

AIRA
Workshop

March 27, 2011
Washington, D.C.



Immunization Information Systems for a New Era



AIRA Pre-Conference Workshop
Sunday, March 27, 2011 – 2:00 p.m. to 5:00 p.m.
Hilton Washington, Lincoln West

IIS INTEROPERABILITY & MEANINGFUL USE

OBJECTIVES

- Become familiar with the major players and their roles in Meaningful Use
 - Become familiar with the major milestones in the Meaningful Use effort
 - List responsibilities of IIS in Meaningful Use
 - List three challenges you face in responding to Meaningful Use
 - Describe at least one strategy to confront each challenge
 - Describe how the IIS community can support each other in responding to Meaningful Use
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MODERATOR

Rob Savage

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Mike Suralik
Kristen Forney
Mike Garcia

GROUP FACILITATORS

Mike McPherson
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Nathan Bunker
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Eric Larson
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Stuart Myerburg

AGENDA

- 2:00 Welcome and Introductions
- 2:10 Workshop Learning Objectives and Attendee Expectations
- 2:15 The Nuts & Bolts of Meaningful Use
- 2:45 Work Groups
- 3:35 Break
- 3:50 Work Group Reports
- 4:20 Demonstrations
- 4:50 Wrap-up

AIRA Workshop

Moderators, Facilitators, & Presenters

IIS Interoperability & Meaningful Use

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Making Meaningful Use a Meaningful Experience

Presented by AIRA



Rob Savage

Northrop Grumman contractor supporting IISB interoperability efforts

- V 2.5.1 Implementation Guide
- Support vocabulary needs for Immunization messaging
- Co-chair of AIRA Standards and Interoperability Steering Committee (SISC) workgroup
- Working with IIS since 1989

Meeting Goals

Become familiar with the major players and their roles in Meaningful Use (MU)

Become familiar with the major milestones in MU effort

List responsibilities of IIS in MU

List 3 challenges you face in responding to MU

Describe at least one strategy to confront each challenge

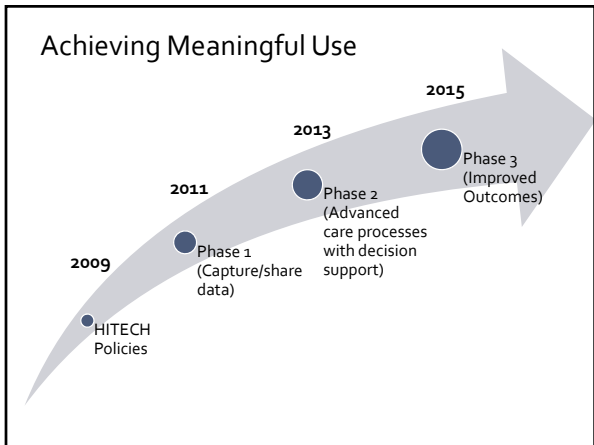
Describe how the IIS community can support each other in responding to MU

What is Meaningful Use

Financial incentive
Through use of certified EHR

End goal:

- Incentive (\$\$)
- Reduction medical errors




Components of Meaningful Use

1. The use of a certified Electronic Health Record (EHR) in a meaningful manner, such as e-prescribing.
2. The use of certified EHR technology for electronic exchange of health information to improve quality of health care.
3. The use of certified EHR technology to submit clinical quality and other measures.

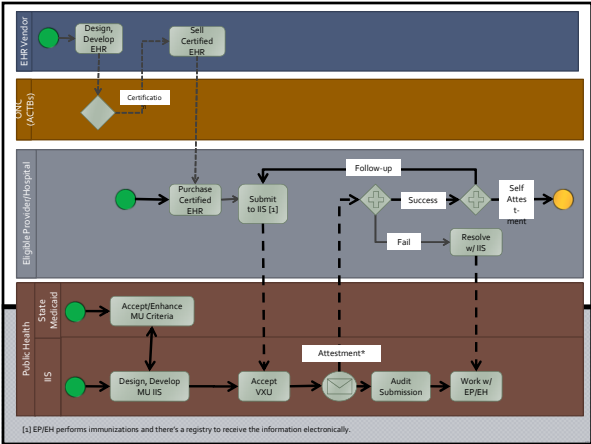
Why Submit to an Immunization Information System?

