

### Overview

- Provider outreach initiative
- Foundational program development in late 2019
- Response to \$\Pi\$ vaccination rates and \$\Delta\$ exemption rates
- Program interrupted by COVID-19 pandemic in 2020
- Program re-initiated in 2023



# Public Health Detailing defined



## Detailing defined

Public Health Detailing is an evidence-based strategy to encourage clinical practice change through brief, educational, one-on-one provider interactions.



## Detailing defined

#### Desired program outcomes:

- Relationship development
- Information sharing
- Increased or improved clinical best practices
- Increased immunization rates



## Program objectives

- Develop a Public Health Detailing Program with at least 50 high impact immunization providers.
  - High impact provider: More than 50 kindergarten age patients and MMR vaccination coverage rate below 80%.



## Project focus

- Short term focus: Work with providers to improve IIS
   patient management practices to increase the number of
   current kindergarten age patients who are up-to-date for
   MMR.
- Long term focus: Enhance overall kindergarten readiness vaccination practices to increase and sustain immunization rates over time.



#### Clinic selection

- 66 clinics with more than 300 kindergarten age patients.
  - 41 clinics with less than 80% up-to-date MMR coverage rate.
  - More than 25% of the clinics were from a single county.
- Additional clinics included had more than 50 kindergarten age patients and less than 80% up-to-date MMR rate.



## IQIP + PH Detailing

- PH Detailing added as a customized Immunization Quality Improvement for Providers (IQIP) strategy.
- During project year five (2023-24), providers received the option to participate.
  - 97 out of 120 IQIP enrolled providers opted to participate.
- During project year four (2022-23), providers were invited to participate in PH Detailing if provider selection criteria was met.
- 26 out of 151 PH Detailing enrolled providers were not dual enrolled in IQIP.



## Public Health Detailing dashboard



#### Public Health Detailing

The baseline cohort includes 2023-24 Kindergarten-aged patients in the Colorado Immnization Information System (CIIS) (turned five years old after Oct. 1, 2022 and will turn five years old on or before Oct. 1, 2023) who were active at the clinic and jurisdiction level. Baseline cohort inclusion, MMR status, and DTaP status were evaluated on July 1, 2023. Current cohort inclusion, MMR status, and DTaP status were evaluated on May 17, 2024. Because the current cohort is based on an updated evaluation of active patients in CIIS, the total number of Kindergarten-aged patients included in the current cohort may differ from the total number included in the baseline cohort.

The accuracy of MMR and DTaP rate estimates is dependent on the completeness and accuracy of the data in CIIS. Missing vaccinations in CIIS will impact the resulting rate estimates. Also, due to out of date clinic statuses in CIIS, the number of active patients assigned to a clinic in CIIS may not accurately represent the true clinic patient population.

Select a clinic from the menu below. Graphs are click to download.

ARDAS FAMILY MEDICINE (1633, Arapahoe County)

ARVADA PEDIATRIC ASSOCIATES NORTH (641, Broomfield County)

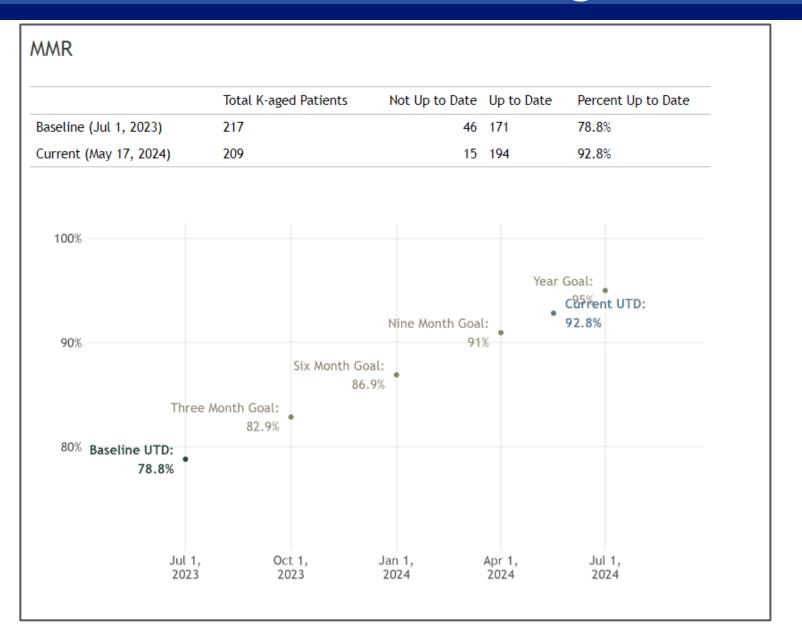
ARVADA PEDIATRIC ASSOCIATES, PC (720, Jefferson County)

