

EHR Immunization Recognition – Off to the Races

AIRA 2018 – Salt Lake City, Utah

Session 6D, Wednesday, August 15, 2018

2:30-3:45 PM

Today's Speakers:

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Technical Advisory Panel

Learning Objectives

- ❑ Understand software capabilities developed under the Program that are expected to improve immunization-related clinical workflow and decision-making and enhance information sharing between clinicians and IIS; along with the processes used to assure broad input from key stakeholders on their development.
- ❑ Gain insights on stakeholder perceptions regarding the value and benefits of the Program; and strategies used to drive participation among commercial EHR developers and vendors so that such capabilities can be made available to practicing clinicians and strategies the Program is implementing to gain input and address common challenges experienced by EHRs and IISs at the jurisdiction and national levels.
- ❑ Understand the critical success factors that led the Program to transition from concept to a fully operational, independent Program with participation among commercial software developers and vendors.
- ❑ Learn how the Program can serve as a model for driving widespread adoption of interventions that can not only improve immunization rates, but also address other public health priorities.

HIMSS IMMUNIZATION INTEGRATION PROGRAM - BACKGROUND

Health IT's Role in Improving Immunization Rates

The evidence shows that the **following interventions improve immunization rates**¹

- Standing orders, reminders and feedback for providers (clinical decision support)
- Immunization information systems (IIS or registries)
- Reminders to individuals



EHRs

- now adopted by about 90% of hospitals and physician offices
- can play a key role in supporting these interventions

Improvements in immunization information systems (i.e., registries) have been slowed by diversity of registries in states; barriers to interstate data sharing; and incomplete records, particularly for adult vaccinations.²



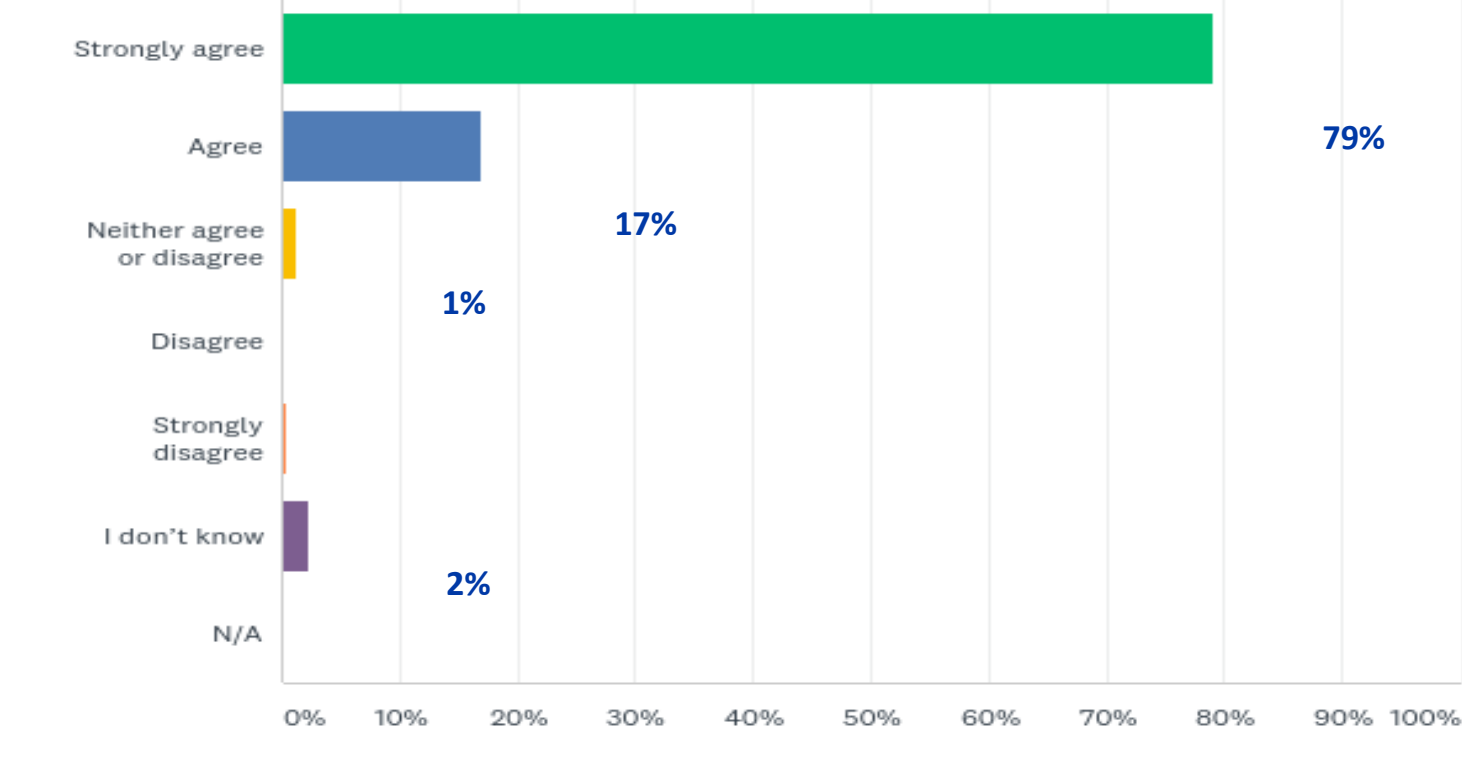
CDC focus:

- increasing IIS interoperability with EHRs
- expanding physician use
- developing clinical decision support tools
- improving efficiency and accuracy of data entry.²

¹ Centers for Disease Control Prevention. *Reminder Systems and Strategies for Increasing Adult Vaccination Rates*. <https://www.cdc.gov/vaccines/hcp/adults/for-practice/reminder-sys.html>

² Schuchat A, Anderson LJ, Rodewald LE, Cox NJ, Hajjeh R, Pallansch MA, et al. Progress in Vaccine-Preventable and Respiratory Infectious Diseases—First 10 Years of the CDC National Center for Immunization and Respiratory Diseases, 2006–2015. *Emerg Infect Dis*. 2018;24(7):1178–1187. <https://dx.doi.org/10.3201/eid2407.171699>

General Perceptions of Value



Survey Question (2017). Having immunization-related capabilities within EHRs or other clinical software will provide value. (n=532)

2018 Data also confirms perception of high value

Moving Forward: Aligning Standards, Certification and HIMSS Immunization Integration Program Recognition



Immunization Integration Program (IIP) **complements** ONC Certification 2015 Edition (Bidirectional) **to improve:**

- **Data Quality** (through usability, workflow, local decision support)
- **Standardization** expanding required element testing to include most common jurisdictional additional data elements (“optional” in the standards).

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 Health Information Management Systems Society (HIMSS) and International Computer Security Association (ICSA)

