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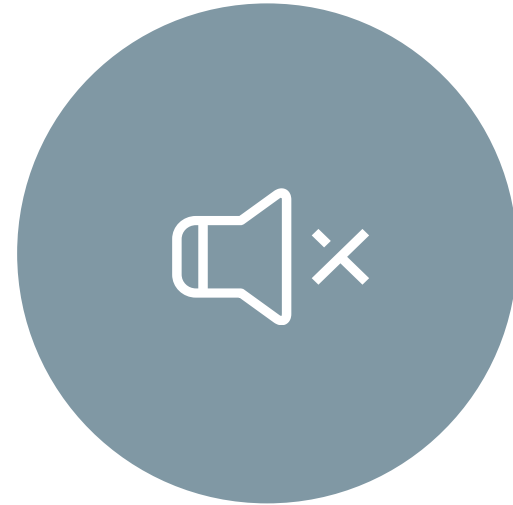
# AIRA Discovery Session: HIEs and How they Can Help IIS: An Update on the IDEAS Project

January 22, 2024  
4 PM ET

# AIRA Discovery Session



This meeting is being recorded  
and will be posted in the  
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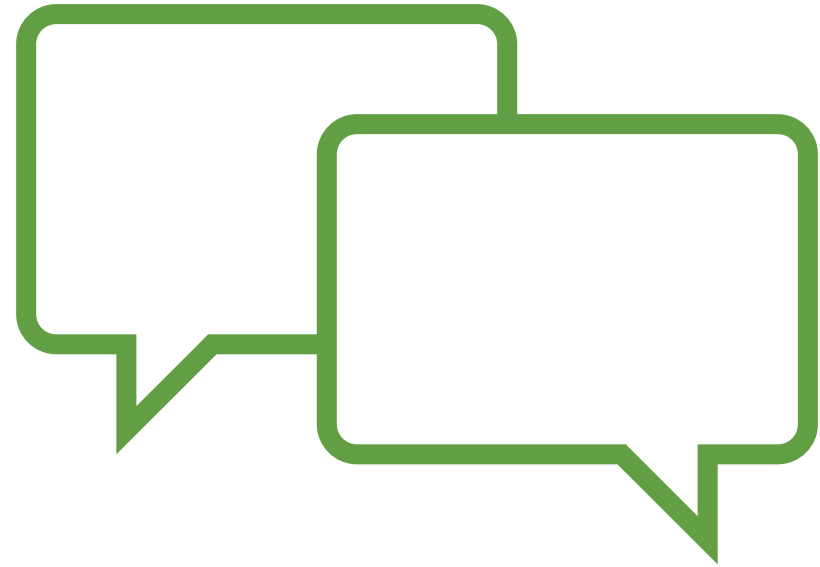


All phone lines  
are muted



# Technical Support

If you experience any technical issues during the meeting, please contact **Skylar Adkins** via direct message in the Chat.

