AART User Group

Mini-Series
March 25, 2020
4:00 PM ET
Agenda

• Welcome
  • Mentimeter: How it works! Poll: who is attending?
  • Goals & Background
  • Reminder: Register for AART

• HL7 Assessment and Discovery Reports
Polling

• We are using Mentimeter to capture your feedback and ideas on plans for future meetings
• In future sessions, we will use Mentimeter to capture questions and poll the group in real-time to guide the discussion and make sessions interactive

1. Take out your smartphone
2. Using your browser, go here: www.menti.com, enter code 81 00 61
Goals

1) Increase the use of AART to:
   ✓ identify areas for improvement,
   ✓ prioritize IIS enhancements,
   ✓ test new IIS functionality,
   ✓ and reflect on accomplishments.

2) Support your use of AART by convening a group of engaged users to share and learn from one another
Background and Review

AART is... the Aggregate Analysis Reporting Tool

AART was developed to visualize and compile the testing results and information on community-driven measures and tests related to Functional Standards

Did you know...
1. AART has been testing with IIS since 2015
2. There are over 6 million test cases in AART
3. You can view test results for your peer IIS at the content area level, and at the test case level


Measurement and Improvement Initiative – What Is it?

- The IIS Measurement and Improvement (M&I) Initiative began in 2015 as an effort to:
  - Test IIS alignment with standards
  - Provide IIS with information and assistance to improve
Thank You For Engaging With Us!

- Participation is strong and results are being reviewed and acted upon
- Partners are publicly recognizing improvements in standardization across IIS
- We are seeing progress in all areas of quarterly measurement
AART Clinics

- In person, @ AIRA National Meeting
  ✓ Sign up soon for your spot for AIRA 2020

- Virtually, via online meeting tools

- Request a clinic or follow up clinic anytime!
AART User Group Mini-Series
Goals

1) Increase the use of AART to:
   ✓ identify areas for improvement,
   ✓ prioritize IIS enhancements,
   ✓ test new IIS functionality,
   ✓ and reflect on accomplishments.

2) Support your use of AART by convening a group of engaged users to share and learn from one another
AART User Group Mini-Series

Session 1: Introduction to Series, polling for future topics
Session 2: HL7 Discovery & Assessment Reports  Today!
Session 3: Clinical Decision Support
Session 4: User Experience – HL7 Assessment
Session 5: User Experience – Clinical Decision Support
Session 6: topic TBD
AART Registration

- AART login page
- Register here
  - Forgot your password
- AART Updates

Reminder! If you haven’t registered yet you can do that today!
HL7 Discovery & Assessment Reports

Nathan Bunker
HL7 Discovery & Assessment Reports

• Topics for today
  • Submission and Acknowledgement Assessment
  • Query and Response Assessment
  • HL7 Discovery
AIRA Sandbox

• AIRA Sandbox
  • IIS HL7 demonstration system
  • Fully supports HL7 functions

• Configured to:
  • Require all VXU’s to have at least one vaccination or refusal
  • Require patient address
  • Return query responses with mistakes in HL7 format
Navigating Assessment Reports

• Click for more detail
  • Report provides a summary
  • Drill down for more information

• AART is like an onion:
  • Report Dashboard
  • Assessment Report
  • Measure Detail
  • Test Detail
  • HL7 Detail
Navigating Assessment Reports

- **Meets**
  - Congratulations, this measure or test has been met.

- **Deviates From Standard**
  - Measure or test expectation has been met. But there are local requirements to consider.

- **Does Not Meet**
  - Measure or test expectations were not met. IIS may have small or large changes needed.
Navigating Assessment Reports

AIRA Sandbox Dashboard

Assessment

Transport
Q3 2019

Submission and Acknowledgement
Q1 2020

Query and Response
Q1 2020

AIRA Sandbox

Prepared for AIRA Sandbox

IIS Assessment Connectivity Details

<table>
<thead>
<tr>
<th>IIS</th>
<th>AIRA Sandbox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Created By</td>
<td>Nathan Bunker</td>
</tr>
<tr>
<td>Published Date</td>
<td>03/24/2020</td>
</tr>
<tr>
<td>Run Date</td>
<td>03/24/2020 Request New Report</td>
</tr>
<tr>
<td>Report Status</td>
<td>Released</td>
</tr>
</tbody>
</table>

Background

In 2015, AIRA launched an Interoperability Testing Project to determine the interoperability between current Immunization Information Systems (IIS) and the corresponding standards. The project is heavily informed by IIS Functional Standard Statements. The testing process connects with IIS directly and submits data to development platforms.
Navigating Assessment Reports

