## Adult Programmatic Framework Breakout Session

**December 11, 2024** 





## Agenda

- Introduction
- Presentations
  - Sam Graitcer
  - Marie Hartel
  - Heather Roth
- Q&A

## **CDR Samuel B. Graitcer**

Lead for the Provider Compliance and Quality Assurance Team, Immunization Operations Services Branch in Immunization Services Division (ISD)





## Marie Hartel, MPH

Program Director, Communicable and Environmental Diseases and Emergency Preparedness Division

Tennessee Department of Health





## **Heather Roth**

**Immunization Branch Chief** Colorado Department of Public Health and Environment







# The Adult Immunization Program Framework: Using a Maturity Model to Advance Adult Immunization Efforts

Presenter: Sam Graitcer, MD

Team Lead, Provider Compliance and Quality Assurance Team (VFC and Adult Units)

Immunization Operations and Services Branch (IOSB) | Immunization Services Division (ISD)

AIM Leadership Conference December 10-12, 2024

#### **Goals for Presentation**

#### Time: 10 mins

- 1. Provide brief refresher on the adult immunization program framework (AIPF)
- 2. Review findings from pilot with 10 awardees
- 3. Highlight updates from initial activities on 27 funded awardees this fall
- 4. Talk about next steps and introduce the 2024 Adult Immunization Program Assessment Survey

#### **Background**

#### **Limited Infrastructure to Support Adult Immunization**

- Unlike pediatric vaccination, which is supported by 30 years of Vaccines for Children (VFC) entitlement funding, no similar mandatory funds are available to support adult vaccination.
- Further, no comprehensive guidance was previously available for the 64 immunization programs (a.k.a. awardees) on using their 317 discretionary funds to support adult immunization activities.
- To address this gap, IOSB developed the Adult Immunization Program Framework

#### What is the Adult Immunization Program Framework?

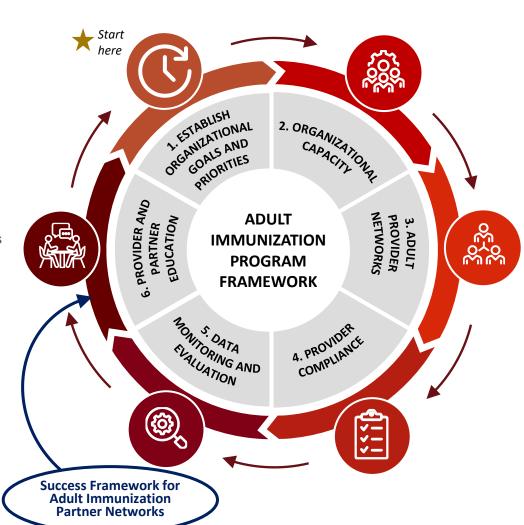
The Framework is a question-based guide intended to help immunization program managers and staff to:

- Assess the development/maturity of their adult immunization programs by working through 6 different domains.
- Focus resources on activities that advance their adult immunization capacity.
- Improve their pandemic preparedness by building their adult immunization infrastructure (i.e., systems for adult vaccine ordering, monitoring, and distribution and onboarding adult immunization providers).
- Prepare for the day when Vaccines for Adults (VFA) is a reality.

#### **Adult Immunization Program Framework**

<u>Instructions</u>: The framework **guides users through a series of key questions** that are aligned to six domains. Read the questions in order within each domain, starting with "1. Establish Organizational Goals and Priorities," then move clockwise to the next domain.

- **1A.** Do you have a **defined mission statement** specific to adult immunization?
- **1B.** Does your program have **defined adult immunization program goals**, objectives, performance indicators, and activities?
- **1C.** Does your program work with policymakers to support adult immunization goals, objectives, performance indicators, and activities?
- **6A.** Do you provide **resources or training opportunities** to adult vaccine providers?
- **6B.** Do you support **training opportunities for providers** on how to use the IIS?
- **6C.** Do you work with **provider organizations and coalitions** to amplify messaging to adults about the importance of vaccination and how to access vaccines?
- **5A.** Do you have processes in place to **strengthen adult vaccine provider onboarding** to the IIS?
- **5B.** Do you have a plan to increase provider reporting of adult vaccines to the IIS?
- **5C.** Do you have an **IIS data quality plan** specific to adult populations?
- **5D.** Do you have **systems to monitor the overall adult vaccine program** including adult vaccine providers?



- **2A.** Do you have an **organizational structure** to support an adult immunization program?
- **2B.** Do you provide **internal capacity-building opportunities** for adult immunization program staff?
- **2C.** Do you **leverage and diversify Federal, State/Local, and/or other funds** to support adult immunization work?
- **3A.** Has your program **enumerated the number of adult providers and adult patients** in your jurisdiction?
- **3B.** Do you have **formal agreements and/or provider enrollment forms** with adult vaccine providers?
- **3C.** Do you have systems in place for adult providers to order adult vaccines, report inventory, and track returns/wastage as part of the adult program?
- **4A.** Do you **conduct enrollment site visits** with adult vaccine providers?
- **4B.** Do you **conduct compliance site visits** with adult vaccine providers?
- **4C.** Do you monitor the storage and handling of adult vaccines?
- **4D.** Do you implement **quality improvement initiatives** for your adult vaccine providers?