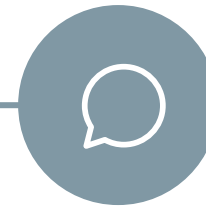


# Questions

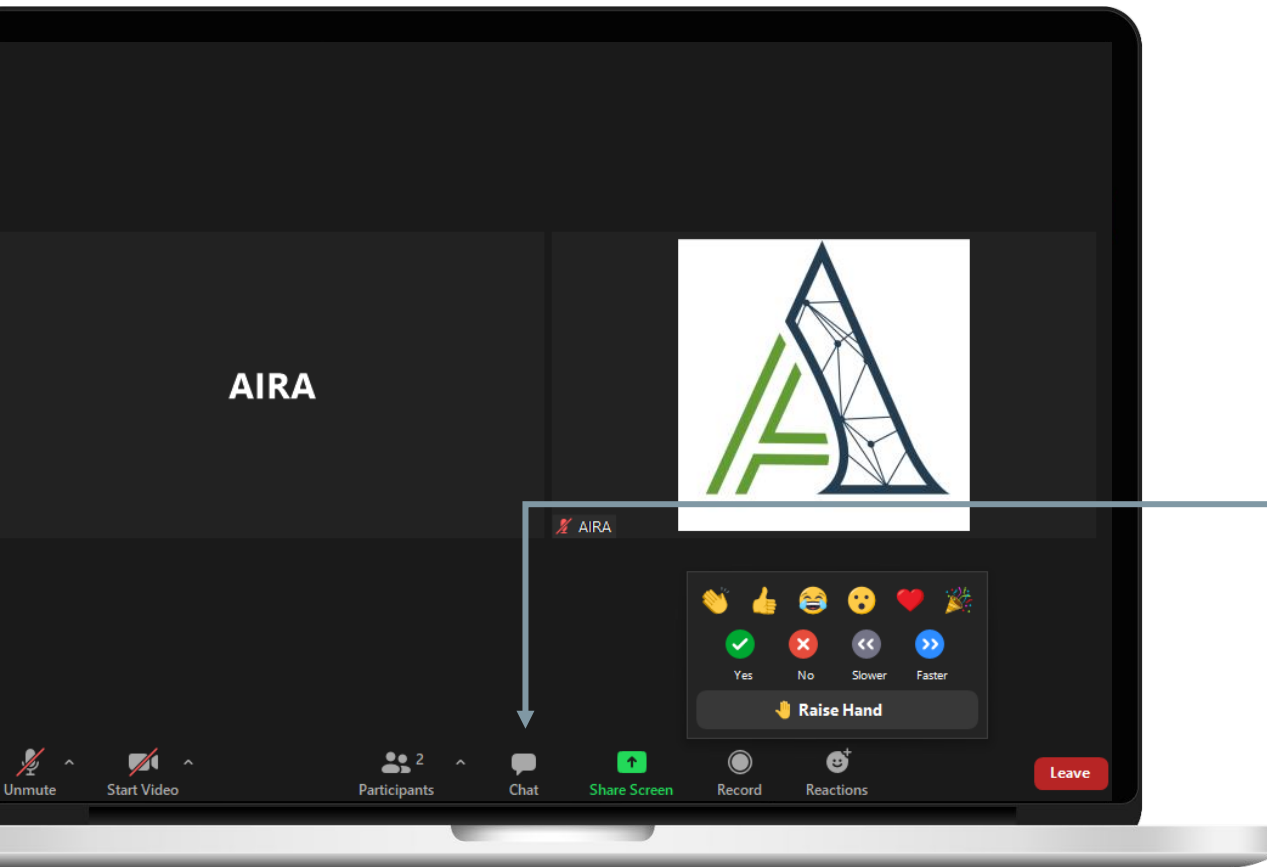
## How do I ask a question?

There will be time allotted for Q&A following the presentations.

If you think of a question during the presentations:



Select the chat icon and type your question into the chat box.





# Today's Presenters

- **Kate Ricker**, Civitas
- **Eliza Ramsey**, Alaska
- **Kim Gulliver**, Colorado
- **Brian Napier**, Ohio





# AIRA Discovery Session

HIEs and How They Can Help  
IIS: An Update on the IDEAS  
Project Confirmation

Kate Ricker, HIT SME Consultant  
Civitas Networks for Health



# ONC Immunization Data Exchange, Advancement and Sharing (IDEAS)

**Project Period:** 1/15/21 – 12/31/23

**Project Overview:** The ONC IDEAS program aims to provide technical assistance and capacity building support to cross-sector state teams to build and expand partnerships between state, regional, or local health information exchanges (HIEs) and state/territory immunization information systems (IIS).

## High-level Activities

- National landscape assessment
- Development of an IDEAS State TA Plan
- Awards to states and territories
- Assessing project impact and sustainability
- In-person working session for HIE/IIS strategy and implementation planning

## Partners

- Association of State Territory Health Officials (ASTHO)
- Civitas Networks for Health
- Association of Immunization Managers (AIM)
- American Immunization Registry Association (AIRA)
- Guidehouse

