



Immunization Information Systems

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Association

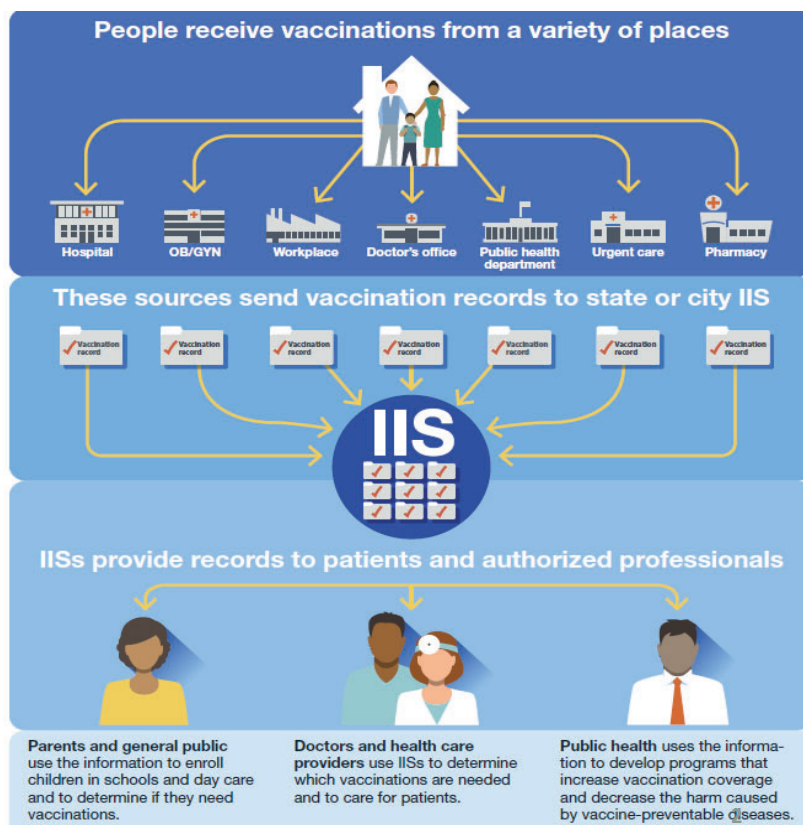
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What is an IIS?

IISs are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.



What do IISs do?

- **Consolidate immunization-related information**
- Track and evaluate **trends in coverage levels**
- Monitor **outbreaks and disease** levels
- Automatically **calculate vaccinations needed**
- **Generate vaccination reminder and recall notices**
- Assist providers in determining which vaccinations their patients need
- Alert providers when vaccines are due or missing






Primary IIS Data Sources

- Birth records
- Death records
- Medicaid and insurance billing/claims
- Direct data entry by providers
- Electronic medical records

IISs have various core capabilities and functionality to improve vaccination coverage.
(See [CDC IIS Functional Standards](#) and [IIS Functional Standards Version 4.0 Resource Guide](#).)



CDC Supports IIS by

-  Providing **funding and guidance to 64 jurisdictions** to achieve immunization priorities
-  Offering **direct support** to awardees through technical assistance, engagement, and communications
-  Engaging technical and national **partners** to strengthen the IIS community

CDC's Vision for IIS

IISs support the standardized capture and exchange of high-quality, individual-level immunization data for all doses of ACIP*-recommended vaccines.

These data are linked across jurisdictions, providers, and partners, and to other individual-level data sources to inform public health action.

