Inside the Interoperability Standards Advisory (ISA)

Public Health – EHR Vendors Collaboration Initiative Webinar

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March 21, 2017
Public Health – EHR Vendors Collaboration Initiative

In Focus

Special Session #7: Zika Virus Disease Update

Coming Up! Special Session #7: Zika Virus Disease Update for Electronic Health Record (EHR) Vendors, Health Information Technology Developers, Public Health, and Clinical Healthcare Partners on Nov 2, 2016 1:00 PM - 2:00 PM EDT

Please pre-register for the webinar by clicking the link below:
https://attendee.gotowebinar.com/register/3504905897385264131

Abstract

This webinar will be focused on the recommendations around Ask at Order Entry (AOE) for pregnancy status in Zika virus (ZIKV) laboratory test orders with the possibility of a broader discussion on the capture of pregnancy status in electronic health records, per the clinical workflow and an update on the algorithm for ZIKV risk assessment in pregnant women, based on the latest Centers for Disease Control and Prevention (CDC) guidelines.

Terms explained:

* Ask at Order Entry (AOE): Some tests, such as microbiology cultures and those that determine heavy metal ion concentration, require additional
Question and Answer Session

How to submit or ask questions for the panel members?

Submit or Ask Questions

- Submit your text question and comments using the Question Panel
- Please raise your hand to be unmuted for verbal questions.
Inside the Interoperability Standards Advisory (ISA)

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CDC EHR Vendor Collaboration Webinar
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What is the ISA?

• A single, public list of the standards and implementation specifications that can best be used to address specific interoperability needs.

• Reflects the results of ongoing dialogue, debate, and consensus among industry stakeholders.

• Document known limitations, preconditions, and dependencies as well as other helpful information.
ISA Content

• Introduction
• Section I: Vocabulary/Code Set/Terminology
• Section II: Content and Structure
• Section III: Services
• Section IV: Models and Profiles
• Under each section, there are Subsections with various Interoperability Needs
• Specific standards and implantation specifications support each Interoperability Need
Characteristics and other helpful information for each standard and implementation specification

- Standards Process Maturity
- Implementation Maturity
- Adoption Level
- Federally Required
- Cost
- Test Tools
- Limitations, Dependencies, Preconditions and Other Qualifying Information
- Applicable Value Set(s) and Starter Set(s) and Security Patterns

Appendix “Sources for Privacy and Security Standards”
## Electronic Transmission of Reportable Lab Results to Public Health Agencies

### Type
- **HL7 2.5.1**

### Standards Process Maturity
- **Final Production**

### Implementation Maturity
- **Final Production**

### Adoption Level
- **Yes**

### Federally required
- **Yes**

### Cost
- **Free**

### Test Tool Availability
- **Yes**

### Limitations, Dependencies, and Preconditions for Consideration
- Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures. Obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jurisdictional variation or requirements.
- Note the Public Health Profile as specified in the HL7 Version 2.5.1 Implementation Guide. The Framework Laboratory Results Interface Implementation Guide, Release 1, DTSU Release 2, US Realm, harmonizes with the Lab US Realm suite of Implementation Guides and improves on the ELR emerging implementation specification. Both are scheduled for revision in the HL7 January 2017.
- See HL7v2 projects in the Interoperability Proving Ground.

### Applicable Security Patterns for Consideration
- **Secure Communication** – create a secure channel for client-to-server and server-to-server communication.
- **Secure Message Router** – securely route and enforce policy on inbound and outbound messages without interruption of delivery.
- **Authentication Enforcer** – centralizes authentication processes.
- **Authorization Enforcer** – specifies access control policies.
- **Credential Tokenizer** – encapsulates credentials as a security token for reuse (e.g., SAML, Kerberos).
- **Assertion Builder** – defines processing logic for identity, authorization, and attributes statements.
- **User Role** – defines the role asserted by the individual initiating the transaction.
- **Purpose of Use** – identifies the purpose for the transaction.

*Log in or register to post comments*
How should the ISA be used?

- Stakeholders who administer government and non-governmental procurements, testing, certification or grant programs to look first to the ISA to meet their interoperability needs.

- The ISA and their associated informative characteristics are also available to help more fully inform policy.
What has changed?
Reasons for the Change

• Accommodating Mid-year (July 2016) Task Force recommendations:
  » The ISA should evolve to a more dynamic experience for users.

• Public Feedback
  » Use an interactive online platform that encourages more participation
  » Provide more transparency to the process
  » Enable more timely updates
Old Process

December of Preceding Year

- The new Interoperability Standards Advisory for the next calendar year is published (e.g., December 2015 for the 2016 Advisory) and public comment period is opened.

April/May

- ONC staff present a summary of received comments to the HIT Standards Committee (or designated Task Force) in order to prepare them to make recommendations on updates for the following year’s Interoperability Standards Advisory.

August

- The HIT Standards Committee submits recommendations to the National Coordinator concerning updates to the following year’s Interoperability Standards Advisory and a second round 60-day public comment is opened on the HIT Standards Committee’s recommendations.

October-December

- ONC reviews the HIT Standards Committee recommendations as well as public comments on those recommendations and prepares the next year’s Interoperability Standards Advisory for publication.
• The web-based version of the ISA is expected to be updated frequently throughout the year.

• Specific SMEs have ownership of subsections of the ISA that are empowered to analyze public comments and make changes as necessary.

• ONC will annually publish a static “Reference Edition” of the ISA that can be referenced in contracts, agreements, or as otherwise needed with certainty that the information will not change.
New Functionality

• Public can comment on each page.
• Comments are quickly posted for all to see.
• Additional comments can be made about/on top of other comments in a threaded format.
• Ability to word search across the ISA.
• Ability to print the ISA completely or by individual pages.
Content Changes

- The most substantial changes between the 2016 and the 2017 includes:
  - The discontinued use of the label “best available” as an overall concept
  - Changing the scope of the ISA to include more specific references to research and public health.
  - Including Personal Health Device, Nursing, Research, Nutritional Health, and Social Determinant interoperability needs within the ISA.
  - Adding a new section that begins to include Functional and Data Models as well as Functional Profiles.
Future Changes to the ISA

• **Functionally**
  » Query, filter and sorting standards and implementation guide
  » Subscribe to alerts for when the ISA changes
  » Capture more information about experiences with the standards

• **Content**
  » Better address interoperability needs for Consumer/Patient Access
  » Future growth in the new “Models and Profiles” section
  » Anticipate a continuation of more granular reference to FHIR resources, profiles, and implementation guides
  » Continued expansion of interoperability needs
  » Improve upon how privacy and security is addressed
Public Health related Interoperability Needs within the ISA (examples)

- Reporting Antimicrobial Use and Resistance Information to Public Health Agencies
- Reporting Cancer Cases to Public Health Agencies
- Case Reporting to Public Health Agencies
- Electronic Transmission of Reportable Lab Results to Public Health Agencies
- Sending Health Care Survey Information to Public Health Agencies
- Reporting Administered Immunizations to Immunization Registry
- Reporting Syndromic Surveillance to Public Health (Emergency Department, Inpatient, and Urgent Care Settings)
- Transport for Immunization Submission, Reporting
We need your help!

- Please review the ISA: https://www.healthit.gov/standards-advisory
- Are the referenced standards and implementation specifications correct?
- Are there Interoperability Needs (use cases) that should be included?
- What are the standards and implementation specifications that support the missing Interoperability Needs?
- How can we make the ISA more helpful to you to do your job?
- How can we make the ISA functionally better?
Thank you for your participation

Find the ISA at:
https://www.healthit.gov/standards-advisory

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