Objective: Health outcomes
 Specifically – Improving population and public health
 Care goal: Patient's health care team communicates with public health agencies
 Other public health criteria:

- Syndromic surveillance
- Reportable lab results



Immunization Registries Data Submission	
Objective	Capability to submit electronic data to immunization registries or immunization information systems and actual submission according to applicable law and practice.
Measure	Performed at least one test of certified EHR technology's capacity to submit electronic data to immunization registries and follow up submission if the test is successful (unless none of the immunization registries to which the EP submits such information has the capacity to receive the information electronically).
Exclusion	An EP who administers no immunizations during the EHR reporting period or where no immunization registry has the capacity to receive the information electronically.



Additional Information

Simulated transfers are not acceptable
Test data is acceptable
Unsuccessful test is considered valid
Only one test per certified EHR in multi-EP environment
After successful test EP/EH should institute "regular" reporting

What To Expect Next

Plan/Execute Stage 1

- Contact partners
 - Regional Extension Center (REC)
 - State Medicaid agency
 - State Health Information Exchange (HIE) agency
- Prepare for contact from EHR vendors
 - Interface document

Prepare for Stage 2

Some Considerations

What other Public Health criteria are available in your state?

- Reportable lab results
- Public health surveillance

Does your state Medicaid agency plan to follow/enhance MU criteria?

Have you contacted your REC yet?

What are your state HIE plans?

Available Resources

- Regional Extension Centers (RECs)
 - Education
 - MU subject matter experts
- State Medicaid agency
- National Institute of Standards & Technology (NIST)
 - Tools and use cases
- CDC
 - IIS MU
 - IIS standards
- AIRA

Work Group Activities

Preparing for Meaningful Use

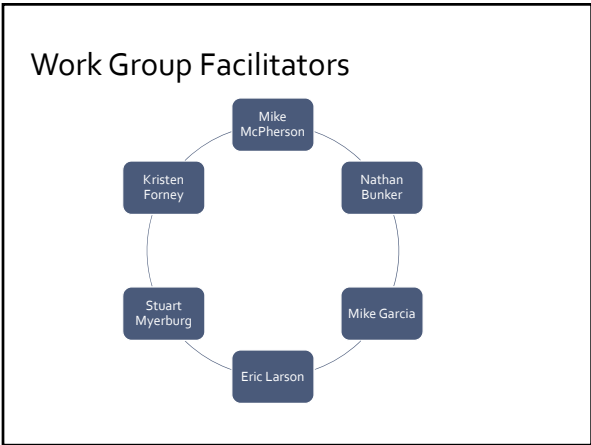
MU efforts do not guarantee meaningful communication

MU encourages movement towards meaningful communication

Let's focus on supporting MU attestation and testing with an eye towards meaningful communication

Barriers to MU

Request volume high/need staff
Need process for handling requests
Need Safe place to test
Need plan for testing and attestation
Dealing with HIE and other systems
HL7 not currently implemented
IIS & Provider are ready, but EHR is not



Work Group Tasks

Identify a scribe/reporter
Choose one or more issues to focus on
Identify the responsibilities of IIS

- Barriers/challenges
- Solutions
- Success measures

Report back


15 Minute Break



Work Group Reports



presentations



Wrap-up

American Immunization Registry Association
 Phone: (202) 527-7000 • Fax: (202) 833-3636

References

Final Rule - edocket.access.gpo.gov/2010/pdf/2010-17207.pdf
 Meaningful Use Wordle: <http://www.tedeytan.com/wp-content/uploads/2010/08/LygeiaWordle.jpg>
 HIT Initial Set of Standards - edocket.access.gpo.gov/2010/pdf/2010-17207.pdf
 NIST MU tester - xreg2.nist.gov:8080/HL7v2MuValidation2011/
 NIST MU use cases - xv2k.nist.gov/healthcare/use_testing/finalized_requirements.html
 ONC - healthit.hhs.gov/portal/server.pt/community/healthit_hhs_gov_home/1204
 List of certified EHR products - onc-chpl.force.com/ehrcert
 CDC IIS MU - cdc.gov/osels/phitpo/mu/immunization.html
 CDC IIS standards - cdc.gov/vaccines/programs/iis/stds/standards.htm
 NIST test VXU_Vo4 messages - xreg2.nist.gov:8080/HL7v2MuValidation2011/#documentation.htm
 HITECH 101 - www.everythinghitech.com/everything-hitech/hitech-101-program-overview.html
 EHR Incentive spec sheets - <https://www.cms.gov/EHRIncentivePrograms/Downloads/EP-MU-TOC-Core-and-MenuSet-Objectives.pdf>

New York City
Citywide Immunization Registry (CIR)