Priority Areas

Data
Quality

Data
Exchange

Technology
Infrastructure

* ACIP: Advisory Committee on Immunization Practices

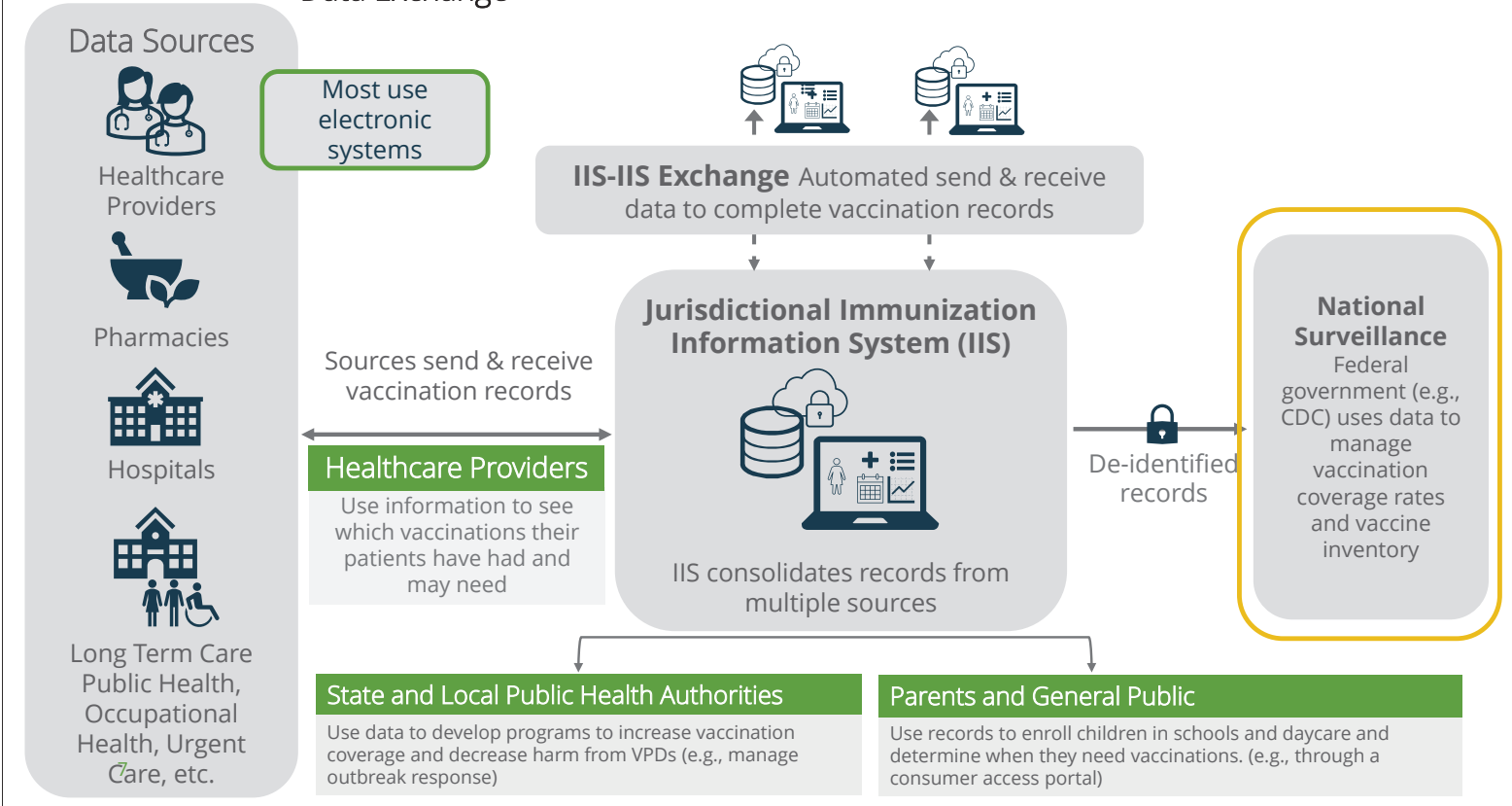


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IIS Data

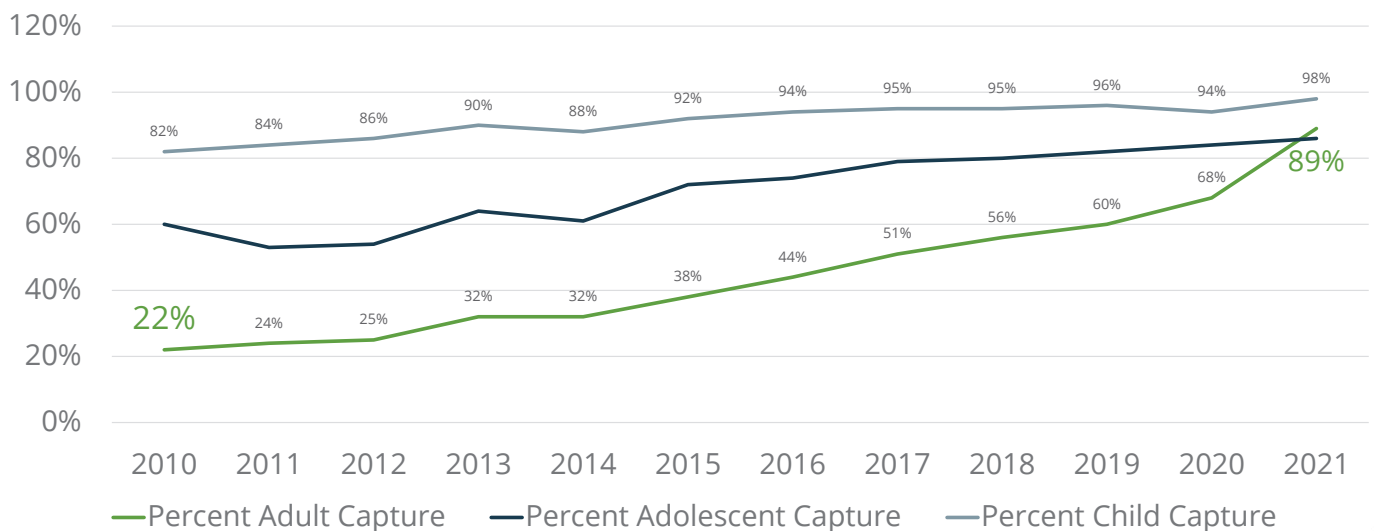
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Data Exchange



