HL7 Immunization User Group

Monthly Meeting

June 14, 2018

2:00 PM ET

Agenda

- Welcome
  - Poll: Which perspective do you primarily identify yourself with?
- Updates
  - AIRA National Meeting
  - SISC Update
- Discussion Topic
  - Query Interfaces

AIRA National Meeting

- Register!
- AART Clinics

The AIRA Technical Assistance Team is providing individual check-ins at the National Meeting. Reserve a 15- or 30-minute appointment now! You and your IIS colleagues will receive a brief tour of AART and recommendations, specific to your IIS, on ways to improve your HL7 interface or Transport Method. Contact Tracy Little for more information: tlittle@immregistries.org

SISC Update

Craig Newman

Query Interfaces

Adding Queries to VXU Interfaces

A Narrative About Allscripts and Indiana (CHIRP)

Danny Wise

Senior Systems Analyst

Development, Allscripts Public Health Reporting Hub

Cameron Minich

CHIRP Support / Meaningful Use Coordinator

Indiana State Department of Health

Query Profiles (Z34 vs. Z44)

- HL7 v. 2.5.1 rel. 1.4 IG only defines one profile set
  - QBP – Z34
  - RSP
    - Z31 – multi-match
    - Z32 – exact match
    - not found (Z33?)

- HL7 v. 2.5.1 rel. 1.5 IG defines new Z44 QBP and Z42 RSP profiles
  - Z42 RSP profile includes evaluation and forecasting observations (utilizes CDSi at the IIS)
  - Z32 RSP profile does not include evaluation and forecasting (no CDSi utilization)

- 2015 CEHRT Certification only tests for Z44-profile QBPs

Query Profiles (Z34 vs. Z44)

- Explanation from CDC:
  - Z44 QBP profile / Z42 RSP profile intended for IIS – EHR data sharing
    - evaluation and forecasting useful to clinicians
  - Z34 QBP profile / Z32 RSP profile reserved for IIS – IIS data sharing
    - "data dump" includes observations not necessarily useful to clinicians (e.g., VIS, VFC eligibility)

- Allscripts decision – keep it simple for providers, stick with one query type
  - preference is Z44 QBPs / Z42 RSPs (when supported by IIS) to get evaluation and forecasting observations
  - support Z34 QBPs / Z32 RSPs when IIS hasn't fully updated to rel. 1.5 yet

Supported Data Elements

- **Immunization History**
  - **Vaccine Identifier (CVX code)**
  - **Administration Date**
  - Dosage
  - Lot #
  - Manufacturer
  - Refusals (RXA-20 = RE)
  - Partial Administrations (RXA-20 = PA)
  - *Deletions (RXA-21 = D) explicitly ignored for now*
  - *Contraindications (RXA-20 = NA and RXA-5 <> 998) explicitly ignored for now*

Supported Data Elements

- Evaluation and Forecasting
  - Vaccine Identifier (CVX codes)
    - Vaccine Type (LOINC 30956-7)
    - Component Vaccine Type (LOINC 38890-0)
    - Vaccine Due Next (LOINC 30979-9)
    - *Locally-defined codes / text strings are problematic!*
      - *Series Name (LOINC 59780-7)*
      - *Locally-defined "LOINC-like" code*

Supported Data Elements

- Evaluated History
  - Dose Validity (LOINC 59781-5)
  - Reason (LOINC 30982-3)
  - Dose Number in Series (LOINC 30973-2)
  - Total # Doses in Series (LOINC 59782-3)
  - Immunization Schedule Used (LOINC 59779-9)

Supported Data Elements

- Forecasting
  - Date Vaccine Due (LOINC 30980-7)
  - Earliest Date to Give (LOINC 30981-5)
  - Latest Date to Give (LOINC 59777-3)
  - Date Dose Overdue (LOINC 59778-1)
  - Dose Number in Series (LOINC 30973-2)
  - Total # Doses in Series (LOINC 59782-3)
  - Status in Series (LOINC 59783-1)
  - Reason (LOINC 30982-3)
  - Immunization Schedule Used (LOINC 59779-9)

Vendor-driven Testing

- Pre-Development Discovery

- Hub Developer Unit Testing

- Hub QA Testing

- End-to-End Integration Testing with EHR Applications

Pilot Implementation

- 2-location family practice

- Allscripts Professional EHR

- No separate Test EHR environment

- Existing "live" VXU interface with CHIRP via Allscripts Public Health Reporting Hub
  - Hub's connection with CHIRP is "single creds"

Pilot Implementation

- Manually-triggered queries
  - transmission / polling delays
  - import process / record reconciliation
  - multi-match reconciliation
  - …too much time in front of the computer for providers at point of care ☹

