

From EHR Immunization Requirements to a Validation and Recognition Program

National Adult and Influenza Immunization Summit

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Today's Speaker:

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IMPROVING THE RATE OF IMMUNIZATION FOR VACCINE- PREVENTABLE DISEASE

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Improving the Rate of Immunization for Vaccine-Preventable Disease – IIS Activities



- Interventions for vaccine-preventable diseases
- Central source for immunization information
- Support Providers:
 - Data Exchange
 - Clinical Decision Support at Point of Care
 - Ensure timely immunizations, consolidation of records, efficient workflows
 - VFC (Vaccine for Children)
 - VTrcKS (Vaccine Tracking System)
 - AFIX (Assessment, Feedback, Incentives, and eXchange)

Challenges

- Data Quality
- On-Boarding – Each vendor is different, each implementation is different
- Adult immunization data originates in multiple places

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Improving the Rate of Immunization for Vaccine-Preventable Disease – Adult Vaccines



- **Additional Challenges for Adult Vaccinations***
 - Cost of vaccination services
 - Inadequate / inconsistent payment for vaccines and administration
 - Acute medical care takes precedence over vaccination
 - Primary care offices do not stock all adult vaccines
 - Adults receive vaccinations at pharmacies and other retail settings and workplaces (convenience – hours and locations)
- **Immunization “apps” for adult vaccination – Immunization Action Coalition:**

<http://www.immunize.org/resources/apps.asp>

* Bridges CB, Hurley LP, Williams W. *et. al.* Meeting the challenges of immunizing adults, *Am J Prev Med.* 2015; 49(6S4):S455-S464. Available at: http://vaccinesafetyresource.elsevier.com/sites/default/files/Bridges-Meeting_0.pdf.

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Global Immunization Management Requires a Three-Part Comprehensive Approach



Enhance Electronic Health Record (EHR) and other clinical software capabilities to improve data quality, clinical efficiency and usability, and patient access, thereby enhancing immunization rates.



Improve the immunization transmission standard to enhance data sharing. Improve implementation guides iteratively with HL7 balloting.



Support and standardize immunization registries to improve timely immunizations, consolidation of information and enhance efficiency.

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Standards and EHR Certification Today



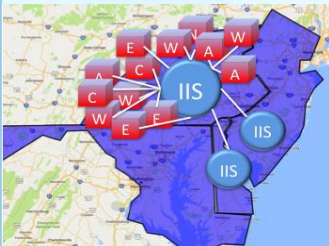
ONC Certification 2012 (Unidirectional)

ONC Certification 2014 Edition (Bidirectional)

- Addresses interoperability (data sharing) content only
 - not workflow or usability
- Focuses ONLY on EHRs
- Overlooks Data quality issues persist
- Amplifies on-boarding requirements – individual effort with each site to address local workflow resulting in large backlogs
- Allows EHR vendors to identify inconsistencies among IIS'

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Standards and EHR Certification Moving Forward



Each IIS must assure national Implementation Guide conformance and additional local requirements for each EHR site, and also create agreements to work with IIS' in nearby jurisdictions.

- Each site with any given EHR, Pharmacy or Retail Clinic application is different
- Many vendor products

- Red boxes – individual implementation sites, letters represent vendor products
- Blue circles – IIS'

Conformance with transmission (interoperability) standards is not sufficient.

The IIP program is complementary to IISB efforts to improve IIS interoperability (blue circles), addressing **data quality** and **onboarding** issues by focusing on the EHR and other clinical software (blue circles):

- Usability
- Clinical workflow
- Local jurisdictional variations (“optional” elements in the standard)
- Clinical Decision Support
- Documentation

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Global Immunization Management Requires Usable, Clinical Software Addressing Local Workflow



IIP Complements ONC CEHRT program by recognizing EHRs and Other Clinical Software:

- Improve Data Quality, Usability, Local Workflow
- Improve Data Sharability
- Enable Comprehensive Immunization Management

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EHR RECOGNITION PROCESS PILOT OVERVIEW

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EHR Recognition Process Pilot

- **Phases 1 & 2: 2013-2015**
 - Immunization-Related Capabilities for Clinical Software
 - Immunization-Centric Guidance
 - Immunization-Related Software Tests
- **Phase 3: 2016 –**
 - Implementation of Phase 2 efforts working with the Healthcare Information and Management Systems Society (HIMSS) and International Computer Security Association Laboratories (ICSA Labs)

Published by HIMSS –
<http://www.himssinnovationcenter.org/immunization-integration-program>

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FOCUS ON PHASE IV – HIMSS IMMUNIZATION INTEGRATION PROGRAM (IIP)

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Focus on Phase IV: What are we doing?