Trends in Capture, 2010-2020

Percentage of children, adolescents, adults represented in an IIS, 2010-2021



Policy and Budget

Current IIS Data Policy Landscape

Since 2020, **ten** jurisdictions made changes to consent policies and **17** changed reporting mandates.

Consent



- 14** jurisdictions do **not** allow guardians to opt out of their children's records reported to IIS.
- 12** do **not** allow adults to opt out.
- 43** include recipients under 18 unless guardian opts them out.
- 42** include adult recipients unless they opt out.

Reporting



- 20** jurisdictions **mandate reporting** by all providers and all vaccines to IIS.
- 16** mandate reporting for specific ages (e.g., under 18).
- 15** mandate reporting for specific provider types.

Sharing

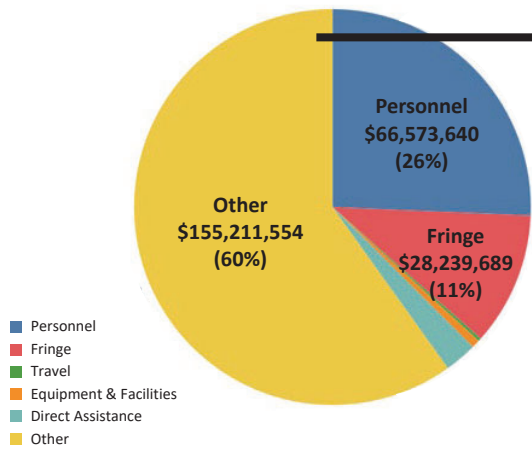


- Data sharing** policies vary more widely across jurisdictions and are still evolving.
- 21** Require a data use agreement of memorandum of understanding
- 15** Allow only for specific use(s) (e.g., disease surveillance)

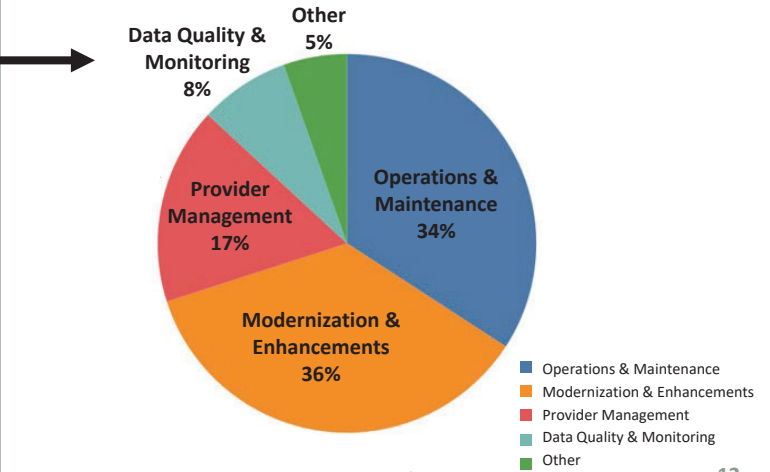
IIS Costs by Budget Category – Over All Awardees

Awardees allocate most of their IIS budget to contracts with their IIS platform vendor and to personnel that operate the IIS. Most funding goes toward “keeping the lights on.” COVID funding allowed awardees to report data to CDC and invest in data modernization enhancements.

