - Forecasting

- Certification could be the measuring stick that helps us verify and communicate about the adoption of standards
December 2012 Status Check process was born

- Sponsored by the CDC as short term project
- Scope was to measure IIS capacity to accept the 2014 NIST certified messages that EHR systems will be sending in 2014
- Participation was voluntary by the IIS community as long as they had a functional HL7 interface
Status Check Process

- Seven NIST test messages were submitted to each IIS.
- The results were reviewed to determine if each message was accepted.
- If a message was rejected, changes were made until the message was accepted.
- Changes were documented and analyzed.
- Changes made were labeled as “local requirement or local constraints.”
Status Check Results

- All the IISs that participated supported the HL7 2.3.1 or HL7 2.5.1 standard.
- The IISs that did not participate are known to already have or will have soon the HL7 vs 2.5.1.
- IIS have shown great support for the HL7 community standard by universally adopting it.
- There are minor variations that must be considered by any EHR system integrating with an IIS.
Questions, Comments, Feedback?

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