

The Office of the National Coordinator for
Health Information Technology



Inside the Interoperability Standards Advisory (ISA)

Public Health – EHR Vendors Collaboration Initiative
Webinar

Presented by: Chris Muir
Director of HIT Infrastructure and Innovation Division
Office of Standards and Technology

March 21, 2017

Putting the **I** in Health **IT**
www.HealthIT.gov

<https://www.cdc.gov/ehrmeaningfuluse/public-health-ehr-vendors-collaboration-initiative.html>



Meaningful Use

Meaningful Use

Introduction

Calendar

Connect with Others

CDC Meaningful Use ListServ

Meaningful Use Community

Public Health – EHR Vendors Collaboration Initiative

Joint Public Health Forum & CDC Nationwide

Meaningful Use (MU) Public Health (PH) Reporting Requirements Task Force

Community of Practice (CoP)

ELR Task Force

Jurisdiction Meaningful Use Websites

S & I Framework

Reportable Conditions Knowledge Management System

External Links



[CDC](#) > [Meaningful Use](#) > [Connect with Others](#) > [Meaningful Use Community](#)

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-

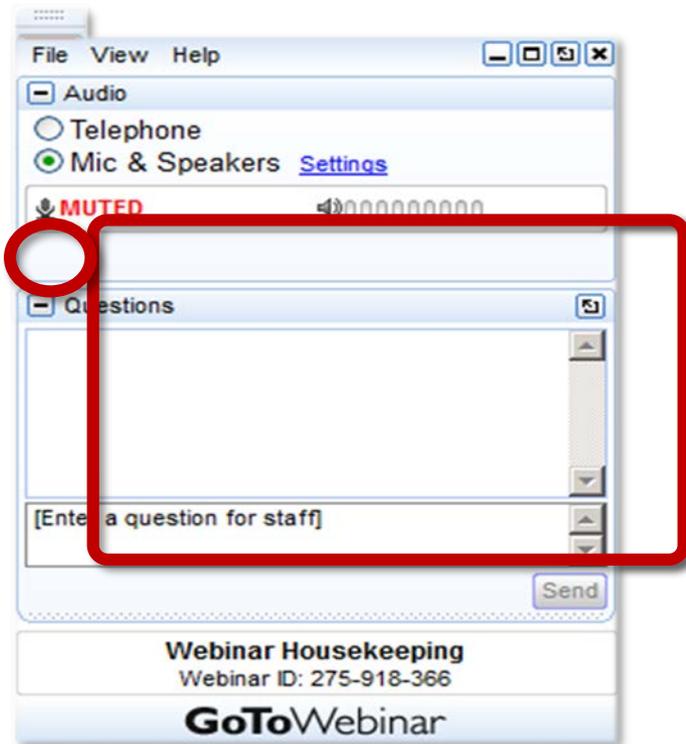
* Ask at Order Entry (AOE)-Some tests, such as microbiology cultures and those that determine heavy metal ion concentration, require additional

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)

Chris Muir
Director of HIT Infrastructure and Innovation Division
Office of Standards and Technology

CDC EHR Vendor Collaboration Webinar
March 21, 2017



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.

- 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”

Health IT.GOV: Electronic Transmission of Reportable Lab Results

Electronic Transmission of Reportable Lab Results to Public Health Agencies | Interoperability - Internet Explorer

https://www.healthit.gov/isa/Electronic_Transmission_of_Reportable_Lab_Results_to_Public_Health_Agencies

Electronic Transmission of R... x

File Edit View Favorites Tools Help

ONC Intranet Home ZoneTe... The shift from manager to... Jet.com Prices Drop As Yo... Welcome to HHS! Nictz Overzicht van ICT-st... MAX.gov Login Suggested Sites Web Slice Gallery Page Safety Tools

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HealthIT.gov Interoperability Standards Advisory (ISA)

Official Website of The Office of the National Coordinator for Health Information Technology (ONC)