- Publish Immunization-Related Capabilities, Guidance, and Test Scripts
- Raise awareness of the importance of integrating immunization-related capabilities into health IT
- Engage software developers in using these tools to assess compliance of their health IT
- Implement an independent process for validating immunization-related capabilities within health IT
- Gain input from users on their implementation experiences

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Achieve Recognition!

Test Immunization-Capable Products

- Testing covers workflows focused on real-life scenarios, which clinicians and other stakeholders developed using specific immunization-related capabilities tested and available for review.
 - Workflow 1: Register and Identify a Patient
 - Workflow 2: Manage External Query, Response, and Reconciliation
 - Workflow 3: Manage Information For Clinical Decision
 - Workflow 4: Manage Inventory
 - Workflow 5: Administer and Report Immunization
 - Workflow 6: Manage Cohort of Patients
 - Workflow 7: Manage Adverse Event Reporting
 - Workflow 8: Provide Patient Access
- **Apply today:**
<https://surveys.himss.org/checkbox/Survey.aspx?s=d9896ac0349d4312bed9b7a0a49fc408>



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IIP Technical Advisory Panel Members

Public Health Perspective:

- Eric Larson – Senior Technical Project Manager, American Immunization Registry Association (AIRA)
- Jenne McKibben, Director, Alert IIS, Oregon Immunization Program
- Beth English, Associate Director, Immunization Program, Massachusetts Department of Public Health

Healthcare Provider Organization and/or Medical Group

- Donna Mazyck, RN – Executive Director, National Association of School Nurses
- Stuart Weinberg, MD – Associate Professor, Department of Biomedical Informatics, Vanderbilt University Medical Center

EHR Vendor:

- Kristin Glaza – Strategist, Cerner
- Richard Loomis, MD – VP, CMO, Practice Fusion

Clinicians [including pediatricians, family physicians, internists, nurses, pharmacists]

- Susan Kressly, MD – Kressly Pediatrics
- Feliciano Yu, MD – St. Louis Children's Hospital
- Jennifer Russo, RN – Barnabas Health
- Shaun Grannis, MD, Interim Director, Center for Biomedical Informatics, Regenstrief Institute, Inc.

Retail Clinics

- Brandy Altstadter – Scientific Technologies Corporation

Consumers

- Donald Hackett – Precision Vaccines (consumer vaccine registry)

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Standards and EHR Recognition



Data Quality Benefits for IIS:

- Addresses usability & clinical workflow efficiencies
- Improves likelihood of accurate, complete data entry consistent with most jurisdictional requirements
- Reduces local inconsistencies in EHR sites
- Increases collaboration and understanding of clinician and public health perspectives
- Encourages measured improvement over time based on feedback and transparency

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Standards and EHR Recognition



Benefits for EHRs:

Development and implementation of software addressing clinician end-to-end workflow, increasing efficiency to provide immunizations and related information to patients and caregivers

- Reduces burden associated with reporting on immunization-related performance measures
- Improves vaccine tracking to help manage costs and inventory
- Reduces burden associated with transmitting data to local immunization registries
- Demonstrates product focus on achieving outcomes for both clinicians/providers and patients addressing both preventive and population health

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Standards and EHR Recognition



Examples of items addressed due to collaboration:

- Determining eligibility for guarantee programs
- Valuing the “Responsible Party” field in patient demographics
- Coordination of immunization inventory data
- Managing patient potential adverse reactions to immunization

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Recognition Testing Process

- Apply for testing
- Receive access to IIP test tool and all prep materials
- Conduct practice tests
- Schedule official recognition test
- Successfully complete all required testing
- Test results submitted to HIMSS for recognition
- Product recognized in related IIP materials, on the HIMSS website, and through media and social outreach
- Focus – Help EHRs succeed (allow retesting, ‘appeal process’)



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Current Outreach and Participation

Outreach Activities

- HIMSS Website Banner
- HIMSS Innovation Center Banner (2250 visitors January through February 2017)
- HIMSS Interoperability Showcase Presentation and 3 additional discussion periods – 57 attendees

Vendor Participation

- Expressing Interest.....6
- Applied to Test.....7
 - Tested.....4*
- Successfully Achieving Recognition.....0 to date

* Pending review by Technical Advisory Panel

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Thank you!

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