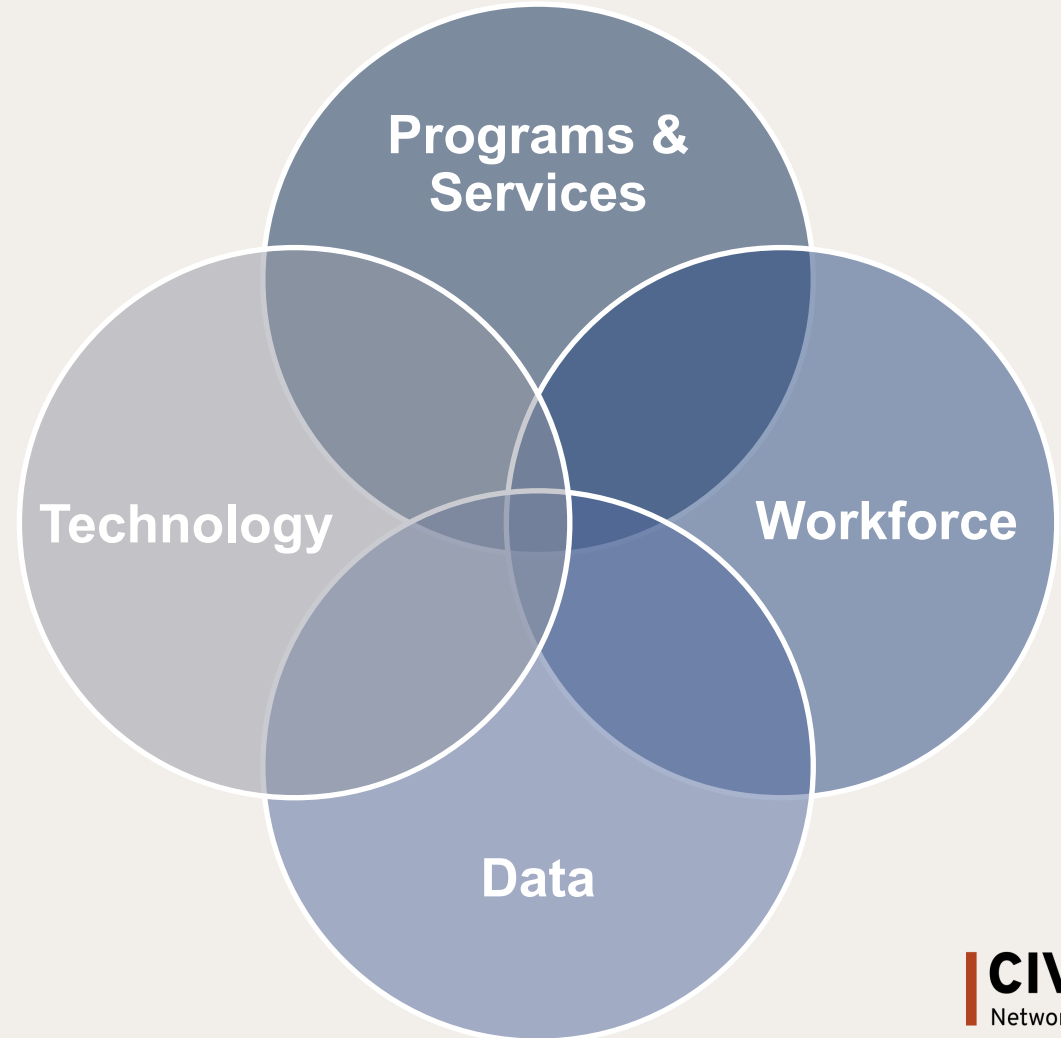
# IDEAS Program Overview and Goals

## Goals

- Opportunity to advance collaboration and increase data-sharing between the 63 immunization information systems (IISs) and approximately 100 health information exchange (HIEs) organizations in the United States
- Build on previous collaborations (such as STAR HIE Program) and successes to create opportunities to track COVID-19 vaccination progress, measure vaccination outcomes, monitor potential adverse events and long-term health outcomes, among others
- Bring jurisdictional IISs and HIEs together as one state/regional team to assess, select, plan and implement projects

# Modernize and Integrate Public Health Services Data and Technology

Public health has critical infrastructure needs related to the workforce, foundational services, and modernizing public health data systems



# Multiple HIE Models Across States and Cities

- State designated HIEs/HDUs
- State-led HIEs
- Community/Regional HIE organizations
- Enterprise HIE
- EHR vendor customer networks
- National-level health information networks (EHR vendor centric)
- CDC data networks (IZ Gateway)

# Civitas Networks for Health – HIE Membership

## Reporting to public health agencies

Easing the burden of mandatory reporting of health events and other data submissions

40

## Use by public health employees

Collecting clinical records from healthcare providers as part of investigation or treatment

38

## Enhancing clinical data

Combining data sets, via patient linking, to enhance data or improve accuracy

23

## Pushing public health data to the field

Use records collected by public health to assist clinicians at the point of care

36

# HIE Value Proposition for Sending and Receiving IIS Data



## Transformation

Converting EHR data into IIS required format



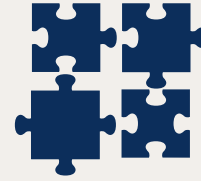
## Notification

Push notifications or updates when vaccine administered for HIE participant's member population



