

Expanding Modular EHR Testing to Advance Interoperability

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Meet Our Speakers



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Session Objectives

- Understand community needs and gather input about what immunization-related capabilities are important to include in EHR testing
- Collect input from immunization data exchange partners on what functionality would be impactful to:
 - 1) validate to support successful data exchange, and
 - 2) promote adoption of standards and best practices
- Foster sharing of data exchange experiences and challenges to inform key requirements related to proposed IIP modules

Immunization Integration Program (IIP)

Goals & Partners



Advance immunization capabilities in health IT products to improve data quality from the point of vaccination to data submission to public health



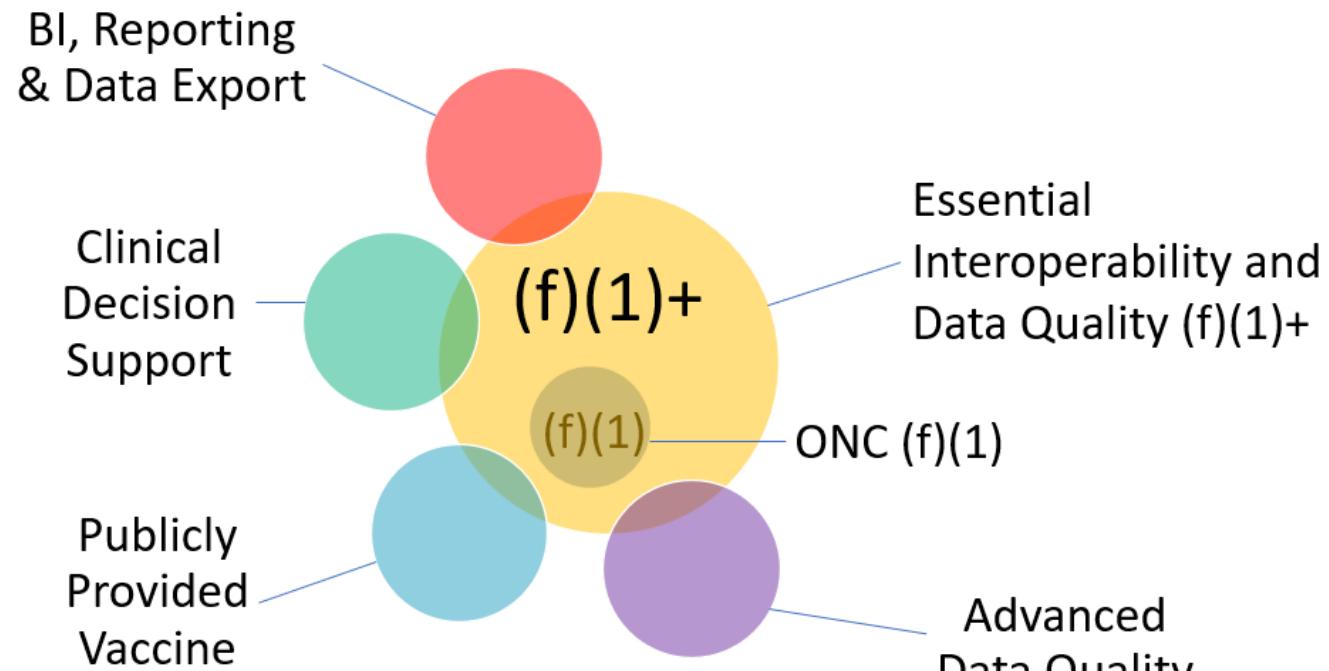
Improve interoperability between IIS and health IT products



Funded by the CDC in partnership with the American Immunization Registry Association (AIRA), HIMSS, and Drummond Group

IIP Test Plan

- Alternative test method for (f)(1) Transmission to immunization registries
- Recently converted to a modular format
- Essential Interoperability and Data Quality (aka "(f)(1)+") developed
- (f)(1)+ pilot test complete
- Developing Advanced Data Quality module



Advanced Data Quality Module

User Story 1: Validate Key Demographic Segments Before Submission: Before finalizing a record, the EHR should notify end users if required demographic fields such as patient information (PID), consent (PD1), or next of kin (NK1 for minors) are missing or invalid.

- These checks should occur during the registration process before finalizing the record and not disrupt clinical workflows. End users should be allowed to override alerts with a reason, and validations should not block submission.

User Story 2: Ensure Accuracy of Vaccine Data Before Submission: Before finalization, the EHR should validate all vaccine-related segments (RXA, RXR, OBX), with appropriate consideration given to administered vs. historical entries. Key checks include:

- Accurate Code Mapping: Ensure valid NDC-to-CVX mapping and alert users if selected vaccine products contain codes that are expired or discontinued.
- VFC Eligibility: Flag missing VFC codes and consider making them required with visibility into the patient's insurance to support accurate selection. Consider prioritizing eligibility options based on the patient's insurance type by listing the most relevant options first and others later.
- Funding Mismatches: Alert users when selected vaccine funding doesn't align with VFC eligibility.
- To maintain data integrity without disrupting clinical workflows, vendors should configure key fields as required and set up alerts to trigger only at the point of finalizing the record.
- This approach ensures important data is captured while respecting the pace and flexibility needed in clinical environments. End users should be allowed to override with a reason, and validations should not block submission.

Advanced Data Quality Module

User Story 3: Support Easy Correction of IIS Rejections:

The EHR should alert users to invalid or missing values in demographic and vaccine-related fields before submission and suggest corrections or provide clear, actionable error messages.

- Vendors should strike a balance by requiring key fields and issuing finalization alerts that support data quality, while allowing justified overrides to maintain workflow efficiency.
- Alerts may be built into required fields or backend configurations to ensure completeness.
- Prompts should occur at the end of documentation, giving users the opportunity to correct or explain issues without blocking finalization.

Small Group Discussion Questions

- 1. Functionality for Data Exchange:** What specific functionalities should be validated to support successful data exchange between providers, public health agencies, and other partners?
- 2. Standards & Best Practices Adoption:** Thinking about past challenges with providers adopting best practices for data quality standards, how could EHR functionality be improved to better support compliance?
- 3. Data Exchange Experiences & Challenges:** Reflecting on a recent data quality challenge, what lessons did you learn that could help shape future system requirements?
- 4. IIP Module Requirements:** Based on your experience, what key features or capabilities should be prioritized in the proposed IIP Advanced Data Quality module to improve data accuracy, timeliness, and overall usability?

Please scan the QR code to share your responses.





Stay Engaged!

Immunization Integration Program (IIP)

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