The following words were carefully chosen and defined to mean the following within each measure:

- **Processes**: This means the IIS reads the incoming message and makes appropriate decisions (e.g., de-duplicates, stores, queries, rejects, etc.) based on the information in the incoming message and previously known information already in the IIS.
- **Responds**: This means the IIS returns a final resolution, or outcome, of processing the message with a conformant HL7 message.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Measure Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The IIS processes an administered vaccine for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>2</td>
<td>The IIS processes a historical vaccine for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>3</td>
<td>The IIS processes the submission of a full immunization record for a patient.</td>
<td>Meets</td>
</tr>
<tr>
<td>4</td>
<td>The IIS processes an update to a previously submitted vaccination event.</td>
<td>Meets</td>
</tr>
<tr>
<td>5</td>
<td>The IIS processes a delete to a previously submitted vaccination event.</td>
<td>Meets</td>
</tr>
<tr>
<td>6</td>
<td>The IIS processes a submission where the patient does not give consent (i.e., patient data is protected) to share data.</td>
<td>Meets</td>
</tr>
<tr>
<td>7</td>
<td>The IIS processes a refusal of a vaccination.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>8</td>
<td>The IIS processes an adverse event.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>9</td>
<td>The IIS processes an observation about a patient which results in a contraindication or immunity to a vaccine preventable disease.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>10</td>
<td>The IIS processes messages in accordance with the HL7 2.5.1, release 1.5 guide.</td>
<td>Deviates From Standard</td>
</tr>
<tr>
<td>11</td>
<td>The IIS processes both complete and incomplete/partially administered doses.</td>
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<td>12</td>
<td>The IIS responds to a correctly formatted message with no errors.</td>
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<td>13</td>
<td>The IIS responds to a submission that has an error.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>14</td>
<td>The IIS responds to a submission with an ACK within 5 seconds or less for 95% of the records submitted.</td>
<td>Meets</td>
</tr>
<tr>
<td>15</td>
<td>IIS supports NDC 11-digit with hyphens</td>
<td>Meets</td>
</tr>
<tr>
<td>16</td>
<td>IIS supports alternative NDC formats</td>
<td>Meets</td>
</tr>
</tbody>
</table>

9: The IIS processes an observation about a patient which results in a contraindication or immunity to a vaccine preventable disease.

**Purpose**

The processing of an observation about a patient which may result in a contraindication or immunity is a CDC Endorsed Data Element for IIS to collect. This information can be used to contraindicate or prevent unnecessary future vaccinations. The information can also be useful information for physicians through query/response. The ACK from the IIS will be reviewed for acceptance of the submitted message, but conformance to the ACK standard is not part of this measurement. Other measures address ACK conformance.

**Functional Standards**

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 1.6**: The IIS assures the receipt, processing, and storage of demographic and vaccination data elements as endorsed by CDC.
  - **Note**: This only measures the "receipt and process" portion of this Functional Standard. The "store" portion is measured leveraging query and response.
- **Functional Standard 8.2**: The IIS receives submissions and returns acknowledgments consistent with the current CDC-endorsed HL7 Implementation Guide.

**Test Outcome**

Measure was not met because the expectations of one or more of the Test Cases was not met.
Navigating Assessment Reports
Navigating Assessment Reports

**AIRA Sandbox**

Prepared for AIRA Sandbox

IIS Assessment Connectivity Details

<table>
<thead>
<tr>
<th>IIS</th>
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</table>

Created By: Nathan Buckley

**Test Case Results**

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Test Case Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Administered Vaccine is submitted to the IIS - Fully Populated</td>
<td>Meets</td>
</tr>
</tbody>
</table>

Compare

Compare with My Peers
Submission & Acknowledgement Assessment
Submission & Acknowledgement Assessment

• Begin at list of measures
• Focus on “Does Not Meet”
  • Often a minor change can bring these into “Meets”
• Review “Deviates from Standard”
  • Ensure local requirements are accurate and necessary

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<td>Meets</td>
</tr>
</tbody>
</table>
8: The IIS processes an adverse event.

Purpose

The processing of an adverse event related to a vaccination event is a CDC Endorsed Data Element for IIS to collect. This information can be used to contraindicate future vaccinations and inform physicians through query/response. The ACK from the IIS will be reviewed for acceptance of the submitted message, but conformance to the ACK standard is not part of this measurement. Other measures address ACK conformance.

Functional Standards

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 1.6:** The IIS assures the receipt, processing, and storage of demographic and vaccination data elements as endorsed by CDC.
  - **Note:** This only measures the "receipt and process" portion of this Functional Standard. The "store" portion is measured leveraging query and response.
- **Functional Standard 8.2:** The IIS receives submissions and returns acknowledgements consistent with the current CDC-endorsed HL7 Implementation Guide.