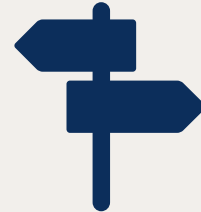
## Data Quality

Improve data quality on data submitted by EHR to meet IIS data quality standards (e.g., content, format)



## Consolidation

Consolidate patient IIS data before returning it to the EHR system for treatment purposes



## Longitudinal Record

Accessing/presenting data about the same patient from multiple clinical sights for a complete record



## Vaccination Gaps

Match existing IIS data with HIE participant attribution lists to identify opportunities for outreach, quality improvement, and closing vaccination gaps

# IIS & HIE Challenges

- Defined community and public health data governance
- Multiple data feeds into IIS
- Defined roles, responsibilities, and vaccine data access needs
- Policy constraints and conflicting data use agreements
- Sustainable funding options

For additional information, please contact

Kate Ricker

[kricker@civitasnetworksforhealth.org](mailto:kricker@civitasnetworksforhealth.org)



# IDEAS Learning Community Participation

January 22, 2024  
AIRA Discovery Session

# LOGISTICS OF DATA SHARING

- More than a year of sharing .csv files on a weekly basis with Alaska HIE - healthConnect
- COVID-19 immunization file is matched against HIE master person index (MPI)
- Only immunization data for existing persons is included in the HIE
  - About 65% of individuals in IIS were represented in HIE
  - Less than 1% were duplicates



# PILOT PROJECTS

- Partnered with specialty care clinic and FQHC to evaluate integration of COVID-19 immunization data in HIE
- Engage new providers to support immunization by wrapping information into clinical workflows with HIE tools
- Clinicians reported increase in conversations with patients that yielded COVID-19 initiation or booster dose



# FUTURE PLANS

- Evolving data file shared to be relevant to current clinical decision-making
- Enhance bi-directional data flow between IIS-HIE
- Longer term exploration of technical and logistical architecture to support more real-time and interoperable data exchange



Thank you!

**Monette Schwoerer**  
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**Eliza Ramsey**  
[eliza.ramsey@alaska.gov](mailto:eliza.ramsey@alaska.gov)



# IDEAS Project Update

AIRA Discovery Session

Kim Gulliver  
CIIS Data and Operations Manager  
Division of Disease Control and Public Health Response



**COLORADO**  
Department of Public  
Health & Environment

# Agenda

- Project aim and goals
- Project milestones and accomplishments
- Data sharing illustration
- Project progress and impact
- COVID-19 and childhood vaccination data examples



# Project Aim and Goals

- Project Partner: Colorado Community Managed Care Network (CCMCN)
  - CCMCN supports safety-net providers across Colorado with health IT resources to improve costs and care
  - CCMCN partners with FQHCs, CAHs and RHCs throughout Colorado
- Project Goal: The partnership aimed to reduce disparities through enhanced sharing of IZ data
  - Prior to the project, CCMCN only had access to their partner EHR data so there were gaps in what data they supplied to their partners



