## National Center for Immunization and Respiratory Diseases



## **NAIIS Immunization Gateway Update**

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# **CDC's Vision for Immunization Information Systems**

**CDC** | NCIRD | Immunization Services Division

## CDC's Vision for Immunization Information Systems

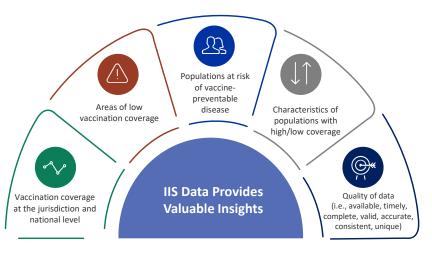
Immunization Information Systems (IISs) support the **standardized capture and exchange of high-quality, individual-level immunization data** for all doses of Advisory Committee on Immunization Practices (ACIP) recommended vaccines.

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



## **Immunization Data for Public Health**

Complete data at the IIS and national levels enables data-driven insights and decisions to advance public health action and emergency preparedness

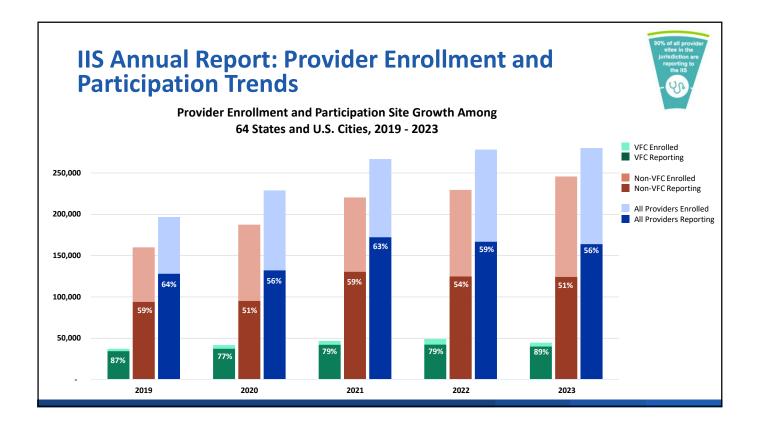


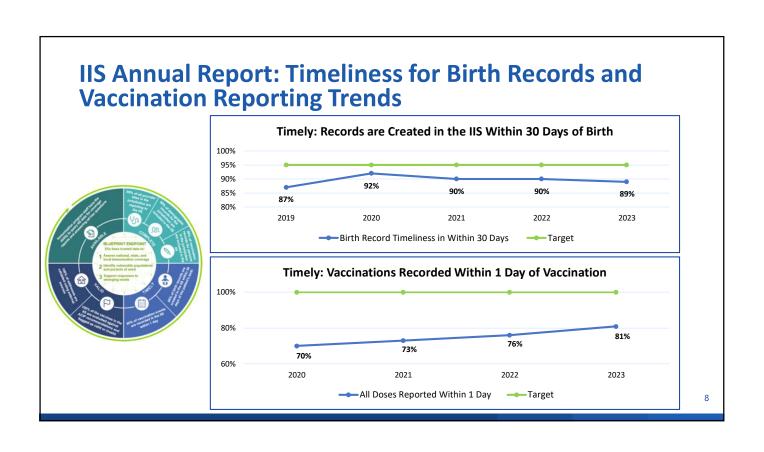
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## **IIS Data Quality**

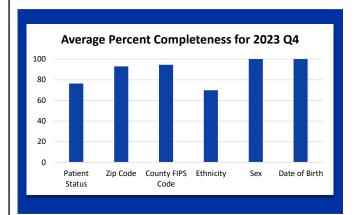
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#### **Immunization Data Reporting at the National Level** Pre-COVID-19 **COVID-19 Response Present DUAs and** New DUA allows reporting of Jurisdictions use IISs to manage Federally-provided vaccines, Data the Vaccines for Children (VFC) provider agreements, and a routine vaccination data program and understand their COVID-19-specific DUA across the lifespan. Reporting jurisdiction's vaccine coverage. superseded state reporting and 54 jurisdictions with DUAs data sharing laws to allow · Line-level routine data 13 jurisdictions signed Data reporting to CDC. reported quarterly Use Agreements (DUAs) 64 jurisdictions with DUAs Aggregate RSV, flu, COVID-· Routine data reported COVID-19 data reported 19 data reported monthly quarterly and flu data daily, then weekly reported monthly Data use was limited April Aggregate Jurisdiction Data Submissions Q2 2024 Routine Data Submission **Latest Data** submitted in May 2024 submitted in July 2024 Reporting COVID-19 All Data Flu Data **RSV Data COVID-19 Bridge Data Record Level Routine Data** 50 46 50 50 16 PPRL \*June data, submitted in July (\*PPRL data is as of Q1 2024)

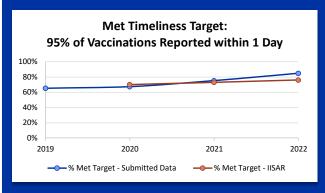




## **Routine Vaccination Data Quality: 2023 Q4 Summary**



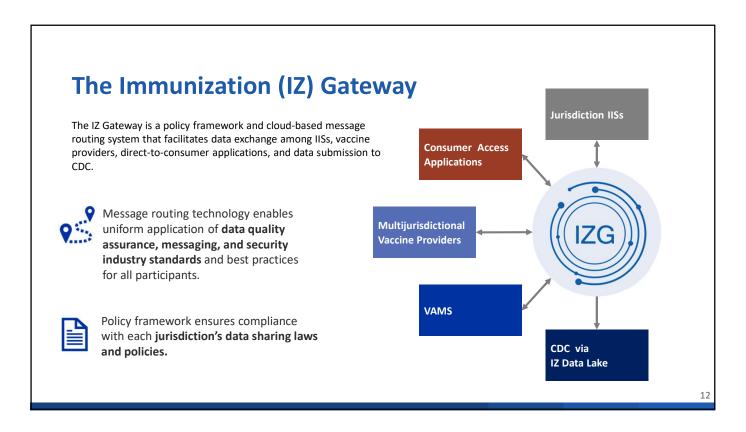
Average percent completeness for selected data elements from an analysis of routine data submissions by 38 jurisdictions in Q4 of 2023.