❑ Phase 4: 2017-2018

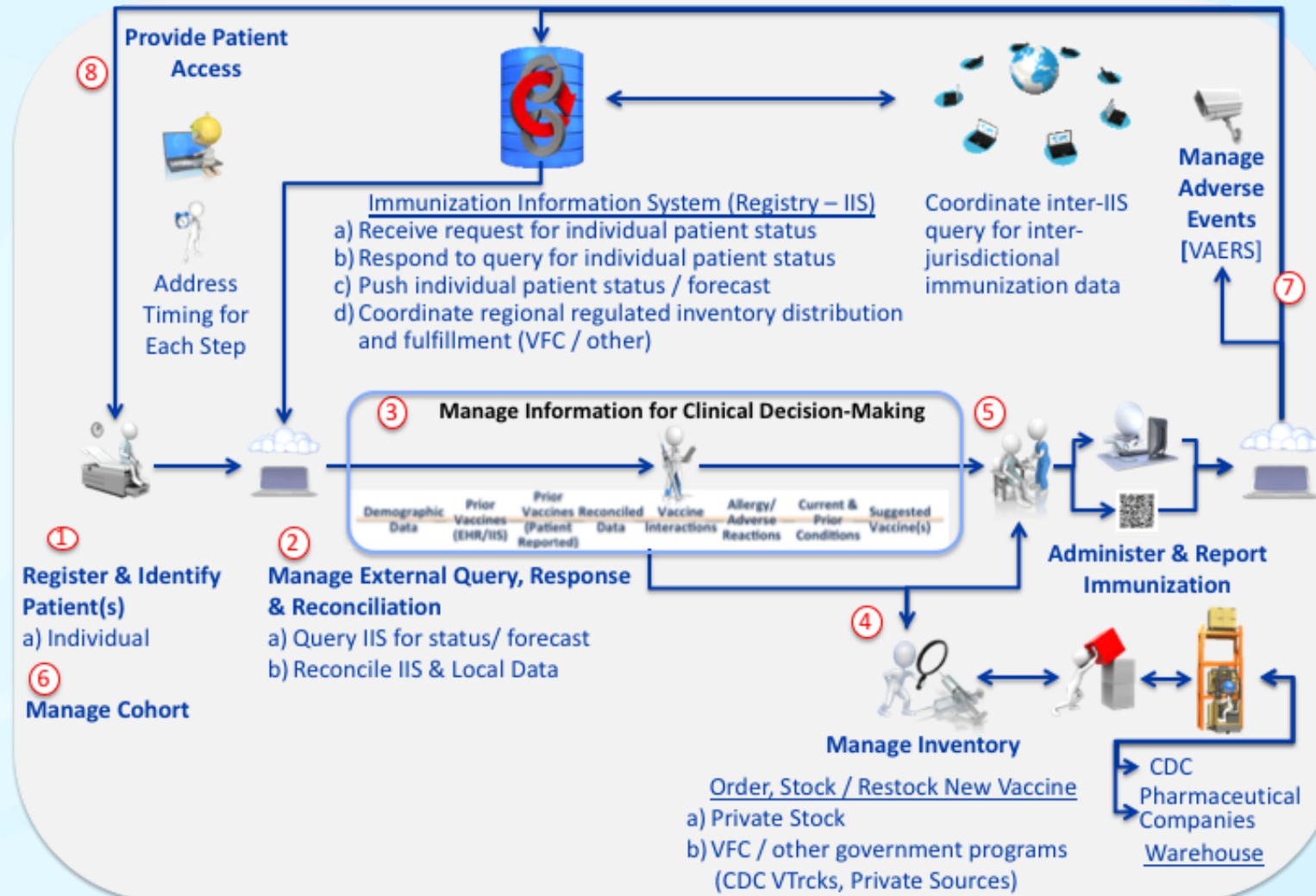
- Inaugural Year for EHR and Other Clinical Software Recognition in HIMSS Immunization Integration Program (IIP)
- Transition to The Drummond Group for Software Testing
- ONC Designation as Alternate Testing Program for Immunization Interoperability
- 3 Vendors Achieve Recognition

HIMSS Immunization Integration Program 2018

- Refresh and Publish Immunization-Related Capabilities, Guidance, and Test Scripts
- Enhance awareness of the importance of integrating immunization-related capabilities into health IT
- Engage more 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



Aligning Software Capabilities with General Clinical Workflows



Areas for Improved Collaboration Among IIS', EHR Vendors and Implementers

- ❑ Discussion Topics for HIMSS Immunization Integration Program (IIP) Technical Advisory Panel – July 2018
 - Managing non-potent vaccines
 - Determining active Vs inactive patients in EHRs
 - Managing immunization message acknowledgements (ACK)
 - Maintaining current terminology (code set) content
 - Managing mass immunization events
 - Comprehensiveness of HIMSS IIP outreach
- ❑ HIMSS IIP Interactions with AIRA
 - Coordination through CDC NCIRD
 - HL7 Meetings
 - AIRA Standards and Interoperability Steering Committee (SISC)
 - AIRA membership on HIMSS IIP Technical Advisory Panel

HIMSS IMMUNIZATION INTEGRATION PROGRAM OVERVIEW

What value does HIMSS bring to this Program?