# Project Milestones and Accomplishments

10/04/22: Data  
Exchange  
Mechanism  
Identified

03/15/23:  
COVID-19 IZ  
Data  
Exchanged

06/15/23:  
Comprehensive IZ  
Data Exchange

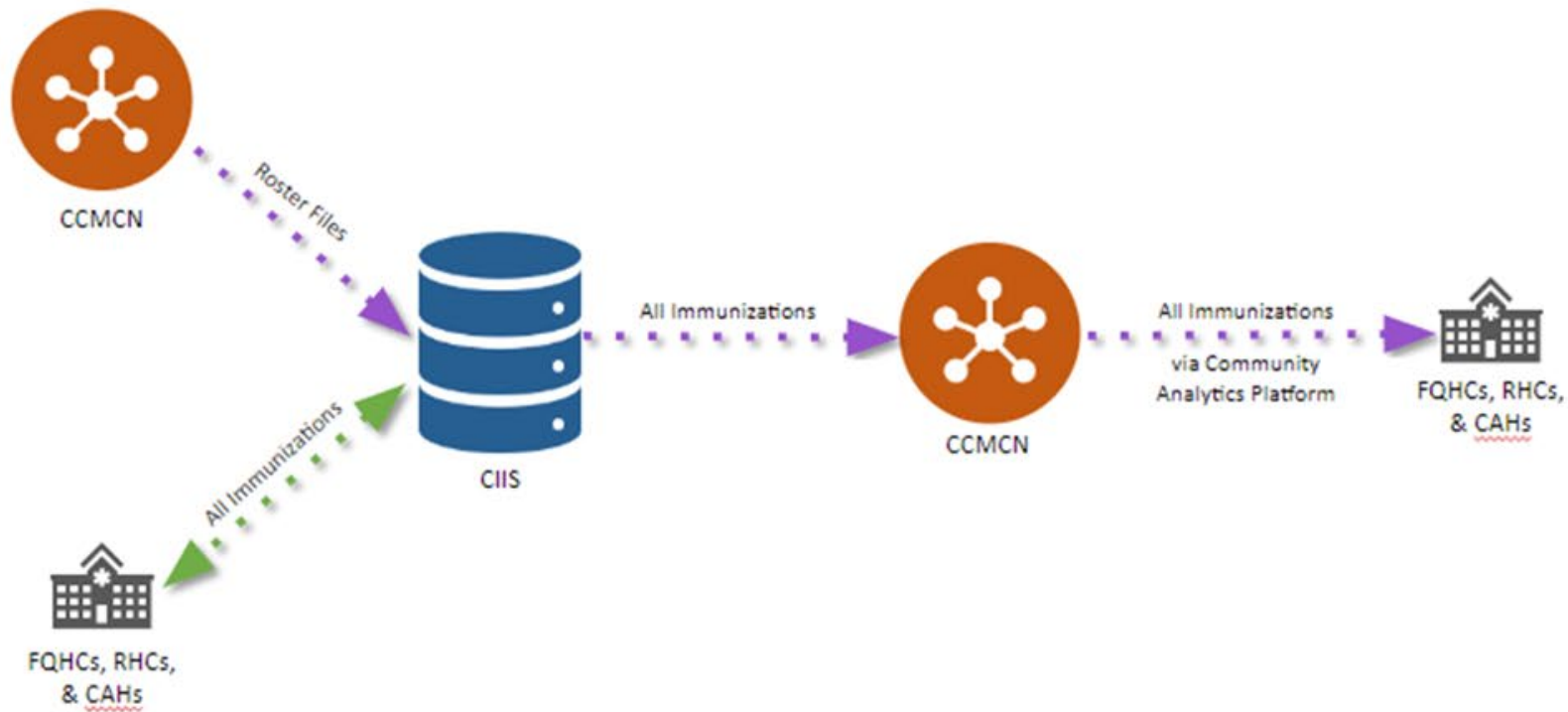
02/21/23:  
DUAs  
Executed

06/14/23:  
COVID-19 IZ  
Reporting Go-  
Live

11/15/23:  
Childhood IZ  
Reporting Go-  
Live



# Data Sharing Illustration



# Project Progress and Impact

- Through the CIIS-CCMCN partnership and IDEAS project:
  - 32 locations have been onboarded across FQHCs and rural providers
  - Over 18.5 million records exchanged on more than 1.1 million lives
  - COVID-19 and childhood IZ reporting are available to health centers
- Benefits of IDEAS project
  - Health Centers
    - Provides a more complete picture of COVID-19 and childhood immunizations
    - Easy access to population-level view data
  - CDPHE
    - Support partnerships and access to IIS data for organizations serving vulnerable populations