Home | ISA 2017 | ISA 2016 | ISA 2015

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Interoperability Standards Advisory

2017 ISA Reference Edition

View ISA as a Single Page

Recent ISA Updates

- Introduction to the ISA
- Section I: Vocabulary/Code Set/Terminology Standards and Implementation Specifications
- Section II: Content/Structure Standards and Implementation Specifications**
 - II-A: Admission, Discharge, and Transfer
 - Sending a Notification of a Patient's Admission, Discharge and/or Transfer Status to Other Providers
 - Sending a Notification of a Patient's Admission, Discharge and/or Transfer Status to the Servicing Pharmacy
 - II-B: Care Plan
 - Documenting and Sharing Care Plans for a Single Clinical Context
 - Domain or Disease-Specific Care Plan Standards
 - Sharing Patient Care Plans for Multiple Clinical Contexts
 - II-C: Clinical Decision Support
 - Sharable Clinical Decision Support
 - Provide Access to Appropriate Use Criteria
 - Communicate Appropriate Use Criteria with the Order and Charge to the Filling Provider and Billing System for Inclusion

Electronic Transmission of Reportable Lab Results to Public Health Agencies

View Revisions

| Type | Standard Implementation/Specification | Standards Process Maturity | Implementation Maturity | Adoption Level | Federally required | Cost | Test Tool Availability |
|---------------------------------------|--|----------------------------|-------------------------|--------------------|--------------------|------|------------------------|
| Standard | HL7 2.5.1 | Final | Production | ●●○○○ | Yes | Free | No |
| Implementation Specification | HL7 Version 2.5.1: Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification | Final | Production | ●●●●○ | Yes | Free | Yes |
| Emerging Implementation Specification | HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm), Draft Standard for Trial Use, Release 1.1 | Balloted Draft | Pilot | Feedback Requested | No | Free | No |

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: S&I Framework Laboratory Results Interface Implementation Guide, Release 1 DSTU Release 2 - US Realm* is harmonized 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 [HL7 V2 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** – centralized authentication processes.
- Authorization Enforcer** – specifies access control policies.
- Credential Tokenizer** – encapsulate credentials as a security token for reuse (e.g., – SAML, Kerberos).
- Assertion Builder** – define processing logic for identity, authorization and attribute statements.
- User Role** – identifies 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

100%

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?

The screenshot shows a web browser window displaying the Interoperability Standards Advisory (ISA) website. The browser's address bar shows the URL <https://www.healthit.gov/isa/>. The website header includes the HealthIT.gov logo and navigation links for Home, ISA 2017, ISA 2016, and ISA 2015. A search bar is located on the left side of the page. The main content area is titled "Welcome to Interoperability Standards Advisory (ISA)" and features a list of sections under the heading "Section I". The sections listed are:

- I-A: Allergies and Intolerances
- I-B: Encounter Diagnosis
- I-C: Family Health History
- I-D: Functional Status/Disability
- I-E: Health Care Providers
- I-F: Imaging (Diagnostics, Interventions and Procedures)
- I-G: Immunizations
- I-H: Industry and Occupation
- I-I: Lab Tests
- I-J: Medications
- I-K: Units of Measure
- I-L: Nursing
- I-M: Patient Clinical "Problems" (i.e., conditions)
- I-N: Preferred Language
- I-O: Procedures
- I-P: Race and Ethnicity
- I-Q: Research
- I-R: Sex at Birth, Sexual Orientation and Gender Identity
- I-S: Social Determinants
- I-T: Tobacco Use (Smoking Status)
- I-U: Unique Device Identification

The browser's taskbar at the bottom shows several open files: fhir-logo-www.png, HEART-venn.png, cafe2.png, and cafe.jpg. The system tray in the bottom right corner displays the time as 12:38 PM on 1/27/2017.

- 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.

- 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.

- 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.

- **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>

Chris Muir
Christopher.Muir@hhs.gov



@ONC_HealthIT



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