#### **Instructions for Recommended Actions**

1

Each of the 6 domains is identified by a set of key questions



Levels reflect progressive stages of development within each domain

	Organizational Goal nended Approach: Consider all bullet points f	Is and Priorities for each level before moving to the next level. Af	ter reflecting on Level 4, move to the next	question.
Key Questions	Level 1 Recommended Actions	Level 2 Recommended Actions	Level 3 Recommended Actions	Level 4 Recommended Actions
A. Do you have a defined mission statement specific to adult immunization?	Define mission	Gather support	Implement mission	Adapt mission
	<ul> <li>Identify and review existing mission statements (e.g., other areas within the health department or other state programs).</li> </ul>	<ul> <li>Commit Immunization Program leadership to adult immunization mission efforts.</li> <li>Publicly share the mission statement with internal and external stakeholders to align</li> </ul>	Exercise mission statement to inform long-term adult immunization program strategic planning and development.	<ul> <li>Integrate population, vaccine type, and region-specific mission statements with the overall mission.</li> <li>Poutingly assess and undate the</li> </ul>
	Develop a mission statement specific to adult immunization program activities.	strategic planning.		<ul> <li>Routinely assess and update the mission statement to reflect changes in the adult immunization program.</li> </ul>
B. Does your	Identify goals	Refine goals	Engage partners	Assess progress
program have defined adult immunization program goals, objectives, performance indicators, and activities?	<ul> <li>Review available surveillance and other population-level data to determine program gaps.</li> <li>Identify SMART goals, objectives, performance indicators, and activities.</li> <li>Align adult immunization program goals with Immunization Program Operations Manual (IPOM) activities.<sup>2</sup></li> </ul>	<ul> <li>Use data insights to refine program goals, objectives, performance indicators, and activities and share with partners to increase transparency.</li> <li>Review identified goals, objectives, performance indicators, and activities with internal and external partners.</li> <li>Develop Responsible Accountable Consulted Informed (RACI) chart(s)<sup>3</sup> to inform project decision-making.</li> </ul>	<ul> <li>Establish opportunities for partners in your network to continually contribute to the ongoing review and refinement of goals, objectives, performance indicators, and activities.</li> <li>Develop goals, objectives, performance indicators, and activities by vaccine type and/or subpopulation.</li> </ul>	<ul> <li>Use project management tools to support program collaboration, adult immunization activity tracking, and resource allocation.</li> <li>Routinely assess goals, objectives, performance indicators, and activities.</li> </ul>

3

• Each level includes recommended actions to advance to the next level

#### **Framework Materials**

All resources can be found on the All-awardee SharePoint

#### **Framework Materials**



#### **Orientation Guide**



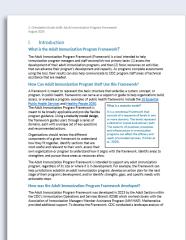
#### **Summary Slides**

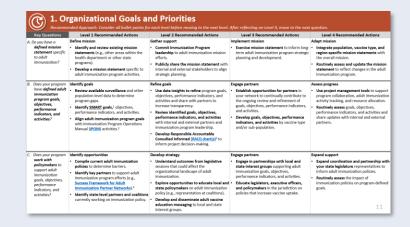






#### **Closeout Summary**







If you accidentially select a level or change your mind, you can uncheck using the following steps: (1) right-click on the button, (2) scroll to and select "formul control," and select "unchecked" and then "okay,"						
	Gap 1 (Enter text):	Gap 2 (Enter text):	Gap 3 (Enter text):			
What gap(s) did your jurisdiction select to address? If more space is required, please create a copy of this tab.						
	Select level:	Select level:	Select level:			
For each gap identified above,	Q lesi 1	Q law! 1	Q (ent)			
what "level" did your jurisdiction reach following activity	O intil	O lavel 2	O levil 2			
completion in the corresponding Recommended Actions? Select		4				
Level 1, 2, 3, or 4 to identify the	Otest	Q lawl 5	Otevi3			
current atatua.	Otenia	O tanké	O revers			
	Success Story from Gap 1 (Enter text):	Success Story from Gap 2 (Enter text):	Success story from Gap 3 (Enter to			
	Success Story from Gap 1 (Enter text):	Success Story from Gap 2 (Enter text):	Success story from Gap 3 (Erner to			
What was a success story from implementing the activities to address the identified gap(s)? Please be as specific as possible.						
	Barrier from Gap 1 (Enter text):	Barrier from Gap 2 (Enter text):	Barrier from Gap 3 (Enter text)			
Barrier(s)/challenge(s) to implementing the activities to address the identified gap(s)?						