ASPEN PARK PEDIATRICS (430, Jefferson County)

ASSOCIATES IN FAMILY MED FOXTRAIL (1030, Larimer County)



## Public Health Detailing dashboard example





## Public Health Detailing clinic population datasets

#### Clinic Population

519 Kindergarten-aged patients are assigned to ADVANCED PEDIATRIC ASSOCIATES CENT (154, Arapahoe County) in CIIS. A clinic population dataset is available for

download.

#### Reminder

Test

19 patients who are New up to date for MMR and/or DTaP are available for Reminder/Recall outreach (18 both, 1 MMR only, and 0 DTaP only). A Reminder/Natl dataset is available for

download.

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id	TITST_Harrie	last_name	10/5/2017	9/14/2022	UTD	UTD	N	NA NA	NA	NA	45
	Sally	Test	8/15/2018	1/2/2024	UTD	UTD	N	NA	NA	NA	85
785	Bobby	Test	10/21/2017	1/26/2024		UTD	N	IVA			
875	5 Charles	Test	12/12/2017	1, ==,							



# What is included in a PH Detailing visit



## Public Health Detailing visit overview

#### 12 month program cycle

#### Visit 1

- General overview of program
- Review key issues
- Review CIIS patient association and inactivation
- Discuss providerlevel data and provide relevant reports

#### Visit 2

- Review current provider-level data
- Review clinic progress
- Discuss CIIS best practices
- Discuss strategies to optimize CIIS functionality

#### Visit 3

- Review current provider-level data
- Review clinic progress
- Discuss kindergarten readiness and best practices
- Review school immunization law and exemptions

#### Visit 4

- Share final providerlevel data
- Share schoolreported data, including provider's local county and school district data
- Provide additional resources



## Initial provider communication

#### Metadata

To

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Current cohort inclusion, MMR status, and DTaP status were evaluated on \*\*\*

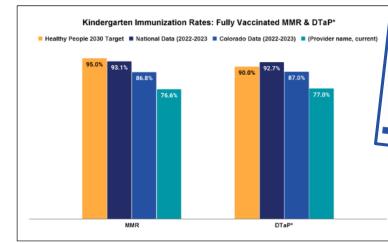
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The accuracy of MMR and DTaP rate estimates is dependent on the completeness and accuracy of the data in CIIS. Missing vaccinations in CIIS will impact the resulting rate estimates. Also, due to out of date clinic statuses in CIIS, the number of active patients assigned to a clinic in CIIS may not accurately represent the true clinic patient population.

#### Current Clinic-Level Data

(Provider Name)							
Data current as of May 22, 2024  Total kindergarten-aged patients associated with clinic in CIIS: 244							
							MMR
Up to Date	187	Up to Date	188				
Not Up to Date	57	Not Up to Date	58				
Percent Up to Date	76.6%	Percent Up to Date	77%				

\*Fully vaccinated = 5 valid doses of DTaP OR 4 valid doses of DTaP if dose 4 was administered at age 4 years or older, (State of Colorado 2023)



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#### AT-A-GLANCE FOR CLINICIANS:

Public Health Detailing project, a custom strategy to increase MMR and DTaP for Colorado's kindergarten-aged children

### PUBLIC HEALTH DETAILING 2023-2024

Educational outreach for immunizing providers to help support practice and encourage immunization best practices

The focus of this program is to increase MMR & DTaP rates in Colorado's Kindergarten-aged children

#### VISITS ARE:

- ≫ Virtual
- ≫ Set for 15 minutes
- Offered at convenient times
- One-on-one; providers receive information customized for their clinic