# COVID-19 Vaccination Data Example

## Network COVID-19 Vaccination Tracker

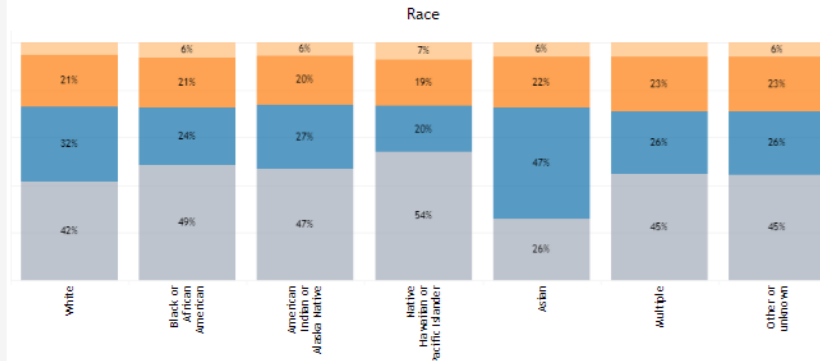
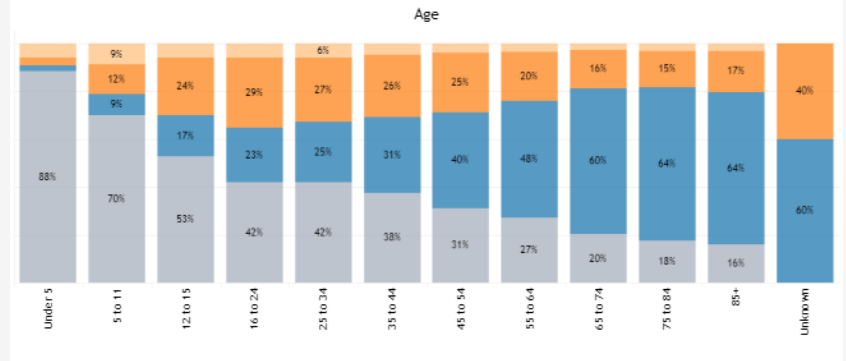
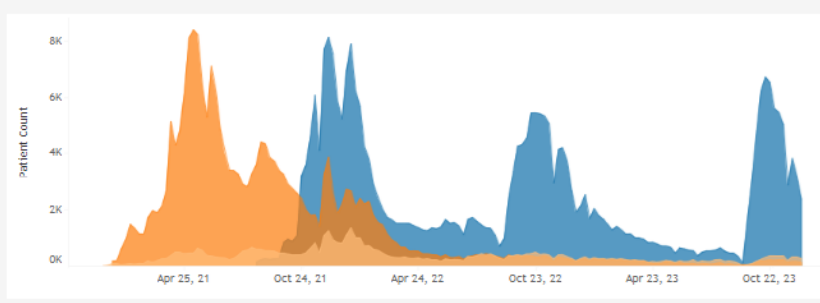
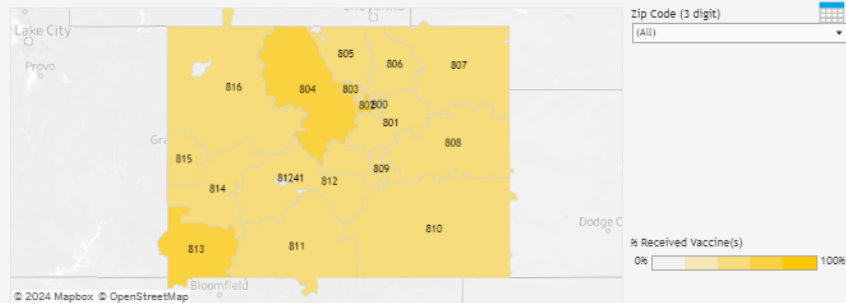
### COVID-19 Vaccination Overview

Vaccination Status: (All) | Active Patient: (All) | Medicaid Attribution: (All)

Unvaccinated: 436,345 | 43.16% | Partially Vaccinated: 56,030 | 5.54% | Fully Vaccinated: 219,347 | 21.69% | Boosted: 299,335 | 29.61%

Total Patients  
1,011,056

Total Doses  
1,581,266



# Childhood Vaccination Data Example

## Childhood Immunization

### Child Immunization Overview

Legend  
■ Off Schedule ■ On Schedule

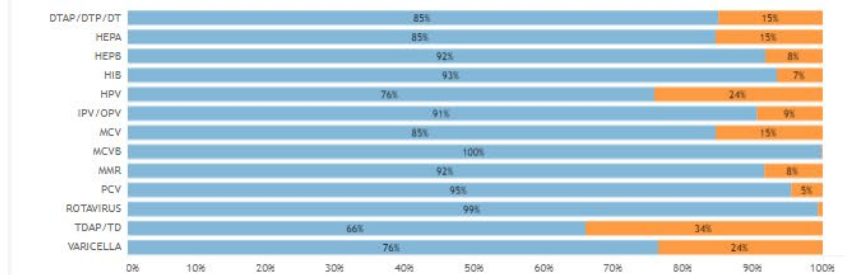


\*Disclaimer: Data below includes data that has been reported to the Colorado Immunization Information System (CIS) and may not represent 100% of all vaccines that have been administered to Colorado residents.