#### **Adult Immunization Program Framework Implementation**

At-a-glance

#### **PILOT**

10 Unfunded pilot awardees

**JAN-MAY 2024** 

#### SUPPLEMENTAL FUNDED IMPLEMENTATION

CDC-FFA-IP1901 supplemental funding

- 10 pilot + 17 newly implementing
- Total funding of ~over 3.9 Million for adult Framework

JUL 2024 - JUN 2025

The Adult Framework domains and activities are in the process of being integrated into the broader set of immunization activities across all jurisdictions for the future

## **Overview of the Pilot Program**

#### Piloting the Framework with 10 Awardees

#### **Objectives**

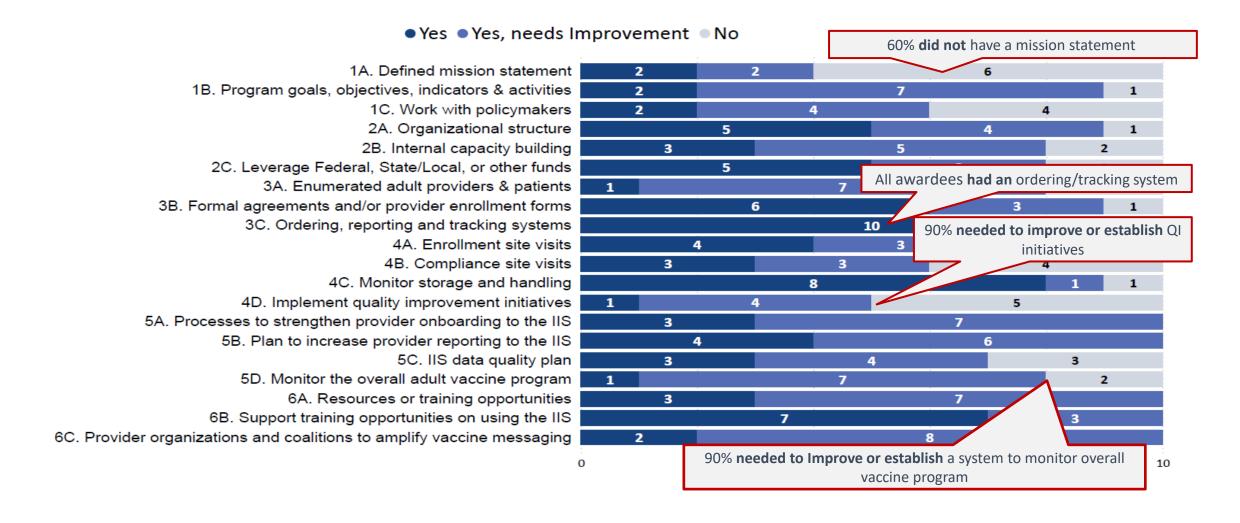
- Assess the real-world application of the Framework.
- Develop technical assistance opportunities for the 64 CDC-funded immunization program awardees.
- Identify opportunities for integrating the Framework into the IPOM.

#### **Technical Assistance**

- Individual consultative sessions and targeted workshops focused on implementation and goal setting.
- Communities of Practice and peer-to-peer sessions for information sharing between awardees.

#### Pilot Highlights: Checklist Responses

#### Total number of pilot awardees (n)=10



#### **Pilot Highlights** Summary Findings

- Most (60%) awardees focused on Domain 1 (Organizational Goals and Priorities)
  to first align program goals, priorities and activities.
- Other top domains of focus were Domain 2 (Organizational Capacity) and Domain 3 (Adult Provider Networks).
- All program participants had a generally positive overall experience and satisfaction with the Framework and the complementary Assessment Workspace.
- Most participants noted that the Framework enabled a comprehensive program assessment of their programs and strategic planning to address any identified program gaps

#### **Pilot Highlights:** Summary Findings

 Awardees highlighted factors like leadership buy-in, staff capacity, access to data, available funding and CDC technical assistance helped them apply the Framework and develop plan to address gaps.

 Other positive contributing factors mentioned included staff readiness, team collaboration, existing infrastructure, and knowledge built by other immunization programs, tailoring the framework specific to awardee's program.

#### **Pilot Highlights:** Summary Findings

 All awardees agreed that adult immunization activities should be integrated across the Immunization Program Operations Manual (IPOM). Further 80% of awardees mentioned integration would not hinder pediatric vaccination efforts.

Based on awardee feedback, the Framework was modified to improve flow across the domain levels, provide a mechanism for capturing progress, note challenges and contextualize responses.