Tool for
HL7 Quality Assurance
and Account Management

AIRA Pre-Conference Workshop
National Immunization Conference
March 27, 2011

Mike Suralik, HLN Consulting LLC
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When Tool Is Needed

- Testing with each EHR system vendor
- Testing with each Healthcare Facility
- Ongoing QA in Production environment

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Major Features

- Create and manage HL7 accounts
- Perform QA on VXU messages
 - QA by facility and date range
 - Display statistics (# received, # w/errors, # w/o errors)
 - List the messages for each statistic
 - List parsed field values for each message
 - Display errors and warnings at field level
 - Export list of messages to Excel file

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Future Enhancements

- Add More Reports
 - List most common errors by segment/field for the selected facility and time period
 - List all facilities, sorted by total # of errors during selected time period
 - List facilities with a sudden decrease in the total number of messages sent
- Add QA support for VXQ messages

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Resources

Eligible Providers

Medicaid

Physician
Dentist
Certified Nurse-Midwife
Nurse Practitioner
Physician Assistant practicing in a Federally Qualified Health Center (FQHC) or a Rural Health Clinic (RHC), led by a Physician Assistant

Medicaid

Doctor of Medicine or Doctor of Osteopathy
Doctor of Dental Surgery or Dental Medicine
Doctor of Podiatric Medicine
Doctor of Optometry
Chiropractor

Eligible Hospital

Acute care
Excluding long term care facilities
Critical access hospital
Children's hospital
Hospital based EPs not eligible

Available Resources

Regional Extension Center (REC)

- Provide training and support services to assist doctors and other providers in adopting EHRs
- Offer information and guidance to help with EHR implementation
- Give technical assistance as needed

National Institute of Standards & Technology (NIST)

- Responsible for leading core health IT testing infrastructure
- Tools to verify HL7
 - 2.3.1 & 2.5.1 validation
 - View errors
 - Downloadable Java apps
- Use cases to help you test

Certified HIT Products

onc-chpl.force.com/ehrcert

- Select Practice Type
 - Ambulatory (350 products as of 3/22/2011)
 - Inpatient (149 products as of 3/22/2011)

Submission to Immunization Information Systems

General Criteria §170.302(k)

http://healthcare.nist.gov/docs/170.302.k_Immunizations_v1.0.pdf

NIST 2.3.1. Example VXU

The following is an example VXU message. A VXU is an unsolicited immunization history. The highlighted fields show areas where one IIS found differences between their implementation and the NIST testing results. The comment on CVX vs HL70292 is about the NIST testing and not the usage as described in the Implementation Guide. Either value may be used in that location.

