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/3504905897/3852644131

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
Submit or Ask Questions

• Submit your text question and comments using the Question Panel

• Please raise your hand to be unmuted for verbal questions.
ONC/FHA Healthcare Directory (HcDir) Project Overview
Brief background

• Continuation of the work from a workshop organized by FHA and ONC and held at MITRE Headquarters in McClain, VA on April 5th and 6th of 2016.
Some suggested Public Health Use Cases

» Discover individual or organizational electronic endpoint
» Discover individual or organizational characteristics for accessibility, services
» Discover individual or organizational characteristics for plan enrollment
» Associating patients with providers (e.g. to support provider alerts)
» Support programs that enroll providers – e.g. Emergency System for Advance Registration of Volunteer Health Professionals (ESAR-VHP), Medical Reserve Corps (MRC), Disaster Medical Assistance Team (DMAT), etc.
» This is not an inclusive list and there may be other local use cases dependent on the public health agency
Two-day workshop organized by FHA and ONC was held at the MITRE Headquarters in McClain, VA on April 5/6.

First day focused on presentations and questions, second day was focused on use cases

One Hundred and ten (110) in-person attendees (including 27 federal staff) and an additional ninety-four (94) virtual

Attendees included the following:

- Federal: ONC, HHS, CMS, DoD/DHA, VA, SSA, CDC
- State (HIE/Medicaid/Govt): Michigan, Oregon, Rhode Island, Colorado, California, Illinois, Ohio
- Payers and Payer Organizations: AHIP, CA BCBS, CIGNA, Humana, United, Wellmark
- HIT Vendors: Cerner, Epic, NextGen
- Not for Profit Interoperability: CAQH, NATE, Direct Trust, Sequoia Project
- Professional: AMA, Kaiser, Johns Hopkins
- National Networks: Surescripts
PD Workshop Summary

• Strong interest in the federal government providing, at a minimum, a validated core data set for PD
  • expand the scope of NPPES or
  • create a central resource for all local directories to use / reference

• Many use case – all important for interoperability and care delivery
  • Need to prioritize and define data / validation / exchange requirements

• Focus is now on use of FHIR for PD interoperability (not on IHE HPD)

• Need for coordination of PD effort between Federal agencies (including ONC), state initiatives and commercial efforts to minimize/avoid duplication of effort
Healthcare Directory Project Overview

- **Goal:** develop a national resource with a core set of validated data that can be used for local implementations of healthcare directories

- **Approach:**
  - ONC/FHA Task Force
  - Monthly TLC meeting (on the second Friday of each month)
  - Tiger Teams (Use Cases, Data Elements, Architecture, Interoperability)
  - A Basecamp site for collaboration and sharing
Use Cases

- **Basic Information Exchange**
  - A1. Enable electronic exchange (e.g. discovery of electronic end points such as IHE/EHR endpoints, FHIR server URLs, Direct addresses)
  - A2. Find an individual and/or organization (even if no electronic end point is available)

- **Patient/Payer focused**
  - B1. Find provider accessibility information (specialty, office hours, languages spoken, taking patients)
  - B2. Relationship between provider and insurance plan (insurance accepted) or plan and provider (network)
  - B3. Plan selection and enrollment
  - B4. Claims management (adjudication, prior authorization, payment)
• Care Delivery / Value Based Care
  » C1. Provider relationship with a patient (e.g. for alerts)
  » C2. Provider relationship with other providers in context of a patient (e.g. care team communications)

• Other
  » D1. Provider credentialing
  » D2. Quality or regulatory reporting (e.g. aggregate data, plan networks)
  » D3. Detection of fraud; inappropriate approval of services and/or payment for services
Interoperability Tiger Team

• Goal: Define a FHIR based national standard and implementation guide for the exchange of core and use case-specific data elements between a national resource of validated healthcare directory information and local environments

• The Tiger Team will work with HL7 to fulfill this charge.
  » Determine gap between requirements for the exchange defined above and current FHIR standard
  » Work with HL7 to extend the FHIR standard to accommodate the required elements and exchange process
  » Create and ballot an implementation guide for healthcare directory exchange based on FHIR resources, extensions, profiles and value sets
ONC-FHA Healthcare Directory Organizational Structure

ONC

Technical Learning Community (TLC)

Use Cases Tiger Team

Data Elements Tiger Team

Architecture Tiger Team

Interoperability / Exchange Standards Tiger Team

FHA

Healthcare Directory Task Force
ONC-FHA Healthcare Directory Tiger Team Dependencies

Use Cases
Tiger Team

Data Elements
Tiger Team

Interoperability
/ Exchange Standards
Tiger Team

Exchange Process and Requirements
Architecture
Tiger Team

Information
model, data element definitions and value sets

FHIR based
HcDir Exchange Implementation Guide

HL7

Information Requirements
<table>
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<tr>
<th>HcDir Task Force Timeline</th>
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<tr>
<td><strong>Aug</strong></td>
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<tr>
<td>HcDir Task Force</td>
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<tr>
<td>Use Cases Tiger Team</td>
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<td>Data Elements Tiger Team</td>
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<td>Architecture Tiger Team</td>
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<td>Interoperability/Exchange Standards Tiger Team</td>
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<td>HL7 Implementation Guide development process)</td>
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<td>HL7 IG ballot process</td>
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<td>Technical Learning Community (TLC)</td>
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Use of information in local workflow environments may be affected by local requirement and regulations.
Existing and “new” Resources

- **Organization**
- **Practitioner**
  - **Role**
- **Location**
- **Healthcare Service**
- **Endpoint**

**Network**

**Product**

**Accessibility**

**Credentialing/Accreditation**

**Validation**

**Restriction**

**Contract**

**Organization Role**

**Organization Affiliation**

- Extension to practitioner, practitioner role, location, healthcare service
- Extension to above or new resource pointing to the above
- New resource pointing to any element or group of elements
- New resource pointing to any element or group of elements with ability to support condition rules and agreements
Current Directory Resource Relationships
Example of Org-Org relationship

More complex relationship with multiple roles (membership and care delivery)

Expansion of role to other than professional delivering care at a location
Example of Insurance Plan and Provider Relationships (generic)
For more information please contact

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