Vision

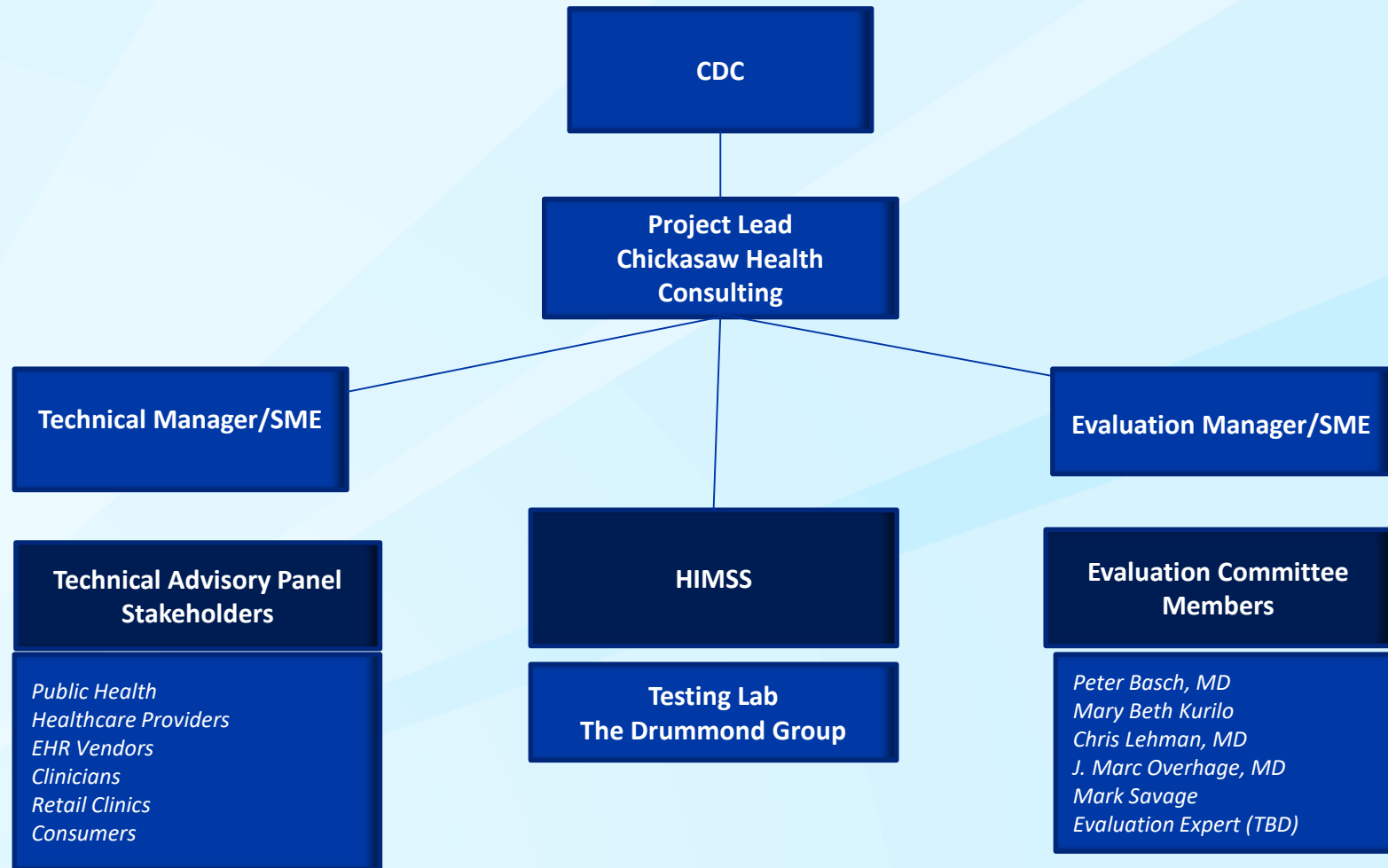
- Better health through information and technology.