#### **Taking Action!**

"Used locally available data to understand and improve their adult provider network".- CO Awardee

"Integrated adult immunization activities into their provider compliance"- PA awardee

"Developed goals and explored data sources as well as used data to examine adult provider enrollment and network." - WI Awardee

## **Supplemental Funded Framework Activities and Feedback**

**Preliminary Results** 

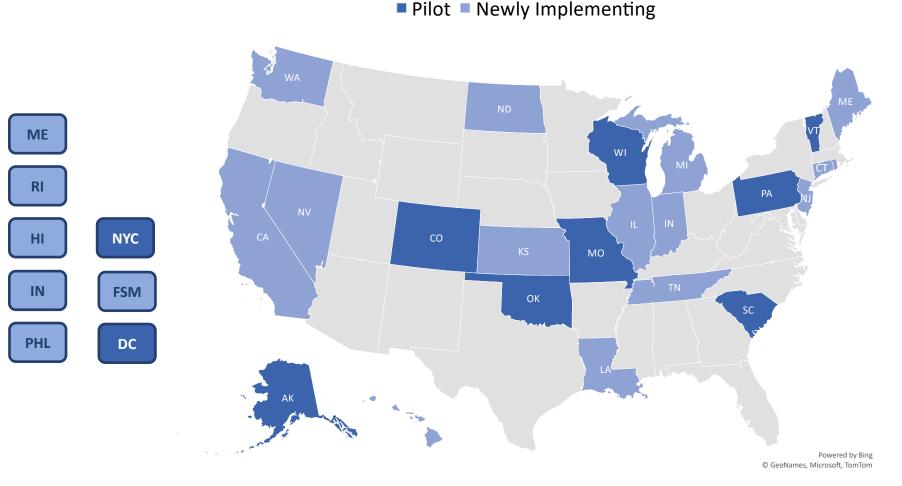
## **Supplemental Funded Adult Immunization Program Framework Implementation**

27

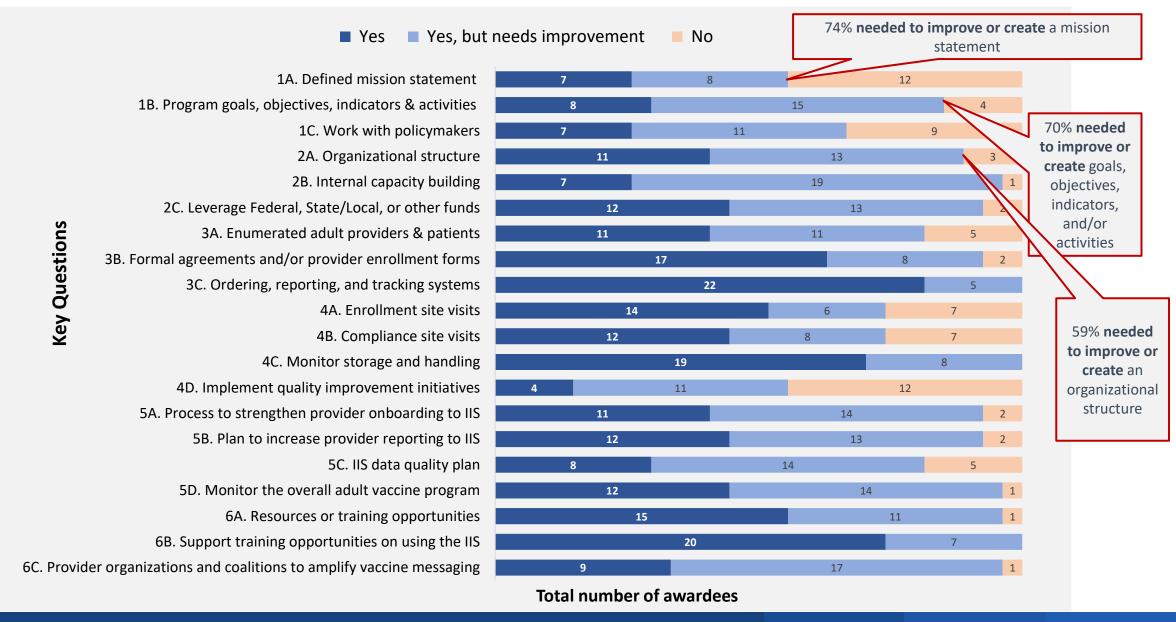
Total Supp funded awardees

- **4** Quarterly working group
- **2** Bi-annual community of practice

Monthly & Ad hoc calls and touch points



#### **Deliverable: Checklist** (n=27)



#### **Program Improvements Overtime**

Improvement trends among the initial 10 pilot awardees

- Increase in awardees with a mission statement specific to adult immunization
- Increase in awardees with a defined immunization program goals, objectives, performance indicators and activities
- Increase in awardees working with policymakers to support adult immunization activities
- All pilot awardees now have some organizational structure to support an adult immunization program with some working on improvements.
- Increase in awardees conducting compliance site visits with adult vaccine providers

#### **Community of Practice-Awardee shared experiences**

- Improved program structure: Framework enabled programs to establish more organizational structure and focus compared to earlier stages (beginning of pilot)
- Refined program goals: Framework helped focus and align programs goals and activities
- Collaboration and Learning: Awardees greatly benefited from opportunities to collaborate with colleagues both interdepartmentally and across teams. This collaboration fostered a shared understanding of adult immunization activities and helped align goals to drive effective program implementation.
- TA sessions have enabled awardees make meaningful connections, share resources and fostered an environment for peer support

## **Next Steps**

#### In Progress & in the Future

 27 supplemental funded awardees that began implementing the Framework in July 2024 will conclude June 2025.