Test Outcome

Measure was not met because the expectations of the Test Case was not met.

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Test Case Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1</td>
<td>Two Messages - Vaccination Event followed by an Adverse Event</td>
<td>Does Not Meet</td>
</tr>
</tbody>
</table>
8.1: Two Messages - Vaccination Event followed by an Adverse Event

Test Case Description

- Two messages will be submitted. The first will be a vaccination event. The second will be an adverse event close in time (i.e., same day, next day) to the vaccination event. Both messages will be populated to meet conformance of the National IG with population of all R and RE usage segments and fields. The adverse event will be a value from PHVS_VaccinationReaction_IIS (OID: 2.16.840.1.114222.4.11.3289).

Test Case Expectation

- The IIS responds with an ACK for each message indicating it has accepted each message. The ACK for the second message should not indicate the adverse event was ignored or otherwise not successfully accepted by the IIS.

Test Outcome

The second test message was not accepted, the first message could not be updated.

Results Does Not Meet
Actual Request (Not Accepted)

MSH|^~\&|20200323102500-0600|VXU^V04^VXU_V04|2w45-SA.8.1.2|P|2.5.1|ER|AL|Z22^CDPHINVS
PID|1|T47K25941^^AIRA^MR|GrahamAIRA^ShelleyAIRA^Crystal^^^L|AppanooseAIRA^DrewAIRA^^^^M|20160312|F|2106-3^White^CDCf
PDI|1|02^Reminder/Recall - any method|HL70215|N|20200323|A|20200323|20200323
NK1|1|GrahamAIRA^AppanooseAIRA^Marion^^^L|MTH^Mother^HL70063|1549 Verbranden P1^GR^MI^49507^USA^P|PRN^PH^616^4144375
ORC^RE|9999^AIRA|
RXA|0|1|20170323|998^No Vaccine Administered^CVX|999
OBX|1|CE|31044-1^Reaction^LN|1|39579001^Anaphylaxis^SCT

Actual Response

MSH|^~\&|IIS Sandbox v0.2.12|20200324015322-0600|ACK^V04^ACK|1585079602826124|P|2.5.1|NE|NE|Z23^CDPHINVS
MSA|AE|2w45-SA.8.1.2
ERR|101^Required field missing^HL70357|E|Patient vaccination history cannot be accepted without at least one admin
Submission & Acknowledgement Assessment

- Begin at list of measures
- Focus on “Does Not Meet”
  - Often a minor change can bring these into “Meets”
- Review “Deviates from Standard”
  - Ensure local requirements are accurate and necessary
10: The IIS processes messages in accordance with the HL7 2.5.1, release 1.5 guide.

Purpose

Release 1.5 of the HL7 2.5.1 implementation guide specifies the core requirements of an HL7 message across various vaccine-related information that can be submitted. The purpose of this measure is to measure IIS ability to accept messages when only the minimally required information is supplied. The ACK from the IIS will be reviewed for acceptance of the submitted message, but conformance to the ACK standard is not part of this measurement. Other measures address ACK conformance.

Functional Standards

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 1.6**: The IIS assures the receipt, processing, and storage of demographic and vaccination data elements as endorsed by CDC.
  - **Note**: This only measures the "receipt and process" portion of this Functional Standard. The "store" portion is measured leveraging query and response.

- **Functional Standard 8.2**: The IIS receives submissions and returns acknowledgements consistent with the current CDC-endorsed HL7 Implementation Guide.
Test Outcome

Measure conforms to expectations because all Test Cases conform to expectations.

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Test Case Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1</td>
<td>Message will contain a minimally populated message with 1 administered dose</td>
<td>Deviates From Standard</td>
</tr>
<tr>
<td>10.2</td>
<td>Message will contain a minimally populated message with 1 historical dose</td>
<td>Deviates From Standard</td>
</tr>
<tr>
<td>10.3</td>
<td>Message will contain a minimally populated message with 1 refusal</td>
<td>Deviates From Standard</td>
</tr>
<tr>
<td>10.4</td>
<td>Message will contain a minimally populated message with one adverse event</td>
<td>Deviates From Standard</td>
</tr>
<tr>
<td>10.5</td>
<td>Message will contain a minimally populated message with 1 observation</td>
<td>Deviates From Standard</td>
</tr>
</tbody>
</table>
10.1: Message will contain a minimally populated message with 1 administered dose

Test Case Description

- The message will contain all R usage segments and fields. RE and O usage segments and fields will not be populated. The message will contain 1 administered dose.

