



AIRA

AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

Data at Rest

Brief Summary

Updated March 2025

What is Data at Rest (DAR)?

Via the [Measurement and Improvement Initiative \(M&I\)](#), AIRA, in partnership with CDC, collaborates with IIS to identify opportunities for improvement. DAR is the measurement of data residing in the IIS production database, regardless of how it arrived there. This M&I content area employs data quality indicators outlined in the May 2018 [IIS Data Quality Practices document](#) and CDC's [IIS Data Quality Blueprint](#).

The concepts measured in DAR are defined as:

Completeness: The degree to which information about a data set, record, or individual data element is captured in the IIS, (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 the IIS)

Timeliness: The amount of time between the occurrence of the real-world event and its documentation in the IIS (i.e., the time lag between the date of vaccination or birth and the date the record is fully processed and ready to use in the IIS).

Participation in M&I is voluntary but strongly encouraged for all IIS. Interested IIS can review more information [about DAR participation on AIRA's website](#).

Participation Benefits

- *M&I provides IIS an independent, objective testing process*
- *IIS will receive **usable** and **actionable** data reports that will:*
 - *Provide a tool to share their progress toward meeting standards with the broader community*
 - *Build confidence in IIS across other communities*
 - *Help IIS prioritize essential improvements and community-wide adoption of standards across programs*
 - *Help IIS understand and improve the quality of the data that is "resting" in their database*

How is IIS participation in DAR different from other M&I content areas?

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- DAR will require more involvement from IIS staff to be measured.
- It uses de-identified production data instead of a preproduction environment.
- It may require a partner agreement between AIRA and the IIS.

Participating IIS staff will need to perform three activities to receive a DAR report:

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- **Review** the extract specification and determine which data elements can be extracted.
- **Extract** data into a predefined file format.
- **Run** the AIRA-provided transformation tool and upload the resulting file into [AART](#).