Clinic Name: (All) Vaccine Type: Lifetime Population: (All) Vaccine Series: (All) Eligibility: Eligible Status: (All) Status Subgroup: (All) Currently Attributed: (All)

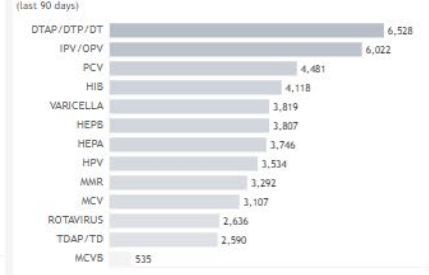
<b>Total Patients</b> 264,392	<b>On Schedule Patients</b> 103,249   39%	<b>Off Schedule Patients</b> 161,143   61%	<b>Doses Administered</b> (last 90 days) 48,356
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#### On/Off Schedule Breakdown



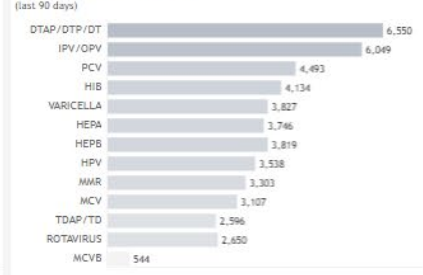
#### Patients Recently Vaccinated

(last 90 days)

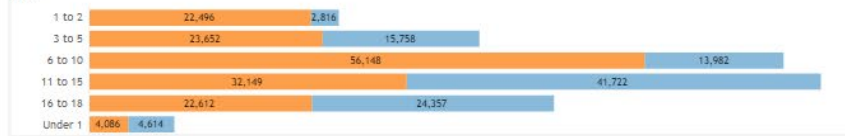


#### Doses Recently Administered

(last 90 days)



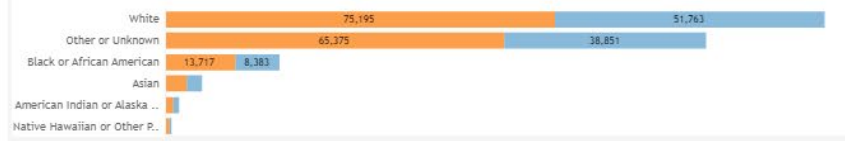
#### Age



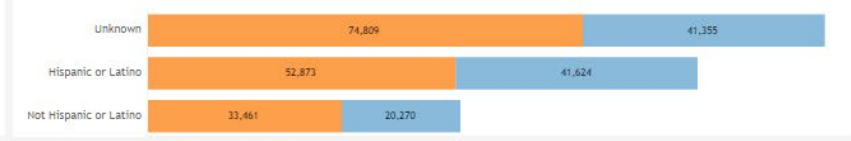
#### Sex



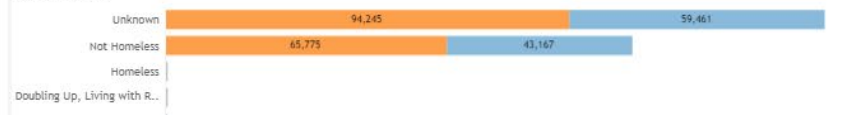
#### Race



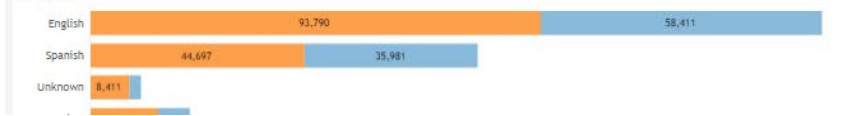
#### Ethnicity



#### Homelessness



#### Language



# Thank you!



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# Immunization Data Exchange, Advancement and Sharing Project

Jan. 22, 2024

**Brian Napier, IIS Manager**  
**Immunization Program**  
**Bureau of Infectious Diseases**

# Ohio's IIS-HIE Data Sharing Model

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The Ohio Department of Health (ODH) worked with CliniSync, Ohio's health information exchange (HIE).

## **ODH sought increased access to patient data stored in the Immunization Information System (IIS).**

- Began with providers who had trouble with bidirectional interfaces to the IIS.
- During the project, we added nine query-response interfaces via CliniSync which serve 199 vaccinating locations.

## **But a query interface is not always the best solution.**

- West Virginia providers often serve patients vaccinated in Ohio.
- Ohio's IIS does not have the capacity to respond to queries about each patient seeking care in West Virginia.

# Ohio's IIS-HIE Data Sharing Model

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ODH worked with CliniSync, Ohio's HIE.

## **ODH decided to leverage HIE data sharing capabilities.**

- West Virginia providers were already getting Consolidated Clinical Document Architecture documents from CliniSync.
- Augmenting the vaccination histories with IIS data could serve those providers and their patients.

## **Requires communicating vaccination histories to the HIE.**

- Current approach is a daily file generated out of a reporting database.
- One challenge is communicating changes, especially deleted data.

# NEXT STEPS

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- Benefits to IIS.
  - HIE authorizes use.
  - Increases access without additional IIS resources.
- Benefits to HIE providers.
  - Allows multiple workflows.
  - In jurisdictions with no reporting mandate, IIS data may not be complete.