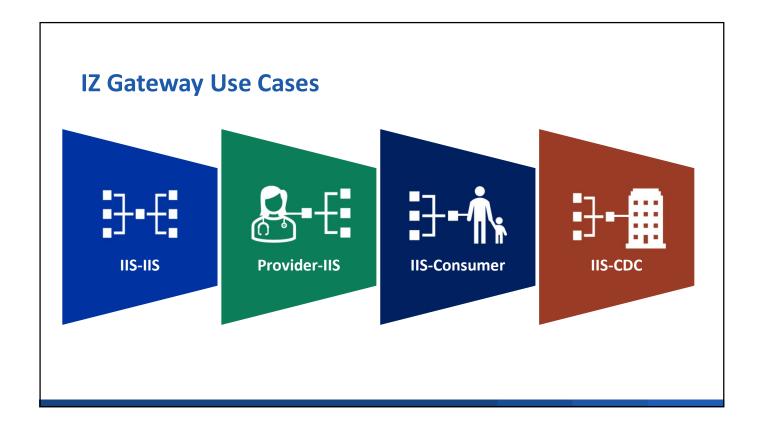


Timeliness of vaccination records from an analysis of routine data submissions by 38 jurisdictions in Q4 of 2023. These results were compared against IIS Annual Report metrics based on jurisdiction submissions for 2023.

**IZ Gateway Overview** 

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## **Provider-IIS**

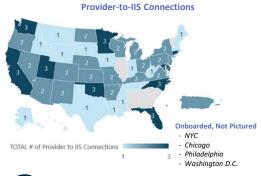
#### The Provider-IIS Use Case:

- Enables multi-jurisdictional providers to report and query IIS immunization data across states with a single connection point.
- Addresses the urgent need to support the delivery of clinical care to veterans and refugees by facilitating vaccination data flow among Veterans Health Administration (VHA) providers and Electronic Disease Notification System (EDN)



#### **Exchange Metrics**

**8** providers with **6,948** facilities in **51** jurisdictions





Updated 06/24/24

Increased data exchange for veterans and refugees:

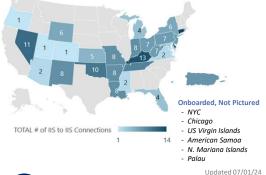
- 50 jurisdictions connect to VHA
- 23 jurisdictions connect to EDN

## **IIS-IIS**

#### The IIS-IIS Use Case:

- Enables cross-jurisdictional exchange of immunization data across IIS.
- Helps complete vaccination records for their residents so the Immunization Program and providers in their states can make informed decisions.
- Improves the IIS's ability to accurately assess vaccination coverage at the jurisdiction level.

#### **IIS-to-IIS Connections**





#### **Impact**

**37** IIS have more complete records for citizens vaccinated outside their jurisdiction





#### **Exchange Metrics**

**37** jurisdictions with **213** active exchanges

## **IIS-Consumer**



#### The IIS-Consumer Use Case:

- Provides patients with direct access to their immunization records through a consumer access portal or patient application that queries the IISs via the IZ Gateway.
  - Example: Consumers in Alaska, Idaho, New Jersey, Maine, Utah, and
    Wyoming have direct access to their immunization records through a consumer
    application called Docket®.





#### **Exchange Metrics**

1 platform exchanging with 6 jurisdictions



#### **Impact**

**6** jurisdictions streamlined their citizens' access to their consolidated vaccination records

## **IIS-CDC**



#### The IIS-CDC Use Case:

- Enables jurisdictions to automate vaccination data submission from IIS to CDC.
- Uses modern, cloud-based technology with continuous enhancements.
- Leverages established IZ Gateway integration, certificates, and encryption.
- Creates a single connection for data reporting to CDC that will be used for all future reporting needs.
- Supports jurisdictions with scalable manual and automated submission options.



#### **Exchange Metrics**

**22** jurisdictions submit routine vaccination data



#### **Impact**

Offers jurisdictions the option to automatically send their routine vaccination data to CDC rather than using a manual submission process.

## What is Next for IZ Gateway?

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## What is next for the IZ Gateway?

CDC is looking forward to continue improving immunization data exchange across use cases to enhance IIS and provider data completeness through the IZ Gateway.



Increase data sharing among jurisdictions to improve data completeness and inform clinical decision making.

By September 2024, the IZ Gateway aims to onboard 22 new pairings for a total of 257 connections



### **Provider-IIS**

Expand data exchange with multi-jurisdictional agencies, particularly for veterans and refugees.

By September 2024, the IZG aims to support data exchange between:

- VHA Vista and 56 jurisdictions
- DOD and 9 jurisdictions
- EDN and 36 jurisdictions



Support new consumer access connections to improve the availability of patient immunization records.



Work with additional jurisdictions that are interested and wellpositioned for IIS-to-CDC data exchange.

IZ Gateway will onboard 2 new jurisdictions to submit immunization data files to CDC

## Thank you! Questions?

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

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