Budget Year 4 IIS Costs: General
\$259,228,329



Budget Year 4 IIS Costs: Functions and Capabilities
\$170,386,122



Rounding may result in total slightly under/over 100%

Workforce

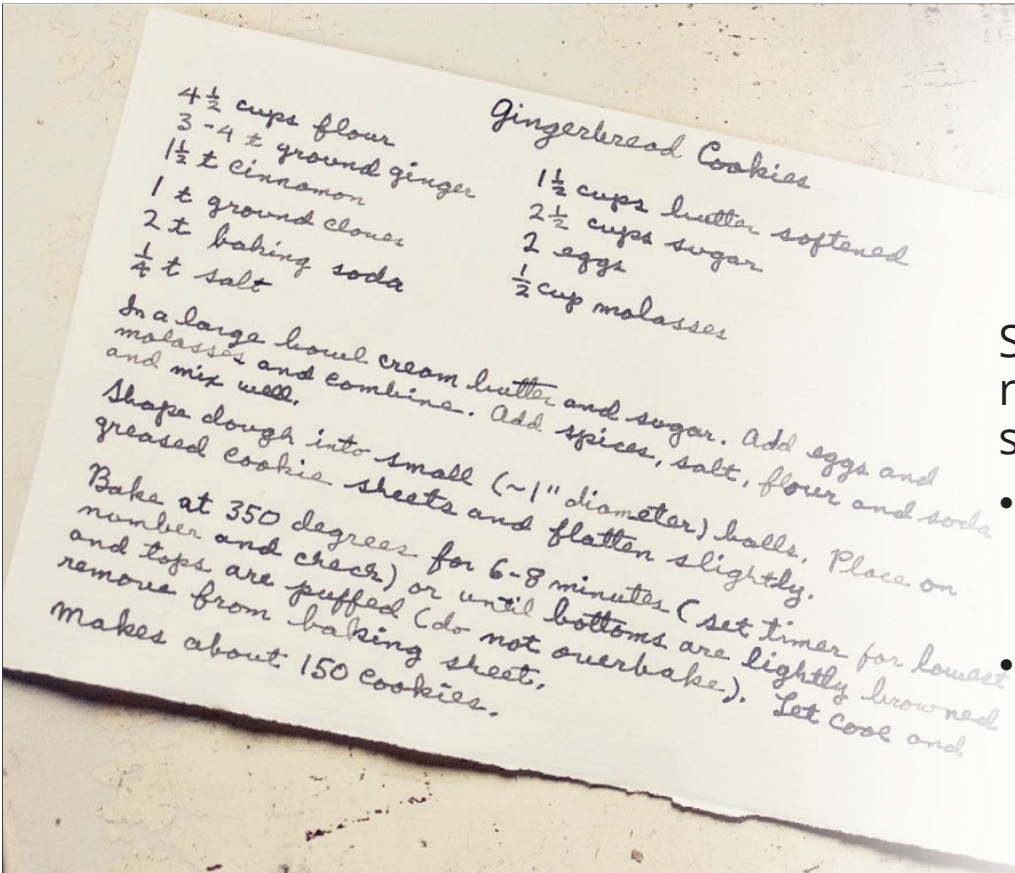
Immunization Program Workforce

- Immunization Program Manager Turnover
 - 2020-2023 (YTD) - 15 new interim; 31 new permanent¹
- IIS Manager Turnover
 - 56% known turnover from April 2021-February 2023²
- Turnover in other key staff include
 - Medical Director, VFC Coordinator, Vaccine Manager, Adolescent and/or Adult Coordinator¹

Sources: 1. Association of Immunization Managers (AIM) Annual Survey, 2. American Immunization Registry Association (AIRA) 14



Standards



What are standards?

Standards are the recipe for how to do something

- Connect with another system (interoperability)
- Record doses administered

Standards

1

New issue emerges or existing process needs to be harmonized across systems



2

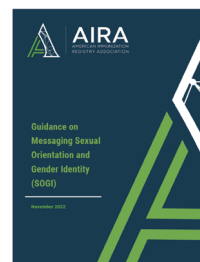
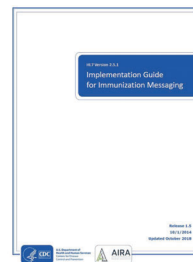
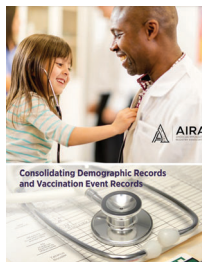
Several IIS may have implemented a way to address the new issue



3

Monitor issues and raises awareness on emerging topics

Topics that need additional work are identified & type of resource is identified



Value of IIS for Adult Providers

19

Adult vaccination schedules are complicated

Clinical Decision Support (CDS)

- Evaluates an individual's vaccination history & determines recommended immunizations needed for a patient
- Delivers recommendations to the healthcare provider

Helps to ensure the right vaccine is given at the right time!



Questions

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



Thank you

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