



Validated in Five:

Leveraging AART & Training to Achieve IIS Validation



The IIS of the Past, Present, and Future



**Connected
Intelligence**



**Predictive
Insights**



**Improved
Outcomes**

01
Background

02
Baseline Validation

03
Areas of Improvement

04
Training Methodology

05
Case Example

06
Outcomes & Results

Background: Why AART Validation Matters

The AIRA M&I Initiative

- Launched in 2015 to drive sustainable IIS progress toward functional standards
- AART: application by AIRA to visualize validation across community-selected measures
- Provides actionable improvement guidance alongside assessment results
- Contribution to community alignment progress and enhanced overall IIS credibility

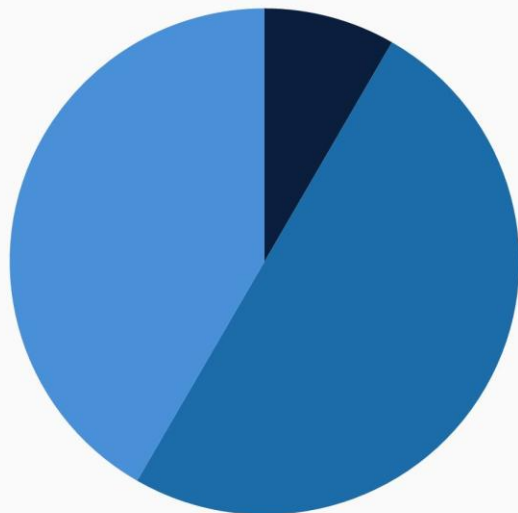
The Five AART Content Areas (for Validation)

- 01 Transport
- 02 Submission & Acknowledgment
- 03 Query & Response
- 04 Data Quality Incoming/Ongoing
- 05 Clinical Decision Support

Baseline Validation State — 2024 (Before)

At the start of the project, most jurisdictions were validated in 2-3 AART content areas.

Distribution by Validated Content Areas — 2024 Baseline



■ 1 Content Area ■ 2 Content Areas ■ 3 Content Areas

8%

Validated in 2 Content Areas

50%

Validated in 2 Content Areas

42%

Validated in 3 Content Areas

Change Management Framework

Assess & Prepare

Implement

Monitor

Plan & Develop

Validate

Key Areas of Improvement



Data Quality

- Invalid Dates
- Include lot expiration date
- Partially Administered Doses



Sub & Ack

- Document Jurisdictional Rules
- Minimally populated messages
- NDC only processing



Clinical Decision Support

- Addition of Evaluation Status
- Continual STC Forecaster updates
- Review new AIRA technical advisory Bulletins (TABs) for updates

Vendor Validation

STC

Product Validation Summary



Transport Validation

Complete Validation - 2026

[Download Validation Certificate](#)

Your system passes **3 of 3** measures with all requirements



Submission and Acknowledgment Validation

Complete Validation - 2026

[Download Validation Certificate](#)

Your system passes **16 of 16** measures with all requirements



Query and Response Validation

Complete Validation - 2026

[Download Validation Certificate](#)

Your system passes **7 of 7** measures with all requirements



Data Quality Incoming/Ongoing Validation

Complete Validation - 2026

[Download Validation Certificate](#)

Your system passes **27 of 27** measures with all requirements



Clinical Decision Support Validation

Complete Validation - 2026

[Download Validation Certificate](#)

Your system passes **12 of 12** measures with all requirements



Training Materials & Resources



**AART Issue
Resolution Guide**



**Individualized
Jurisdiction
Assessments**



**Internal Slide
Decks**



**Multi-Channel
Communications**



Live Demos



Project Tracker

Common Recommendations

Content Area	Measure	Configuration	Recommendation
Query & Response	3: IIS responds to a query for a known patient	Assigning Authority	Set Assigning Authority 3-digit code in Test
Data Quality	17.2.1: Invalid contraindication date	OBX-14 Contraindication Obs. Date	Set to Warn or Error — invalid date triggers ERR in ACK
Data Quality	26.1.1: Expired vaccination event	RXA-3 Vaccination Date	Return Warning that dose date is after lot expiration
Data Quality	19.1.1: Message contains missing vaccination event record type	RXA-9 Vaccination information Source	Set to Warn or Error – missing event record type triggers ERR in ACK
Data Quality	21.4.1 Message will contain NDC and CVX Conflict	RXA-5 Vaccination Code	Set to Warn or Error – conflicts will trigger an ERR in ACK

