

Data at Rest Data Quality Assessment Report

Thursday, May 15, 2025

8:18 PM

Arizona State Immunization Information System

Evaluated Cohort

Patients born:

01/01/2023 - 12/31/2024

Assessment Date:

May 2025

ASIIS

Background:

In 2016, The American Immunization Registry Association (AIRA) convened the Measurement for Assessment and Certification Advisory Workgroup (MACAW) to develop and propose measures for IIS Assessment. The Data at Rest (DAR) content area within the Measurement and Improvement (M&I) Initiative focuses on the data residing in an IIS database.

The MACAW defined the scope, measures, tests, outcomes, and testing methods for measuring data quality of the data at rest within an IIS. This work was informed by the IIS Functional Standards, CDC's IIS Data Quality Blueprint, and IIS Data Quality Practices – To Monitor and Evaluate Data at Rest.

Purpose:

Data at Rest is the measurement of data that has been accepted into the ASIIS production environment. The Data at Rest Data Quality Assessment Report shows the data quality of patient-level and vaccine-level data elements of the data reported to ASIIS for a specific patient age group.

*This assessment report **DOES NOT** evaluate the data quality of HL7 messages, coverage reports or inventory management.*

Actions for providers:

The results from this assessment can be used to celebrate successes, or highlight possible process improvements and are **NOT** intended to encourage providers to make changes to the ASIIS data. These findings are **NOT** intended for retrospective review or for altering data from the time period evaluated in this report. Data elements marked as "FAIL" in the report below indicate potential data entry issues or opportunities for future process improvement that providers may want to address moving forward.

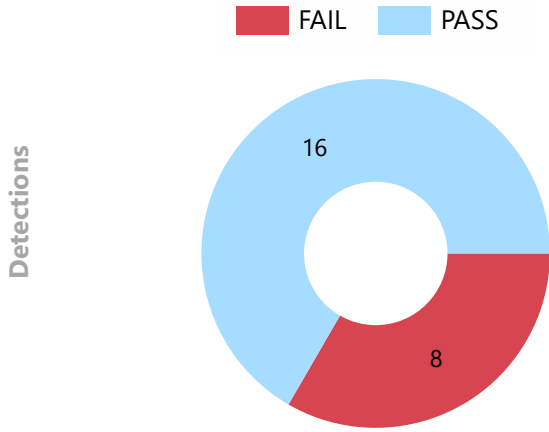
Definitions:

- **Completeness:** The degree to which full information about a data set, record, or individual data element is captured in ASIIS, i.e., the proportion of stored data measured against the potential of "100%".
- **Validity:** The degree to which the data conforms to the syntax (format, type, range) of its definitions, i.e., to the rules of what is accepted or expected by ASIIS.
- **Timeliness:** The time lag between the real-world event and its documentation in ASIIS, i.e., the interval between the date of vaccination or birth and the date the record is received by ASIIS. (Current measure: Administered vaccination events are entered into ASIIS within one clinical day from the administration date).
- **Completeness and Timeliness Evaluation Criteria: Percentage Greater Than Threshold:** When the assessed data element's percentage is less than the threshold, it will have a "FAIL" value and will be represented in the stacked bar chart on the right side of page 2 of the report. When the percentage is greater than the threshold, the value is "PASS" and it can be reviewed on page 3 of the report.
- **Validity Evaluation Criteria: Percentage Less Than Threshold:** When the assessed data element's percentage is higher than / above the threshold, it will have a "FAIL" value and will be represented in the stacked bar chart on the right side of the second page. When the percentage is less than the threshold, the value is "PASS" and it can be reviewed on page 3 of the report.