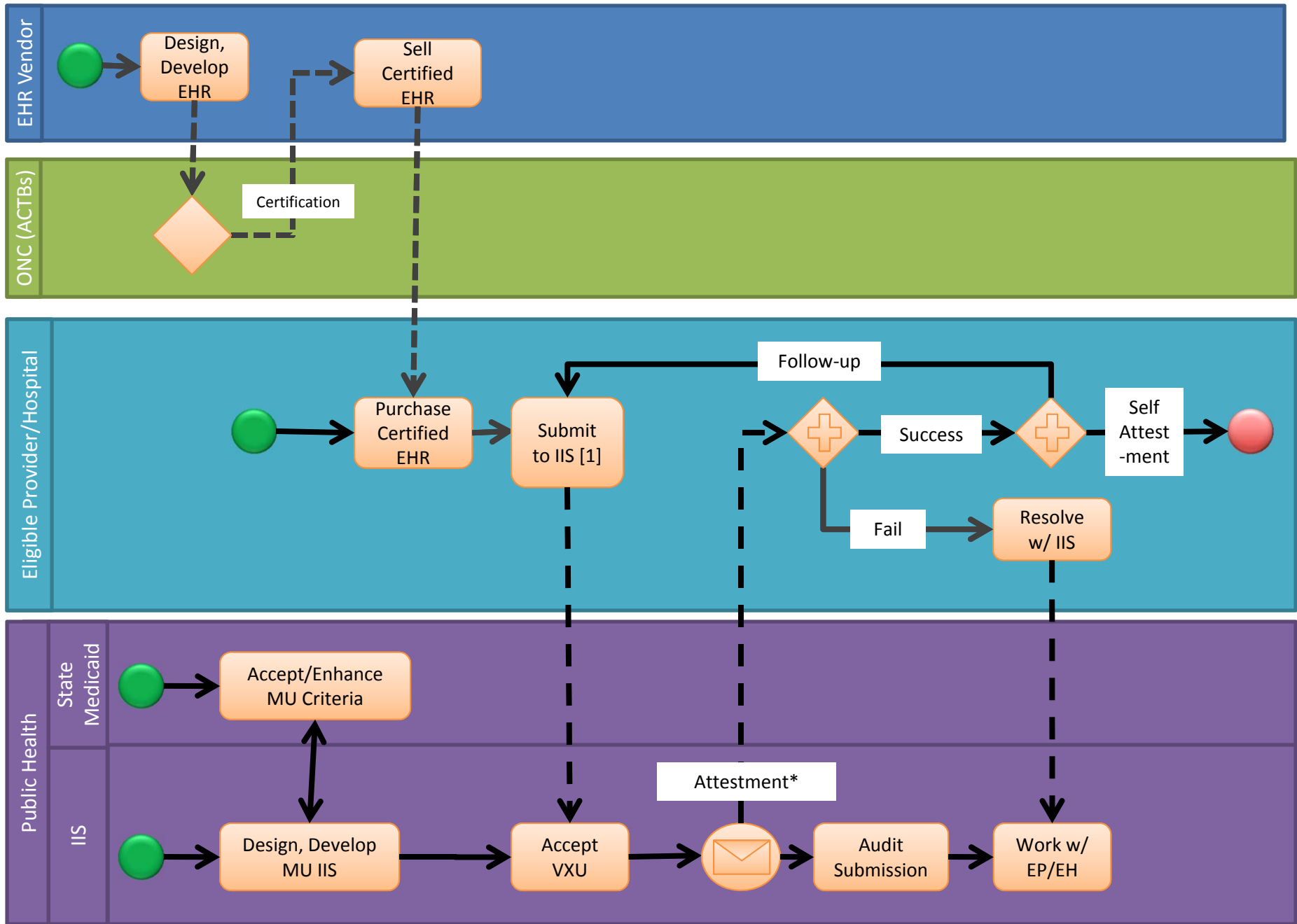
MSH|^~\&|EHR Application|EHR Facility|PH Application|PH Facility|||VXU^V04^VXU_V04|NIST-101215100919932|P|2.3.1

PID|||9817566735^^^MPI&2.16.840.1.113883.19.3.2.1&ISO^MR||Johnson^Philip||20070526|M||2106-3^White^HL70005|3345 Elm Street^^Aurora^Colorado^80011^^M|^PRN^^^303^5548889|||||||N^Not Hispanic or Latino^HL70189

RXA|0|1|201004051600|201004051600|33^Pneumococcal Polysaccharide^HL70292|0.5|ml^milliliter^ISO+||||||1039A||MSD^Merck^HL70227||||A

Summary of Changes:

- MSH-4 Sending Facility
- MSH-6 Receiving Facility
- RXA-5 Coding System needs to be 'CVX' vs. 'HL70292'
- PID-11 Address requires 2 letter state designation
- PID-22 Ethnic group we (KS) still require 2.3.1 definitions



[1] EP/EH performs immunizations and there's a registry to receive the information electronically.

Links

- **Final Rule:** edocket.access.gpo.gov/2010/pdf/2010-17207.pdf
- **Meaningful Use Wordle:** <http://www.tedeytan.com/wp-content/uploads/2010/08/LygeiaWordle.jpg>
- **HIT Initial Set of Standards:** edocket.access.gpo.gov/2010/pdf/2010-17207.pdf
- **NIST MU tester:** xreg2.nist.gov:8080/HL7V2MuValidation2011/
- **NIST MU use cases:** - xw2k.nist.gov/healthcare/use_testing/finalized_requirements.html
- **ONC:** healthit.hhs.gov/portal/server.pt/community/healthit_hhs_gov__home/1204
- **List of certified EHR products:** onc-chpl.force.com/ehrcert
- **CDC IIS MU:** cdc.gov/osels/phitpo/mu/immunization.html
- **CDC IIS standards:** cdc.gov/vaccines/programs/iis/stds/standards.htm
- **NIST test VXU_V04 messages:** xreg2.nist.gov:8080/HL7V2MuValidation2011/#documentation.htm
- **HITECH 101:** www.everythinghitech.com/everything-hitech/hitech-101-program-overview.html
- **EHR Incentive spec sheets:** <https://www.cms.gov/EHRIncentivePrograms/Downloads/EP-MU-TOC-Core-and-MenuSet-Objectives.pdf>