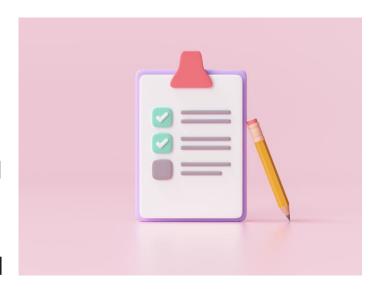
- The Adult unit will continue to provide targeted technical assistance opportunities to support the 27 supplemental funded adult immunization program awardees successfully implement the Framework and enhance their immunization programs.
- Adult unit will use findings from the pilot and the 27 funded awardees to inform future directions for adult immunization activities and support for all awardees in the future.

#### Acknowledgments

- All pilot and supplemental funded immunization program awardees
- Key partners and contributors
- Leadership and CDC support teams
- PCQA Adult unit:
  - IJ Uzoezie
  - Chris Wells
  - Amy Parker Fiebelkorn
  - Krysanthe Thomas

#### **Upcoming Adult Immunization Program Survey**

- What: 30-item survey on adult immunization program infrastructure.
- Who: One response from each of 64 CDC-funded awardees.
- When: REDCap open access December 16, 2024 January 22, 2025.
   Two open Office Hours will be held to answer any questions.
- Why: Identify current adult immunization program components helpful in increasing pandemic preparedness and capacity for reaching disproportionately affected adult populations. Will address provider enumeration, finance policies, and other issues not previously assessed in 2022 assessment
- What's next: Results will be used to improve TA, the Adult Immunization Program Framework and inform discussions on adult vaccine access disparities and preparedness.



### **THANK YOU!**



Please feel free to reach out to <a href="mailto:adultvaxconsult@cdc.gov">adultvaxconsult@cdc.gov</a>

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.



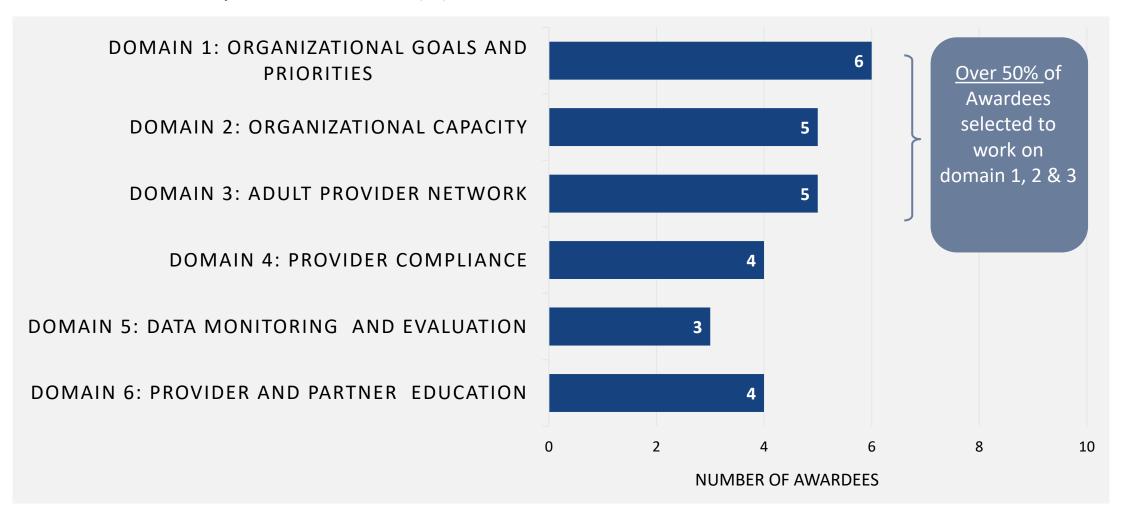
#### References

- Survey data were collected and managed using REDCap electronic data capture tools hosted at Centers for Disease Control and Prevention.<sup>1,2</sup> REDCap (Research Electronic Data Capture) is a secure, web-based software platform designed to support data capture for research studies, providing 1) an intuitive interface for validated data capture; 2) audit trails for tracking data manipulation and export procedures; 3) automated export procedures for seamless data downloads to common statistical packages; and 4) procedures for data integration and interoperability with external sources
- ¹PA Harris, R Taylor, R Thielke, J Payne, N Gonzalez, JG. Conde, Research electronic data capture (REDCap) A metadata-driven methodology and workflow process for providing translational research informatics support, J Biomed Inform. 2009 Apr;42(2):377-81.
- <sup>2</sup>PA Harris, R Taylor, BL Minor, V Elliott, M Fernandez, L O'Neal, L McLeod, G Delacqua, F Delacqua, J Kirby, SN Duda, REDCap Consortium, The REDCap consortium: Building an international community of software partners, J Biomed Inform. 2019 May 9 [doi: 10.1016/j.jbi.2019.103208]