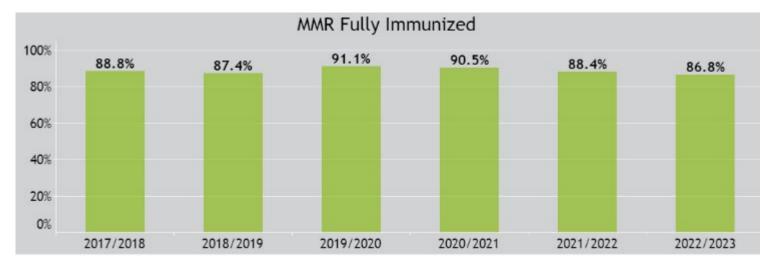
#### VISITS COVER:

- Review declining MMR and DTaP rates in Colorado's kindergarten-aged children
- >> Clinic/provider-level data
- » Kindergarten readiness and best practices
- Customized information and resources



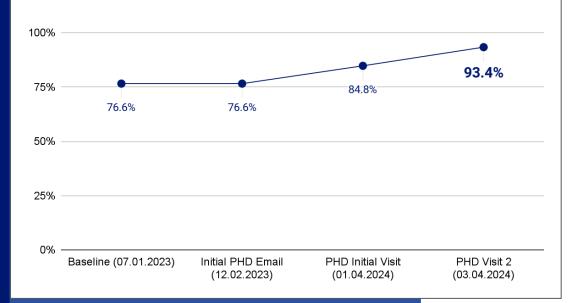
## Background - Colorado kindergarten vaccination rates

- Colorado Board of Health rule requires schools and childcares to report immunization and exemption data to CDPHE annually.
- School reported data show kindergarten vaccination rates in Colorado consistently below national averages.
- 2022-2023 school year showed the lowest kindergarten immunization rates since school immunization data has been collected in this format.

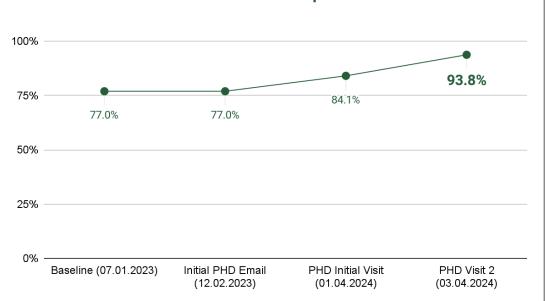




#### Provider-level CIIS data: Up to Date MMR



#### Provider-level CIIS data: Up to Date DTaP



#### Current provider-level CIIS Data

#### Colorado Provider

Data current as of May 22, 2024

Total kindergarten-aged patients associated to clinic in CIIS: 242

MMR		DTaP*		
Up to Date	226	Up to Date	227	
Not Up to Date	16	Not Up to Date	15	
Percent Up to Date	93.4%	Percent Up to Date	93.8%	

<sup>\*</sup>Fully vaccinated = 5 valid doses of DTaP OR 4 valid doses of DTaP if dose 4 was administered at age 4 years or older. (State of Colorado 2024)

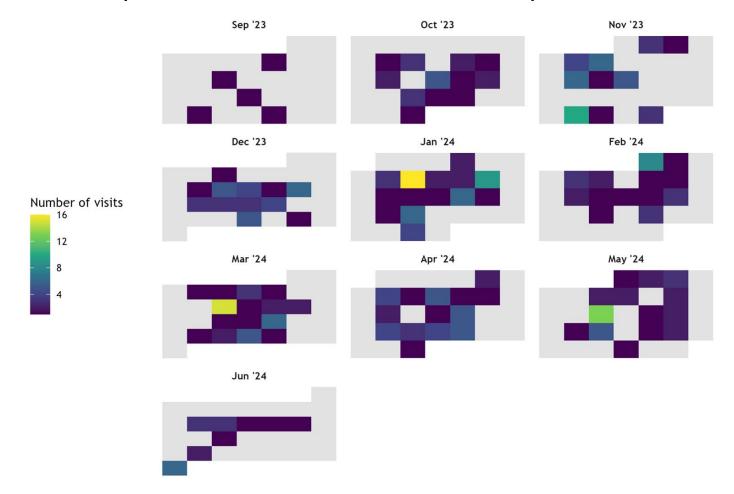


# Program evaluation / data



### Number of visits - high level summary visualization

- 151 clinics participated and received at least an initial visit
- PH Detailers completed 326 total visits between Sept. 7, 2023 and June 30, 2024