# QUESTIONS?

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IMPACT@ODH.OHIO.GOV

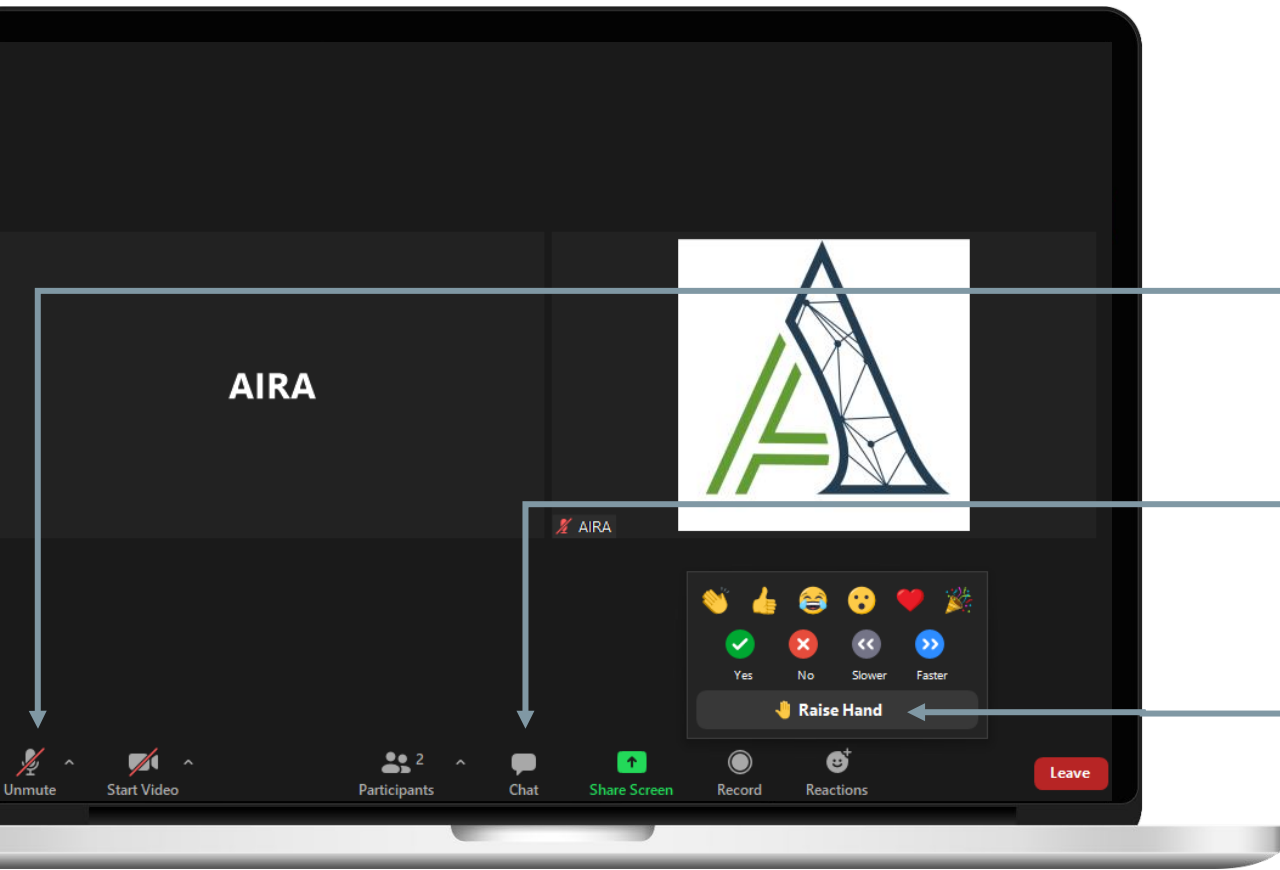


Department of  
Health



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# Question & Answer



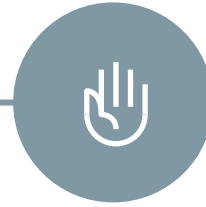
## How do I ask a question?



Select the unmute icon and ask your question verbally.



Select the chat icon and type your question into the chat box.



Select the reactions icon, select "Raise Hand," and you will be called on.



*Thank you to our presenters,  
and thanks to all of you for  
joining us!*

Please complete a brief evaluation survey.

The next Discovery Session  
will be on **February 26, 2024**