Mission

- Globally, lead endeavors optimizing health engagements and care outcomes through information and technology.

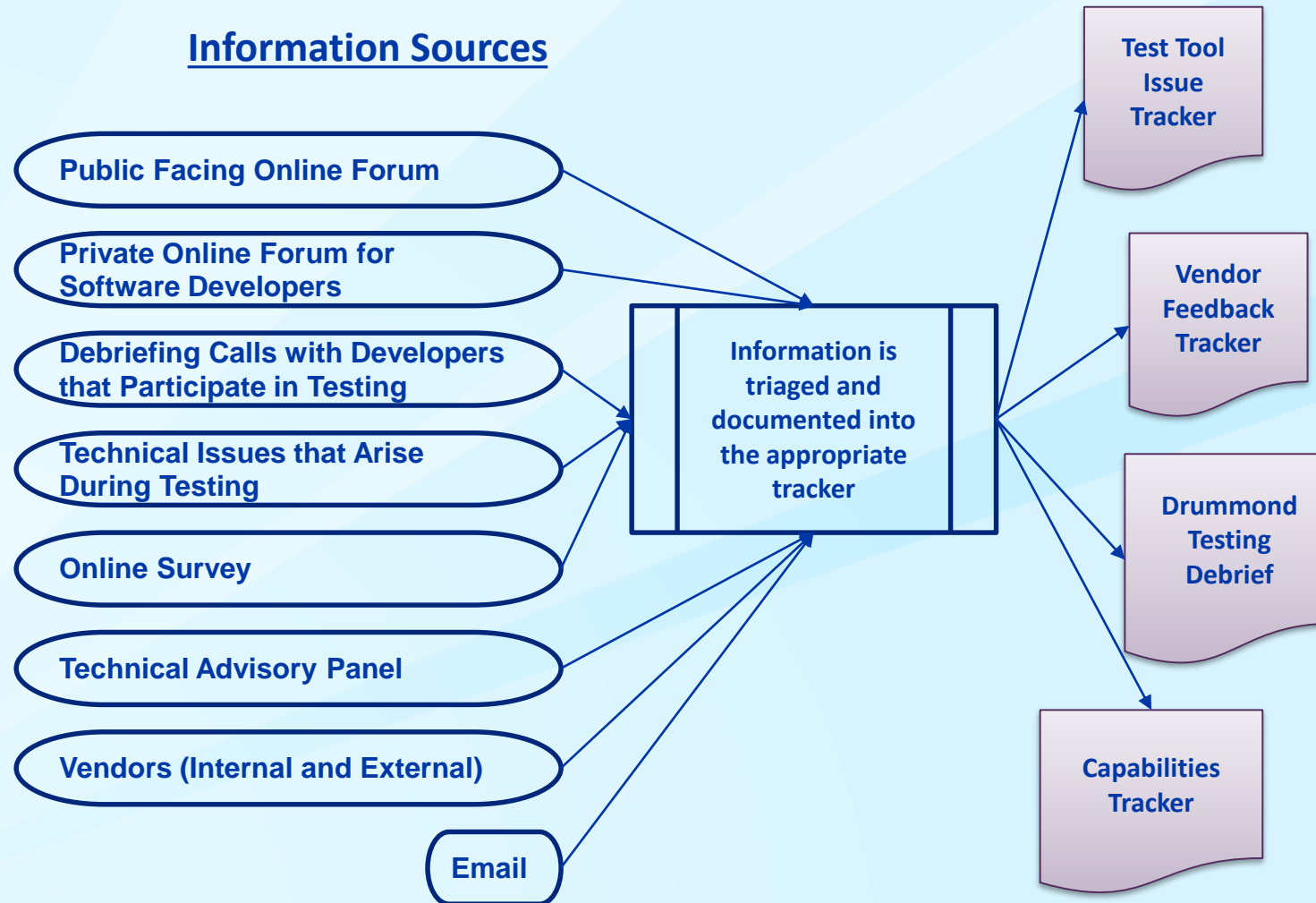
- HIMSS is a **global advisor** and **thought leader** supporting the **transformation of health** through the application of information and technology.
- As a mission driven non-profit, HIMSS provides thought leadership, **community building**, public policy, professional/ workforce development and engaging events to bring forward the voice of our members.
- Thousands of volunteers work through HIMSS to leverage the **innovation of digital health** to **improve** both the **health of individuals and populations**, as well as the **quality, cost-effectiveness and access of healthcare**.