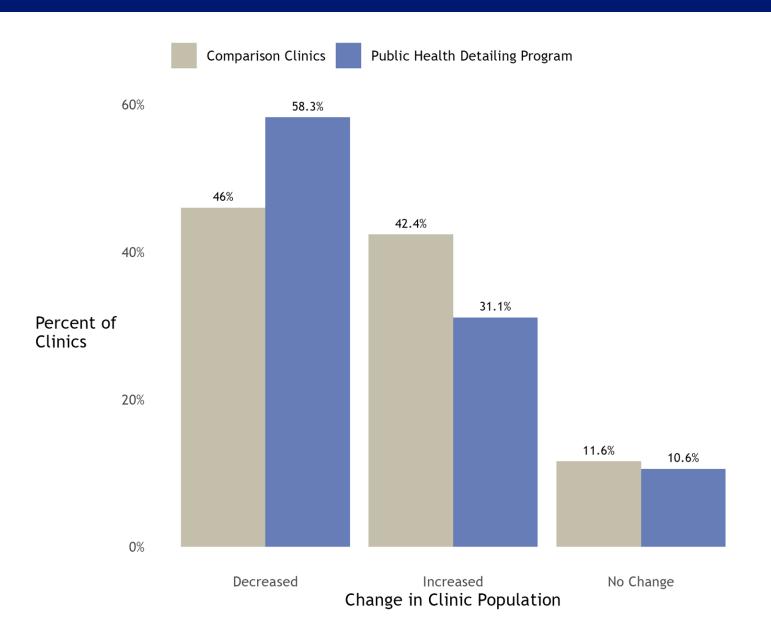


## Change in K-aged clinic populations

- 30,516 kindergarten-aged children belonged to the 151 clinics as of the baseline date.
- 29,032 kindergarten-aged children were assigned to the 151 clinics as of the most recent visit they received.
- 88 clinic populations decreased during the program, indicating that providers made efforts to clean up their active patient population. More accurate clinic populations in CIIS can help us more accurately estimate vaccination coverage rates using CIIS data.



## Change in clinic population

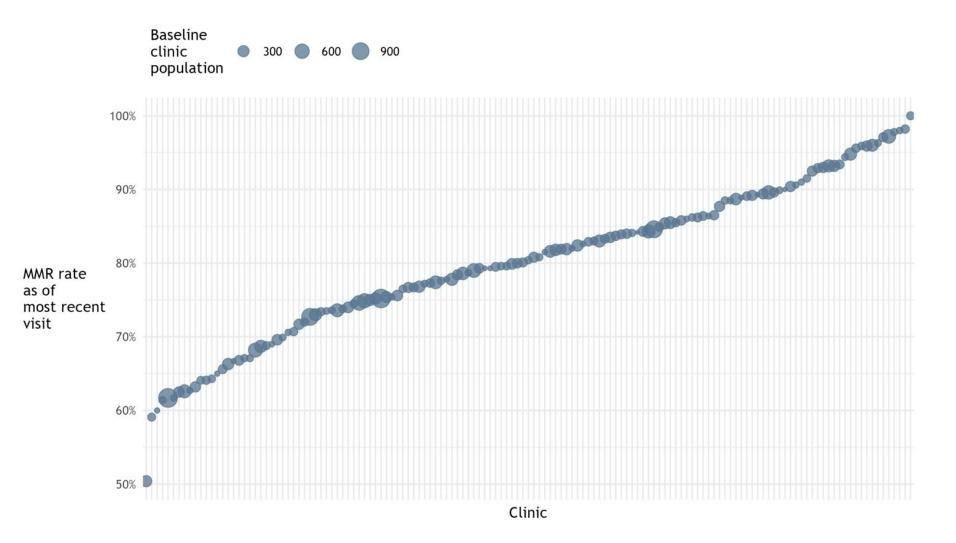


Compared to clinics who did not participate in the public health detailing program who had at least 50 kindergarten-aged children at baseline, a higher proportion of participating clinics experienced a decrease in their population in 2023-24.