Test Case Expectation

- The IIS responds with an ACK indicating it has accepted the message. The ACK should not indicate the immunization was ignored or otherwise not successfully accepted by the IIS.

Test Outcome

The IIS accepted the message but only if it custom changes were made to the message. This means the IIS deviates from the standard for this measure.

Results Deviates From Standard
Actual Request (Not Accepted)

No Address

Actual Response

No Address
The original assessment test message (which is shown above) was not accepted, but after custom/local modification based on requirements for this IIS the message was accepted.

Actual Request after Transformation (Accepted)

```
MSH|~\&||20200323102500-0600||VXU^V04^VXU_V04|2w45-SA.10.1.1-D|P|2.5.1||ER|L||Z22^CDCPHINV5
PID|\|W48K25642^^AIRA^MR||ProvidenceAIRA^DanaeAIRA^^^L||20180312|F||202 Wexford Ave^^Kincheloe^MI^49788|
ORC|RE||Bw48K25642.1^AIRA
RXA|0|1|20200323||94^MMRV^CVX|0.5^milliliters^UCUM||00^Administered^NIP001|||Q3110HZ|Msd^Merck and Co^MVX|||A
OBX|1|CE|64994-7^Vaccine funding program eligibility category^LN||1|V02^VFC eligible - Medicaid/Medicaid Managed Care^HL78|
OBX|2|CE|69764-9^Document Type^LN||2|253088698300013411190815^MMRV Vaccine VIS^cdcg1vis|F
OBX|3|DT|29769-7^Date Vis Presented^LN||2|20200323|F
```

Actual Response after Transformation

```
MSH|^\&||IIS Sandbox v0.2.12||20200324015320-0600||ACK^V04^ACK|158507960012442|P|2.5.1||NE|NE||Z23^CDCPHINV5
MSA|AA|2w45-SA.10.1.1-D
```
Submission & Ack Assessment

- Any specific measures you would like clarification or discussion on?
Query & Response Assessment
Query & Response Assessment

- Begin at list of measures
- Focus on “Does Not Meet”
  - Often a minor change can bring these into “Meets”
- Review “Deviates from Standard”
  - Ensure local requirements are accurate and necessary
3: The IIS responds to a query for a known patient (one-to-one match).

Purpose

The purpose of this measure is to validate an IIS is able to respond with a conformant response (RSP) message when exactly one patient is found.

Functional Standards

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 8.3**: The IIS receives queries from, and sends responses to, health information systems consistent with the current CDC-endorsed HL7 Implementation Guide.

Test Outcome

Measure was not met because the expectations of one or more of the Test Cases was not met.

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Test Case Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Validate Complete Immunization History Response (Z32)</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>3.2</td>
<td>Validate Evaluated Immunization History and Forecast Response (Z42)</td>
<td>Does Not Meet</td>
</tr>
</tbody>
</table>
3.1: Validate Complete Immunization History Response (Z32).

Test Case Description

- Two messages will be submitted to the IIS. The first will be a submission (VXU) message followed by a query (QBP) for the patient submitted in the VXU. The submission (VXU) message will be populated to meet conformance of the National IG with population of all R and RE usage segments and fields including two historical vaccination events. The query (QBP) will be submitted with identical demographics and MRN. The query will be the Complete Immunization Record profile (Z34).

Test Case Expectation

- **VXU Message:** The IIS responds with an ACK indicating it has accepted the message.
- **QBP Message:** The IIS responds with a conformant complete immunization record response profile (RSP Z32 profile). The data itself (e.g., Name, DOB, gender, etc.) will not be validated. Only that the response returned conforms to the expectations of the National IG.

Test Outcome

IIS accepted update message and query response was returned but NIST indicated that the response does NOT conform to current standards.

Results: Does Not Meet
See Test Details
The National Institute of Standards and Technology (NIST) provides a service for verifying the conformance of immunization messages to software. For a complete list of all errors, warnings, and assertions please use NIST's tool. For the sake of brevity this section only reports Response Does NOT Meet NIST Standards.