## Appendix

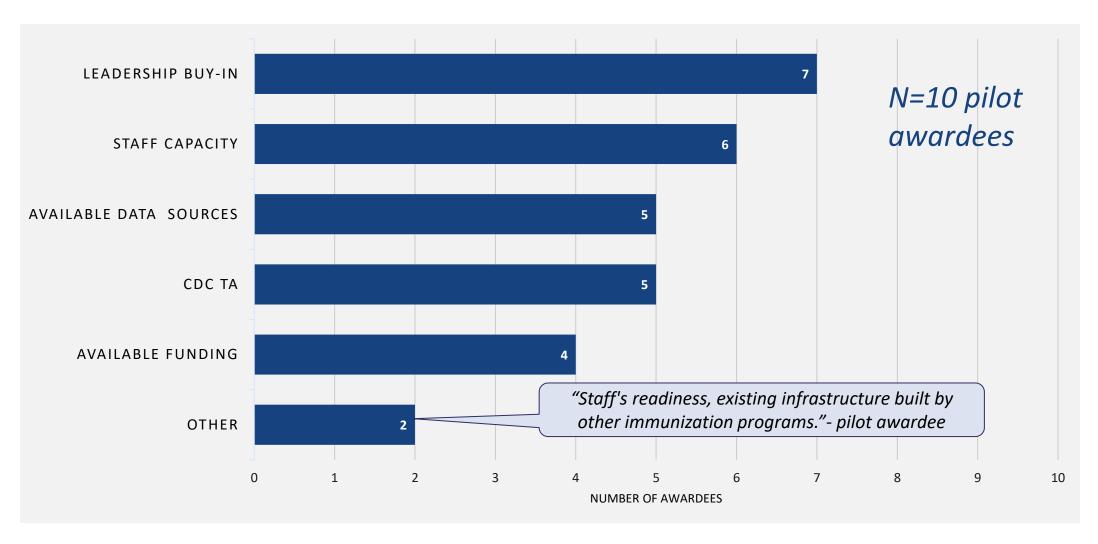
#### **Pilot Participant Selected Domains**

Total number of pilot awardees (n)=10



#### Pilot Highlights: Post-pilot Survey (Facilitators)

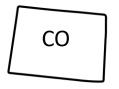
**Overall Pilot Program Experience Question 5** "What factors contributed to your jurisdiction's ability to apply the Framework and develop a plan for addressing gaps? (select all that apply)"



#### **Taking Action!**



Leveraged IIS expertise and cross-collaborated among staff to compile a list and map adult providers who were and were not reporting to the IIS.



Used locally available data to understand and improve their adult provider network.



Built internal capacity for staff working on adult vaccination, including training materials, and guidance from their VFC program and IIS teams.



Leveraged interdepartmental staff collaboration to support their adult Immunization program efforts.

#### **Taking Action!**



Integrated adult immunization activities into their provider compliance.



Expanded training /CE opportunities to adult vaccine providers.



Developed goals and explored data sources as well as used data to examine adult provider enrollment and network.



### Adapting the CDC VFA Framework in Tennessee

AIM Leadership in Action Conference – Dec 12, 2024

# **Disclosures**

• I have no conflicts of interest to disclose

# Overview

- A recent history of 317 in Tennessee
- Status of the CDC Adult Immunization Program Framework
- Our programmatic perspective

# 2019: No private providers received 317funded vaccine



No private providers received 317-funded vaccine













Required

C3-RA2

This activity DOES NOT APPLY: In Tennessee, private providers only receive VFC vaccine. The 317 vaccine is only available at local health departments for uninsured and underinsured adults.

#### 2019:

No private providers received 317-funded vaccine













#### 2020:

expanded
317-funded
flu vaccine to
private
providers



#### 2019:

No private providers received 317-funded vaccine

#### 2021:

Retained Adult Flu providers













#### 2020:

expanded
317-funded
flu vaccine to
private
providers



#### 2019:

No private providers received 317-funded vaccine

#### 2021:

Retained Adult Flu providers













#### 2020:

expanded
317-funded
flu vaccine to
private
providers

#### 2022:



#### 2019:

No private providers received 317-funded vaccine



Retained Adult Flu providers

#### 2023:

Applied for VFA Pilot!













#### 2020:

expanded
317-funded
flu vaccine to
private
providers

#### 2022:



#### 2019:

No private providers received 317-funded vaccine



Retained Adult Flu providers















#### 2020:

expanded
317-funded
flu vaccine to
private
providers

#### 2022:



#### 2019:

No private providers received 317-funded vaccine

2021:

Retained Adult Flu providers 2023:

Bridge Access
Program
recruitment













#### 2020:

expanded
317-funded
flu vaccine to
private
providers

#### 2022:



#### 2019:

No private providers received 317-funded vaccine



2023:

Bridge Access
Program
recruitment













#### 2020:

expanded
317-funded
flu vaccine to
private
providers

#### 2022:

Developed 317 provider enrollment process

#### 2024:

Supplemental VFA Framework



# **Applying the VFA Framework**

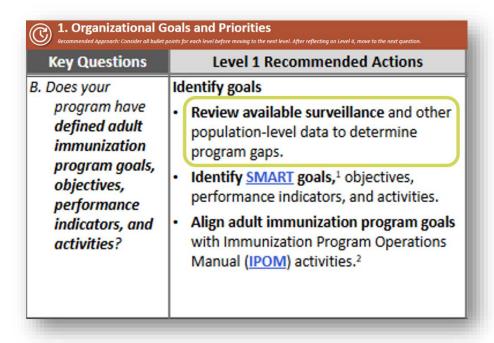
Goal: To achieve a state of readiness for scale-up of VFA in Tennessee