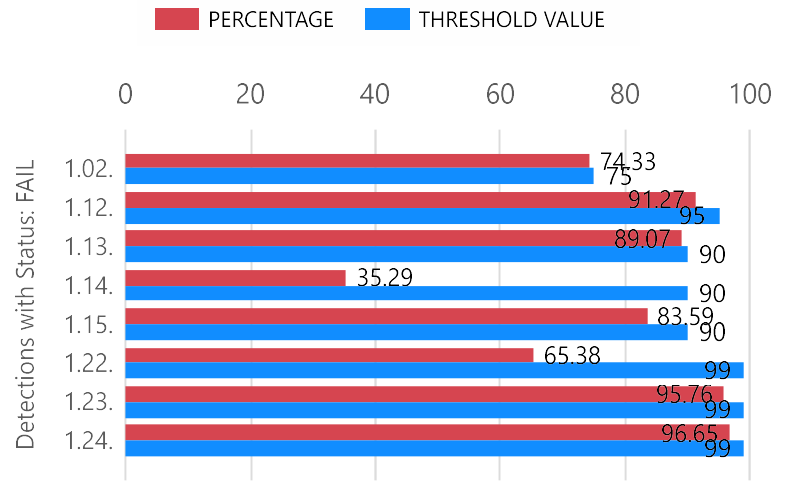
Data at Rest Data Quality Assessment Report

Evaluated 258070 patient record(s) and 1879162 vaccination record(s) in ASIIS.

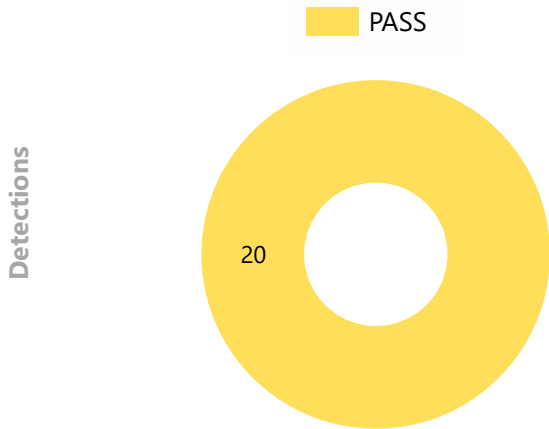
Completeness



Evaluation Criteria
Percentage Greater Than Threshold



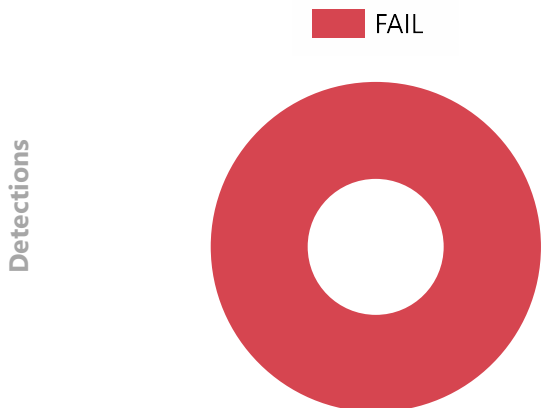
Validity



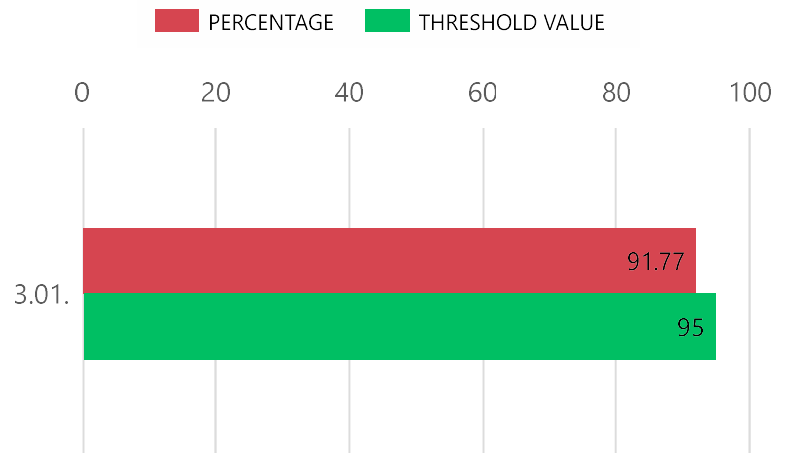
Evaluation Criteria
Percentage Less Than Threshold

No Data Available

Timeliness



3.01. Entered within one calendar day
Evaluation Criteria
Percentage Greater Than Threshold



Data at Rest Data Quality Assessment Report

Completeness

Validity

PERCENTAGE THRESHOLD VALUE

Evaluation Criteria
Percentage Greater Than Threshold

PERCENTAGE THRESHOLD VALUE

Evaluation Criteria
Percentage Less Than Threshold