The response was validated against the NIST validator for immunization messages and problems were found. Please review carefully. Below is a table of the issues found:

<table>
<thead>
<tr>
<th>Location</th>
<th>Result</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSH[1]-4[1].1</td>
<td>error</td>
<td>LENGTH</td>
<td>The length of Component MSH-4.1 (Namespace ID) must be within the range [1, 20].</td>
</tr>
<tr>
<td>ORC[1]-2[1].2</td>
<td>error</td>
<td>LENGTH</td>
<td>The length of Component ORC-2.2 (Namespace ID) must be within the range [1, 20].</td>
</tr>
<tr>
<td>ORC[3]-3[1].1</td>
<td>error</td>
<td></td>
<td>IZ-45 - If RXA-20 is valued &quot;NA&quot; or &quot;RE&quot; then ORC-3.1 SHALL be valued &quot;9999&quot;.</td>
</tr>
<tr>
<td>PID[1]-11[1].7</td>
<td>error</td>
<td>R_USAGE</td>
<td>The required Component PID-11.7 (Address Type) is missing</td>
</tr>
<tr>
<td>RXA[1]-9[1].1</td>
<td>error</td>
<td></td>
<td>IZ-47 - If RXA-20 (Completion Status) is not valued or the value of RXA-20 (Completion Status) is not one</td>
</tr>
<tr>
<td>Path</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RXA[1-9][1-1]</td>
<td>IZ-47 - If RXA-20 (Completion Status) is not valued or the value of RXA-20 (Completion Status) is not one of List Values: &quot;CP&quot;, &quot;PA&quot; then RXA-91 (Identifier) SHALL NOT be valued.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RXA[2-9][1-1]</td>
<td>IZ-47 - If RXA-20 (Completion Status) is not valued or the value of RXA-20 (Completion Status) is not one of List Values: &quot;CP&quot;, &quot;PA&quot; then RXA-91 (Identifier) SHALL NOT be valued.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORC[3-3][1-1]</td>
<td>IZ-46 - If RXA-20 is valued &quot;NA&quot; or &quot;RE&quot; then ORC 3.1 SHALL be valued &quot;9999&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORC[1-2][1-2]</td>
<td>The length of Component ORC-2.2 (Namespace ID) must be within the range [1, 20]. Value = &quot;AART Florence Lima Bilberry Blackberry&quot;</td>
<td></td>
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Query & Response Assessment

• Begin at list of measures
• Focus on “Does Not Meet”
  • Often a minor change can bring these into “Meets”
• Review “Deviates from Standard”
  • Ensure local requirements are accurate and necessary
5: The IIS responds to a query that results in multiple possible patients.

Purpose

The purpose of this measure is to validate an IIS is able to respond with a conformant response (RSP) message when multiple possible patients are found.

Functional Standards

This measure is supported by the following version 4.0 functional standards:

- **Functional Standard 8.3:** The IIS receives queries from, and sends responses to, health information systems consistent with the current CDC-endorsed HL7 Implementation Guide.

Special Note

*Measure 5 is not being assessed at this time. To properly assess Measure 5 an intentional duplicate patient must be created in the IIS. To date, the AIRA Measurement and Improvement project has been unable to create this duplicate consistently across all participants leading to varied results and false negatives. To maintain comparability across IIS, this measure is not counted or scored, but the concept may be revisited in the future.*
Query & Response Assessment

- Any measures that you would like to have clarification or discussion on?

<table>
<thead>
<tr>
<th>Measure</th>
<th>Measure Title</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The IIS processes a query requesting a patient's immunization record.</td>
<td>Meets</td>
</tr>
<tr>
<td>2</td>
<td>The IIS processes a query requesting a patient's evaluated immunization record and forecast.</td>
<td>Meets</td>
</tr>
<tr>
<td>3</td>
<td>The IIS responds to a query for a known patient (one-to-one match).</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>4</td>
<td>The IIS responds to a query for a patient that is not in the IIS.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>5</td>
<td>The IIS responds to a query that results in multiple possible patients.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>6</td>
<td>The IIS responds to a query that has a significant error that cannot be accepted.</td>
<td>Does Not Meet</td>
</tr>
<tr>
<td>7</td>
<td>The IIS responds to a query for a known patient and returns known CDC Endorsed Data Elements.</td>
<td>Meets</td>
</tr>
<tr>
<td>8</td>
<td>The IIS responds to a query with an RSP within 5 seconds or less for 95% of the queries submitted.</td>
<td>Meets</td>
</tr>
</tbody>
</table>
HL7 Discovery
HL7 Discovery

- Discovery report is hidden by default
  - Click link at the bottom of dashboard
HL7 Discovery

- Any of these areas that you would like to see clarification or discussion on?
AIRA Sandbox Recommendations

• AIRA Sandbox
  • IIS HL7 demonstration system
  • Fully supports HL7 functions

• Fixes needed:
  • Look at policy to accept VXU’s with other non-administration information
  • Review business need for address
  • Fix format of query responses
Join Us Next Month!

- Wednesday, April 22
  - 4:00 – 5:00 pm, ET
Contact Information

If you have any questions or comments:

• Nathan Bunker  nbunker@immregistries.org

Thank you!