# **Domain 1 – People and Providers**

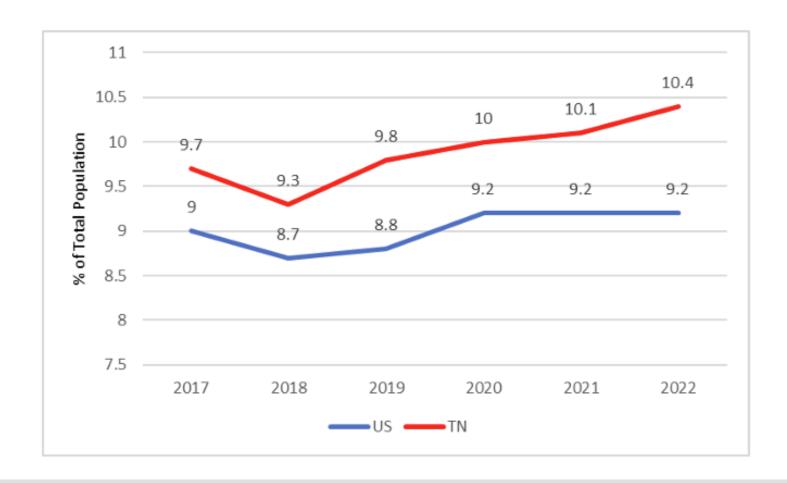
- Better understand our eligible adult population
- Assess areas of low adult vaccination coverage
- Prioritize VFA enrollment:
  - HRSA-supported health centers/FQHCs
  - Community and Faith-Based Clinics (CFB)





# **Domain 1 – People and Providers**

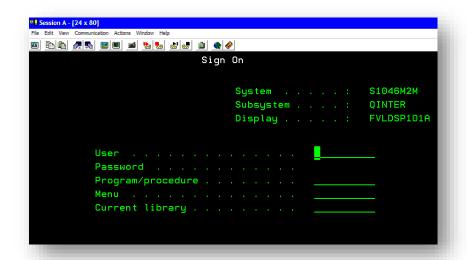
Figure 1: Uninsured Adult Population Proportion, United States and Tennessee, 2017 – 2022





# **Domain 5 – IIS Data Quality**

- Our IIS receives insufficient data for automatic decrementing from 97% of our current 317 providers
- Previous attempts to replace the EHR used in Health Departments were unsuccessful



Data quality issues were accentuated by Bridge Access Program reporting



# **Domain 5 – IIS Data Quality**

# **Existing 317 Providers**

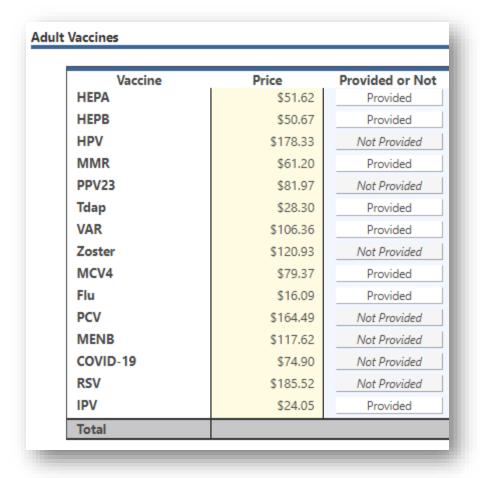
- 1. Assess interface health
- 2. Update outdated interface documentation
- 3. Present to leadership
- 4. Develop strategies to improve data reported by health departments

### **Future VFA Providers**

- Add 317/Funding Source verification to data quality reviews
- 2. Including funding source breakdown in provider-facing "Report Cards"



# Domain 2 – Vaccines, Access, Equity



- Our largest barrier is \$\$
- Monthly threshold distribution model
  - Successful
  - Manual 알
  - Equity

# Domain 2 - Vaccines, Access, Equity

How would we modify our 317 spend plan and adult provider order set(s)?