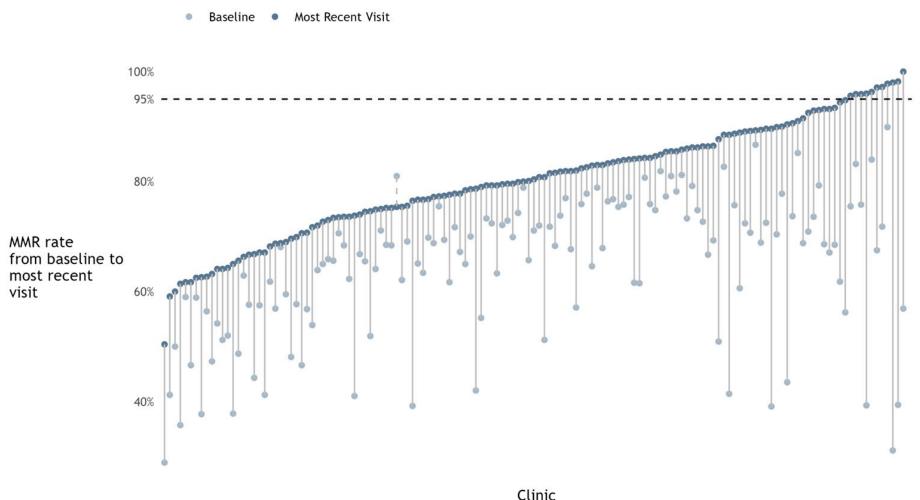
## MMR rate as of the most recent PH Detailing visit

11 clinics exceeded MMR rates of 95% as of their most recent visit. Rates ranged from 50.4% to 100%.





## MMR rate change from baseline to most recent visit



Among clinic participants with at least 50 kindergartenaged children at baseline, all but one clinic's MMR rates increased from baseline to the most recent visit. Rates increased by at least 1% and by at most 67%. One clinic's MMR rate decreased by less than 1%.

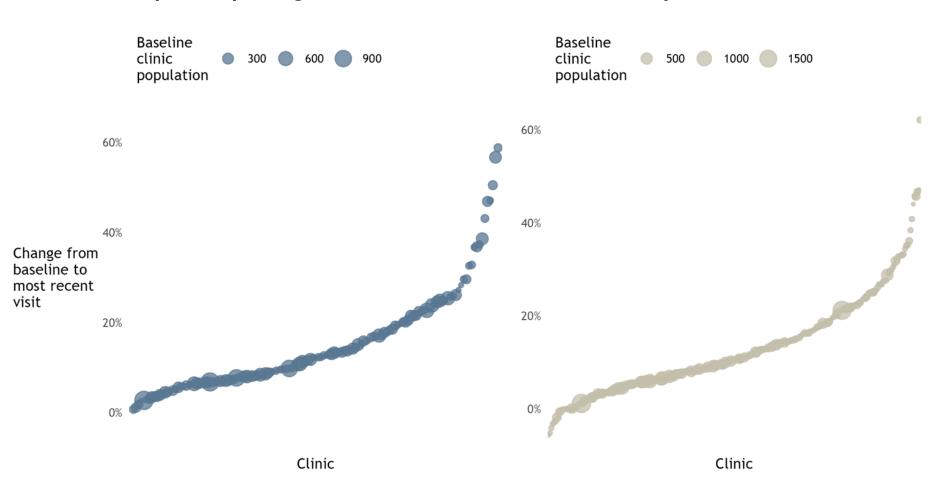




## Changes in MMR rates

#### PHD participating clinics

#### Comparison clinics



Changes in MMR rates didn't differ significantly among public health detailing projectparticipating clinics compared to clinics who did not participate during the same time period.



# Lessons learned and next steps



## PH Detailing as an IQIP customized strategy

#### Pros

 Ability to reach more providers with at least an initial visit.

#### Cons

- Difficult to maintain a quarterly visit approach.
- Some providers did not complete four PH Detailing visits by the end of 2023-24 project year.
- Less K-aged focused since IQIP visits focus on other strategies as well.



## Special thanks



## Special thank you

A special thank you to the following people who have made this program possible:

- Savannah Destefano Contract Nurse, Public Health Detailer
- Deb Zambrano IQIP Coordinator
- Heather Roth and Robin Trujillo Immunization Branch Chief/Deputy Branch Chief
- Rachel Severson- Data Unit Manager