HIMSS IIP - Coordination



HIMSS IIP Update Process

Information Sources



HIMSS IIP Recognized Organizations' Products

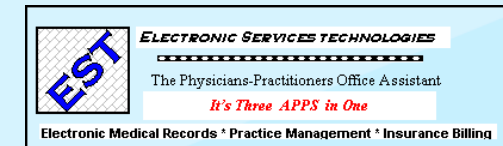
- **Cerner Corporation**

- Cerner FirstNet and PowerChart



- **Electronic Services Technologies**

- The Physicians – Practitioners Office Assistant



- **Glenwood Systems**

- GlaceEMR



- **HealthCareXchange, LLC**

- TheVaccinator



- **Qvera**

- Qvera Interface Engine



Why is the HIMSS IIP Important?

BENEFITS



Data Quality

- Improves data accuracy and completeness
- Increases collaboration and understanding of clinician and public health perspectives
- Encourages measured improvement over time based on feedback and transparency
- Addresses 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
- Demonstrates product focus on achieving outcomes for clinicians/providers and patients addressing both preventive and population health
- Improves immunization workflows and data quality for interoperability
- Coordinates with ONC certification as an Alternative Testing Method for Transition to Immunization Criterion for 2015 Edition Health IT Certification.
- Uses open source testing tool developed with/by NIST.

For Providers

For Vendors

HIMSS IMMUNIZATION INTEGRATION PROGRAM – VENDOR PERSPECTIVE

From a Recognized Vendor – Why Participate?

- ❑ **HIMSS IIP holds the promise of near-real-time data exchange on patient immunizations**
 - Simple, reliable access to vaccine information closes gaps in care.
- ❑ **Rigorous testing can improve timely access to immunization data**
 - IIP was an ideal opportunity to test our workflows and registry interoperability against complex, real-life scenarios
 - IIP turns multiple sources of immunization data into actionable information for clinical and personal use.
- ❑ **HIMSS IIP testing helped us identify ways to improve our end product.**
 - Changes to our products will benefit providers, and ultimately patients.
- ❑ **We were inspired to change our approaches to connectivity, which will**
 - Advance our promise of ubiquitous interoperability
 - Improve clinician experience in our workflows.
 - Identify software gaps that require enhancements to software to manage multiple, in-depth test cases.

From a Recognized Vendor – Why Participate? (continued)

- ❑ **As more and more suppliers can complete the rigorous criteria of HIMSS IIP, we anticipate:**
 - Improved provider experiences,
 - More complete immunization records and,
 - Improved population health.

Testing Process Recommendations from a Recognized Vendor

Preparation Requirements

- ❑ **Make sure you have a dedicated and stable testing environment that you can work out of for a couple of months.**
 - The IIP is not a one-day test where you walk away with your recognition seal. It's a thoughtful process that takes time.
- ❑ **Have the right people involved to cover clinical workflow, interfaces and regulatory.**
- ❑ **Make time with the appropriate resources in your organization to prepare and run through test cases internally several times.**
- ❑ **Anticipate that you're going to identify areas for improvement.**

THANK YOU!

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