- 1. Compile historical allocation approaches:
  - Flu pre-order
  - RSV (both seasons)
  - COVID-19 supplemental
  - Current monthly threshold model
- Equity
- More \$\$



# **Challenges to Adapting the Framework**

- Conceptual framework, while structured, did not contain concrete examples for our program
- It took a while for our approach to gel with our team
- Stressed programmatic silos



# **Celebrating Small Victories**

- The process has helped us break down knowledge barriers across teams
- We changed our approach: small working sessions by domain groups, monthly full group updates
- Building sustained knowledge base for VFA

# Acknowledgements

Rana Zakaria Caitlin Newhouse Nena Bowman Cacky Tate Rachel Banik Alex Hayes Michelle Hansen Susan Copeland Christina Clapp Georgia Lynn Whalen Ashley Pasquariello
Stephanie Yelling
Shelby Davis
Madison Toney
Nicole McGoodwin







# Thank you!

Marie.Hartel@tn.gov

# Using CDC's Adult Framework Colorado's Experiences

AlM Leadership in Action Conference December 11, 2024

Heather Roth, MA Immunization Branch Chief Division of Disease Control and Public Health Response



#### Outline

- Piloting the CDC Adult Framework
- Successes and challenges
- Moving forward with the Framework



- Colorado participated in the Adult Framework Pilot from January - May 2024.
- Seven staff members assessed Colorado's adult immunization program using the Framework.
- Our team successfully worked through the Framework and agreed upon three gaps to address during the pilot, all from Domain 1 (Organizational Goals and Priorities).



- Mission statement specific to adult immunization program activities.
  - After comparing pros/cons of an adult-specific mission statement, we felt that a combined mission statement is stronger than two separate mission statements.
  - Next steps include sharing the mission statement with internal and external partners.



- Defined adult immunization program goals, objectives, performance indicators, and activities.
  - Identified goals, objectives, and activities already included in CoAg work plan.
  - Explored national adult vaccination goals (HEDIS, Healthy People 2030).
  - Next steps include data analysis on adult vaccine coverage in Colorado using the IIS, identifying gaps, visualizing data, and sharing with partners by June 30, 2025.



- Identify policymakers/partners to support adult immunization goals, objectives, performance indicators, and activities.
  - Attended the AIM Regional Vaccine Access Collaborative in June 2024.
  - Identify adult provider networks including maternal providers/ provider organizations.
  - Begin building the foundation of the adult immunization program by attending NAIIS, the CDC maternal reverse site visit, and engaging the Adult Vaccine Access Coalition to scan for adult immunization policies and learn how to integrate adult standards into the adult vaccine program.



- Using the Framework increased our awareness of the current state of our adult immunization program.
- We were able to identify gaps in our existing program and used the Framework to provide a structured template for future planning.
- The pilot gave us the opportunity and foundation to move forward with the adult supplemental funding opportunity; building upon the momentum initiated since the pilot.



#### Challenges of the Framework

- We found the CDC-provided assessment workspace document difficult to use due to the vertical format
  of the layout. We reformatted the assessment workspace document to better fit our needs in a more
  horizontal format. We added columns for additional documentation including barriers, resources
  needed, staff responsible, action items, and completion date.
- The biggest challenge or barrier when applying the Framework during the short pilot timeframe was time. Competing priorities with other projects, including managing several outbreaks simultaneously and completing our CoAg application and COVID carryover request, limited the amount of dedicated time we had to work on this project.



- The pilot period was short, so we didn't get to address all key questions within each domain. It would take a dedicated staff person, as well as additional staff time from the various units within the Branch to make it through the entire Framework.
- The recommended actions included in the Framework for each domain were not feasible within the pilot timeframe. They would be feasible only with additional resources, funding, and time.
- Adult immunization activities are difficult to implement without adequate funding for a Vaccines For Adults program or expanded 317 funding.
   We're building the program, but without vaccines it can seem futile!



- Colorado received the adult supplemental funding to expand upon its pilot work.
- For us to fully realize the steps outlined in the Framework, it will be critical to employ an Adult Immunization Framework Coordinator. This Coordinator will be a dedicated resource to move the adult immunization framework forward and make progress in achieving the defined strategies to grow our adult immunization program.



# Major strategies included in our adult work plan:

- Continue to assess Colorado's adult immunization program using the Adult Immunization Program Framework.
- Build, maintain, and expand a network of adult vaccine providers.
- Develop or improve provider compliance program structure or processes.
- Maintain or improve adult vaccine provider usage and engagement with the Colorado Immunization Information System.









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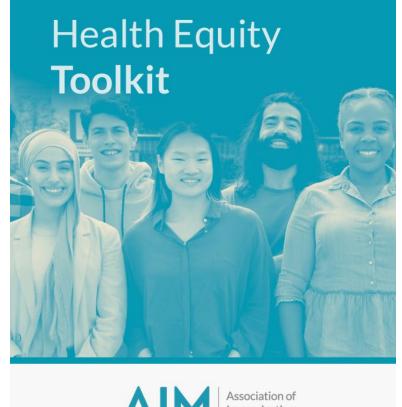


Association of Immunization Managers

# **Adult Immunization Resources**

Visit the Adult Immunization Resource page on AIM's member-only website section to explore toolkits, best practices, and actional resources designed to support your program's success.

- Resources include:
  - Health Equity Toolkit: Offers strategies and insights to help immunization programs and partners advance equity in vaccine administration and distribution.
  - Member Assistance Program (MAP) Adult **Immunization Business Operations Toolkit:** Provides practical resources to support daily operations of adult immunization programs such as staffing, drafting requests for proposals (RFPs), budgeting, and other activities that help programs achieve their goals.





# Thank you!



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