



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

Presented by: Frank Caniglia, RHIA  
AIRA Board President  
Chief, Pennsylvania Statewide IIS

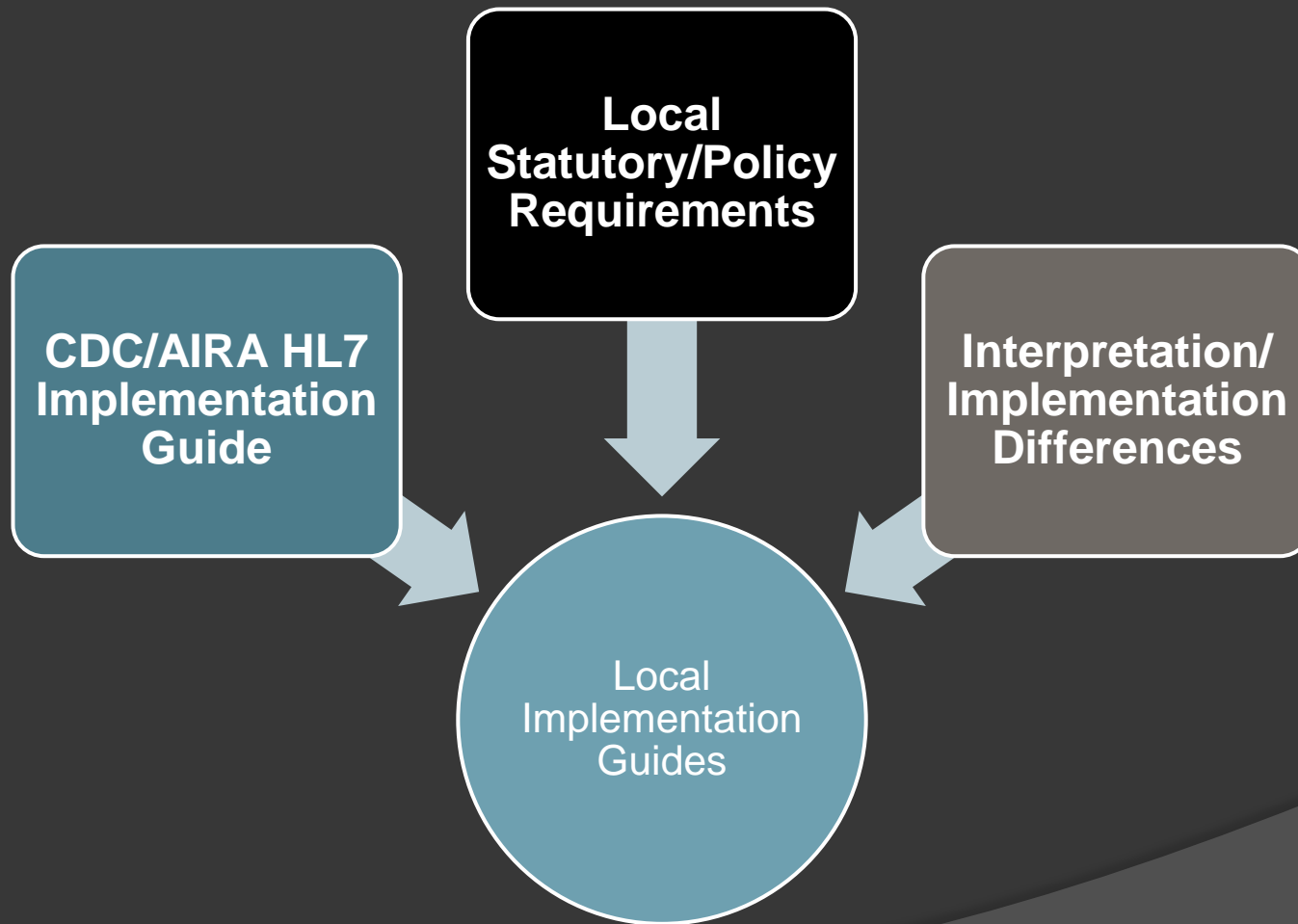
# In Support of Standardization

- 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



# 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

# IIS Interface Compliance Readiness

- ◉ 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

# IIS Resources

- ⦿ Popular IIS topics website hosted by the CDC
  - <http://www.cdc.gov/vaccines/programs/iis/index.html>
- ⦿ AIRA
  - <http://www.immregistries.org/>

# Questions, Comments, Feedback?

Frank Caniglia, AIRA Board President

[ccaniglia@pa.gov](mailto:ccaniglia@pa.gov)

717-783-2548

Alison Chi, AIRA Program Manager

[achi@immregistries.org](mailto:achi@immregistries.org)

202-527-7000 x3