Example Material

Data Quality Incoming and Ongoing

17	The IIS detects data quality issues with contraindications/precautions and contraindication/precaution observation date
17.3.1	Message will contain contraindications/precautions observation date in the future
17.4.1	Message will contain contraindications/precautions observation date before patient date of birth

Review

- Set the import profile to W or E for Contraindication Date is invalid and E for date is in the future and date is before patient's birthdate

Contraindication Observation Date - OBX-14		✓	⚠	✗
...is missing	(Default setting: Ignore)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
...is invalid	(Default setting: Ignore)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
...is in the future	(Default setting: Ignore)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
...is before the patient's date of birth	(Default setting: Ignore)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Jurisdictional Assessments

- Partnered with Jurisdictions to get View AART Access
- Created PDF with crosswalk recommendations
 - Listed AART measure failing
 - Listed configuration options in application
- Reviewed over Teams meeting

Example Crosswalk

- High level view of vendor used configurations
- Excel document with each issue resolution listed and if it relates to an AART measure
- Color coded by setting selection
 - Set to Warn is yellow
 - Set to Error is red

Issue Resolution	AART Standard Template	Ignore	Warn	Error	Notes	AART Content Area
Vaccination Lot Expiration Date - RXA-16						
	is missing		x			
	is invalid			x	AART validates that invalid codes are identified	Data Quality Incoming/Ongoing
Vaccination Manufacturer - RXA-17 - (Code Table: MVX)						
	is missing		x		AART validates that missing codes are identified	Data Quality Incoming/Ongoing
	is invalid		x		AART validates that invalid codes are identified	Data Quality Incoming/Ongoing
	is unrecognized		x			

Navigating Jurisdictional Policy

Key Principle: A jurisdictional deviation does NOT necessarily mean failure – it reflects a rules-based decision that may result in 'Deviates' or 'Does Not Meet' rather than 'Meets' in AART.

Measure 7: IIS processes vaccination refusals

Jurisdictional rules prohibit accepting vaccination refusals. Issue Resolution is set to Error, causing 'Does Not Meet' for Complete Validation.

Measure 10: HL7 2.5.1 minimally populated message acceptance

Patient Address, Race & Ethnicity, Route & Site required. These policies promote data completeness but deviate from minimally populated test messages. Complete with Minor Differences achievable.

Measure 15: NDC 11-digit processing without CVX

Most jurisdictions require CVX. A configuration change (CVX missing → Warn) allows NDC-only processing. Without the change, AART classifies the result as 'Deviates.' Complete with Minor Differences achievable.

Case Example: In-Person or Online Training Session

Training Session Flow

Review AART site — current assessment & validation results

Content area deep-dive: root cause, solution, next steps

Live walkthrough of STC|ONE Data Exchange module

Provide copies of Training Materials

Follow-up via email, 1:1 call, or consortium touch base

Deliverables Provided

- AART Crosswalk — Excel crosswalk with recommended configurations
- Jurisdiction Specific Assessment PDF
- Slide deck with content area breakdown and action items, if applicable
- Post-session follow-up summary with timelines
- Access to updated AART assessment after configurations applied

Validation State — 2025 (After)

At the end of the project, a majority of jurisdictions were validated in 4-5 of the AART content areas.

Distribution by Validated Content Areas — 2025 (After)



■ 5 Content Area ■ 4 Content Areas ■ 3 Content Areas

33%

Validated in
3 Areas

27%

Validated in
4 Areas

40%

Validated in
5 Areas

Key Takeaways



AART is a Practical Roadmap

AART provides not just scores but actionable guidance — an effective driver for IIS improvement when integrated into structured change management.



Multi-Channel Communication

Release notes, newsletters, consortium calls, and 1:1 sessions together drive awareness — repetition across channels increases visibility.



Continuous Monitoring

AIRA M&I standards evolve. Ongoing monitoring of AART results, TABs, and new content areas (Patient Matching, Data at Rest) is essential.



Individualization Accelerates Progress

Jurisdiction-specific assessments and configuration crosswalks significantly reduce the gap between national standards and local implementation.



Thank you

Email

rachel_rugeley@stchealth.com

Phone

+1 (480) 745-8500

Website

stchealth.com

Proprietary and Confidential