- Automatically-triggered queries
  - nightly batch job for patients with appointments scheduled the following day
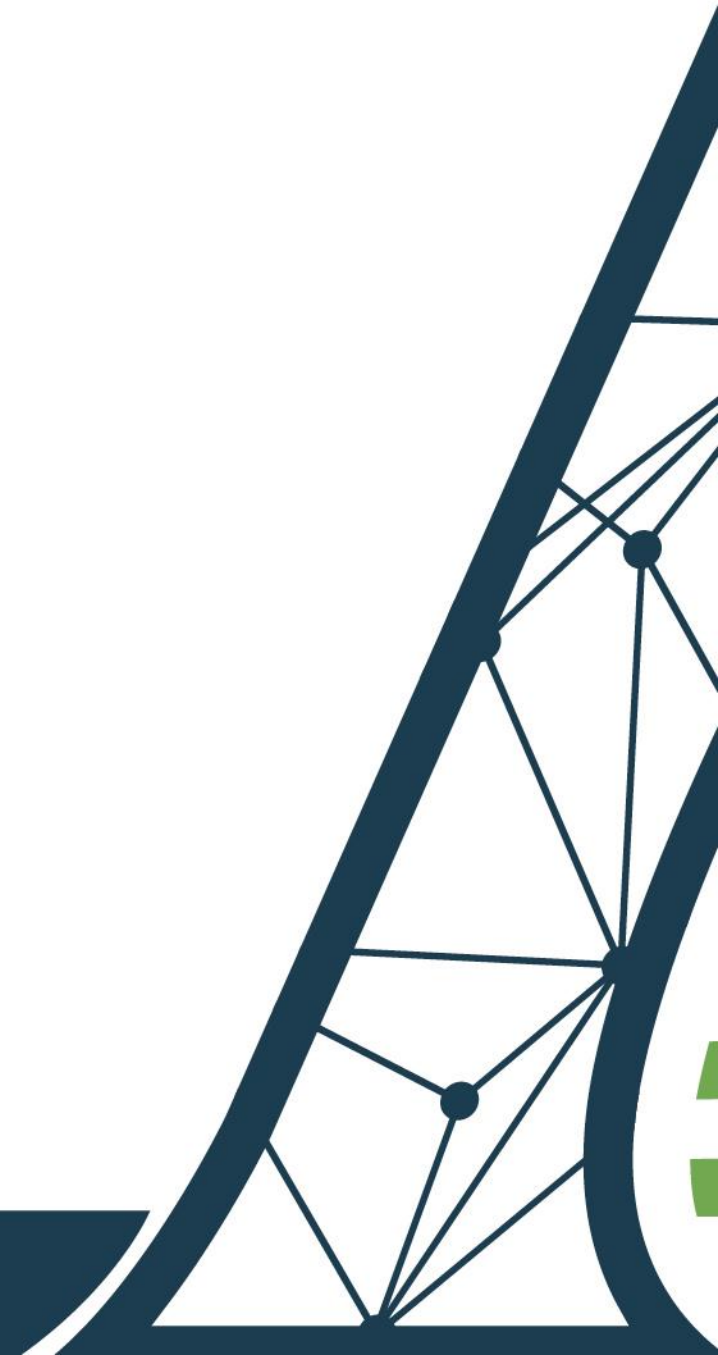 - immunization history in patient's chart by point of care

CHIRP Perspective

- IIS Upgrades (PHC-Hub)

- Patient Matching in "Old" System vs. PHC-Hub
  - Impact of Allscripts Hub model with "single creds" configuration

- Allscripts "New Hub" (QBPs) Move to PHC-Hub but "Old Hub" Still Sends VXUs to "Old" IIS System
  - Impact to CDSi / forecasting

- Concerns About Volume of Automated Queries
  - Recommended filtering guidelines

Next Meeting

Thursday, June 14th

2:00 pm ET / 11:00 am PT

More Information

- Web Links
  - Subscribe to immunization group
    http://www.hl7.org/participate/UserGroups.cfm?UserGroup=Immunization
  - Public User Group Wiki
    http://www.hl7.org/special/committees/iug/index.cfm
  - Private User Group Wiki
    http://iugwiki.hl7.org/
  - HL7 Press Release
    http://www.hl7.org/documentcenter/public_temp_F760602A-1C23-BA17-0C0D326E635471F9/pressreleases/HL7_PRESS_20140402.pdf
  - AIRA Press Release
    http://www.immregistries.org/events/2014/04/10/hl7-immunization-user-group

Contact Information

If you have any questions or comments:

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- Kevin Snow ksnow@envisiontechnology.com

- Danny Wise Danny.Wise@allscripts.com

Thank you!