



The Current Landscape of Immunizations in Wisconsin

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Division of Public Health

Session Objectives

- Discuss current state of vaccine preventable diseases in Wisconsin.
- Discuss the current immunization rates in Wisconsin.
- Discuss current immunization challenges and opportunities.
- Provide an update on the current state of the Wisconsin Immunization Registry (WIR).



Vaccine Preventable Diseases (VPD)



VPD cases in 2024

Zero cases of

Diphtheria

Rubella/Congenital Rubella Syndrome

VPD cases in 2024

Cases of

Pertussis: 2,685

Hepatitis A: 29

Mumps: 5

Perinatal Hep B: 2

Varicella: 212

HiB (less than 5y): 1

Meningococcal: 7

IPD (less than 5y): 22

Tetanus 2

Measles: 1

Pediatric Deaths

2024–2025 Respiratory Season

RSV deaths in infants: 7

Pediatric influenza deaths: 4

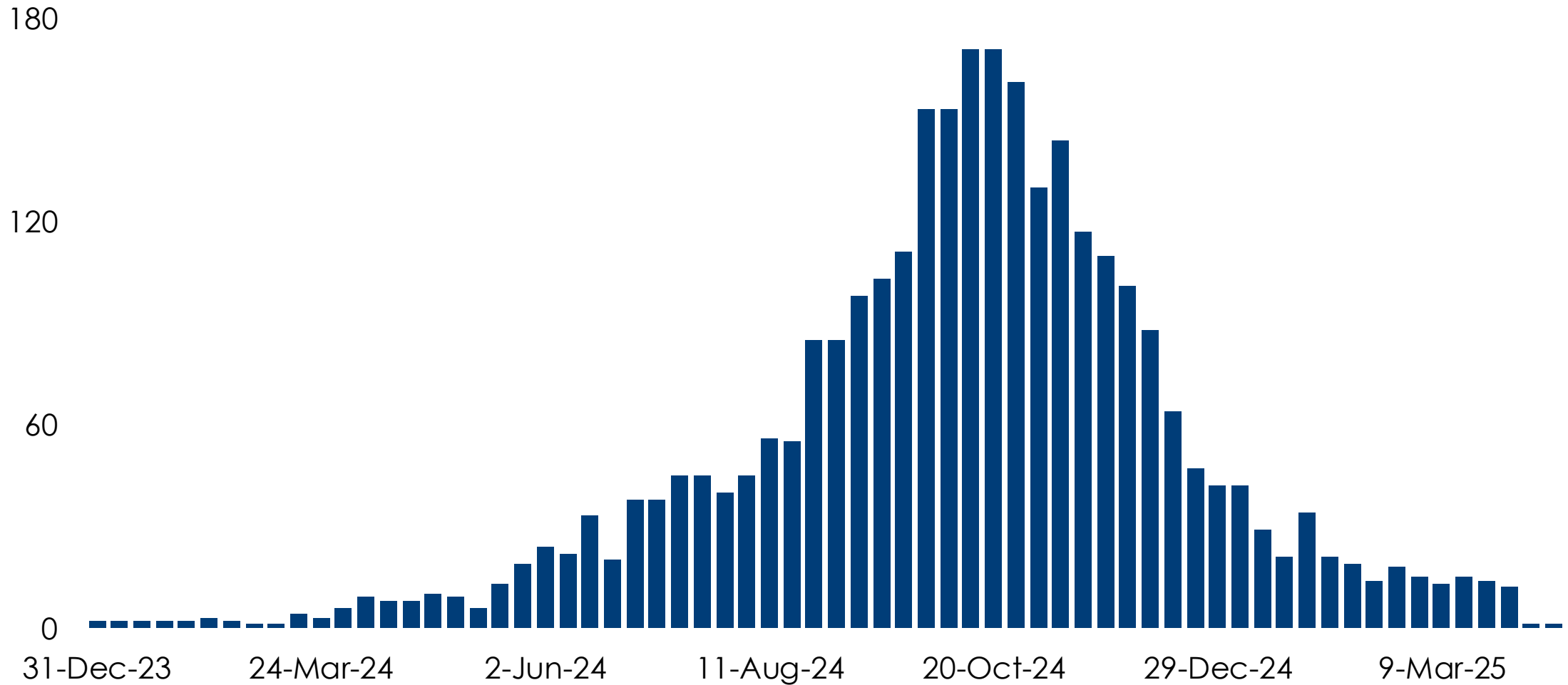


Pertussis



Pertussis in Wisconsin

January 1, 2024–April 19, 2025



Pertussis in Wisconsin

Updated 4/21/2025

Data by Week

Data by Age

Rate and Case Count

Select a Year

2024

Median Age of Cases

14 years

Age Range of Cases

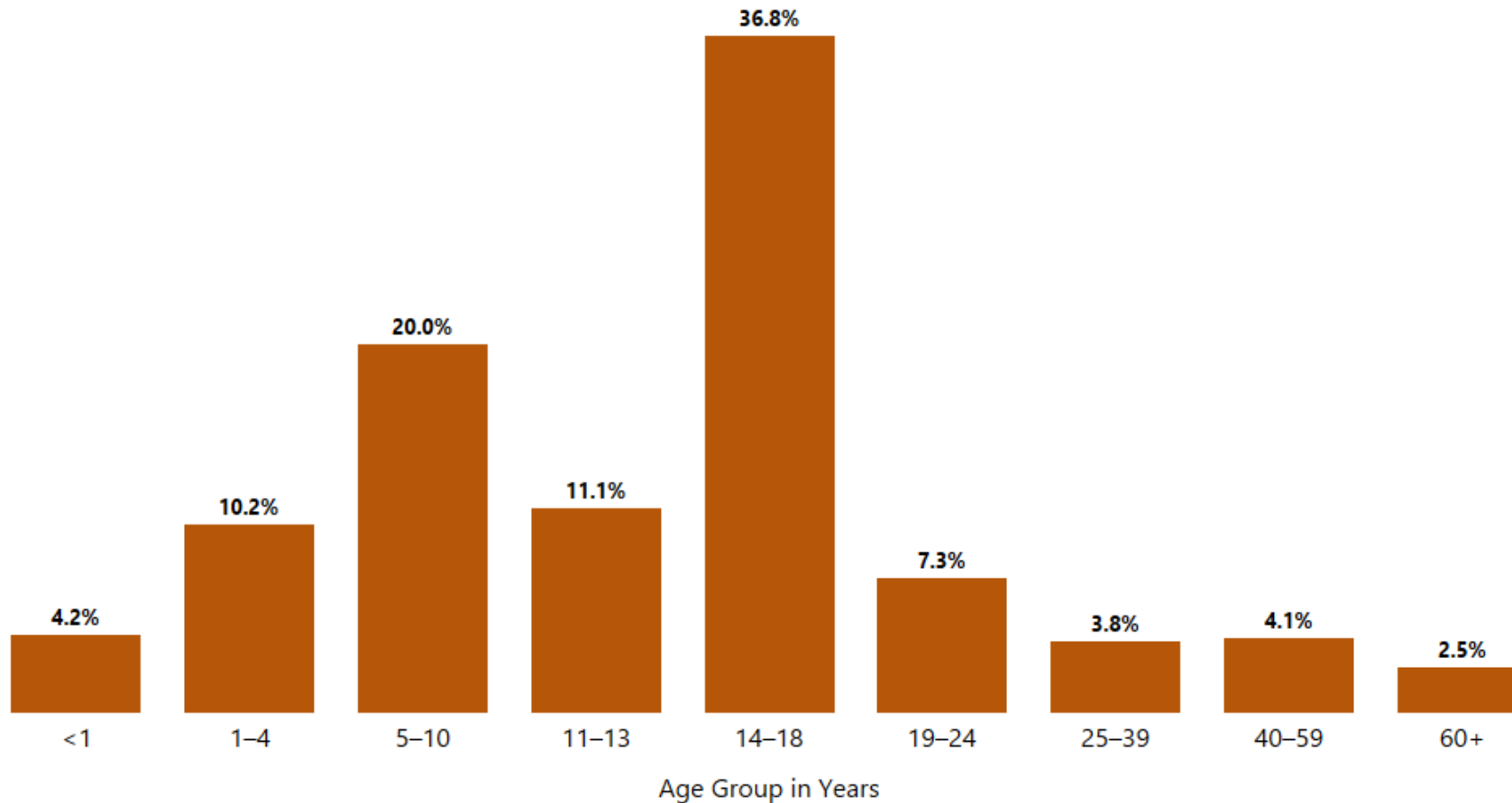
0 months–92 years

Cases <1 Year Hospitalized

16

Pertussis Case Counts by Age Group

The **orange** bars represent case counts for each age group.

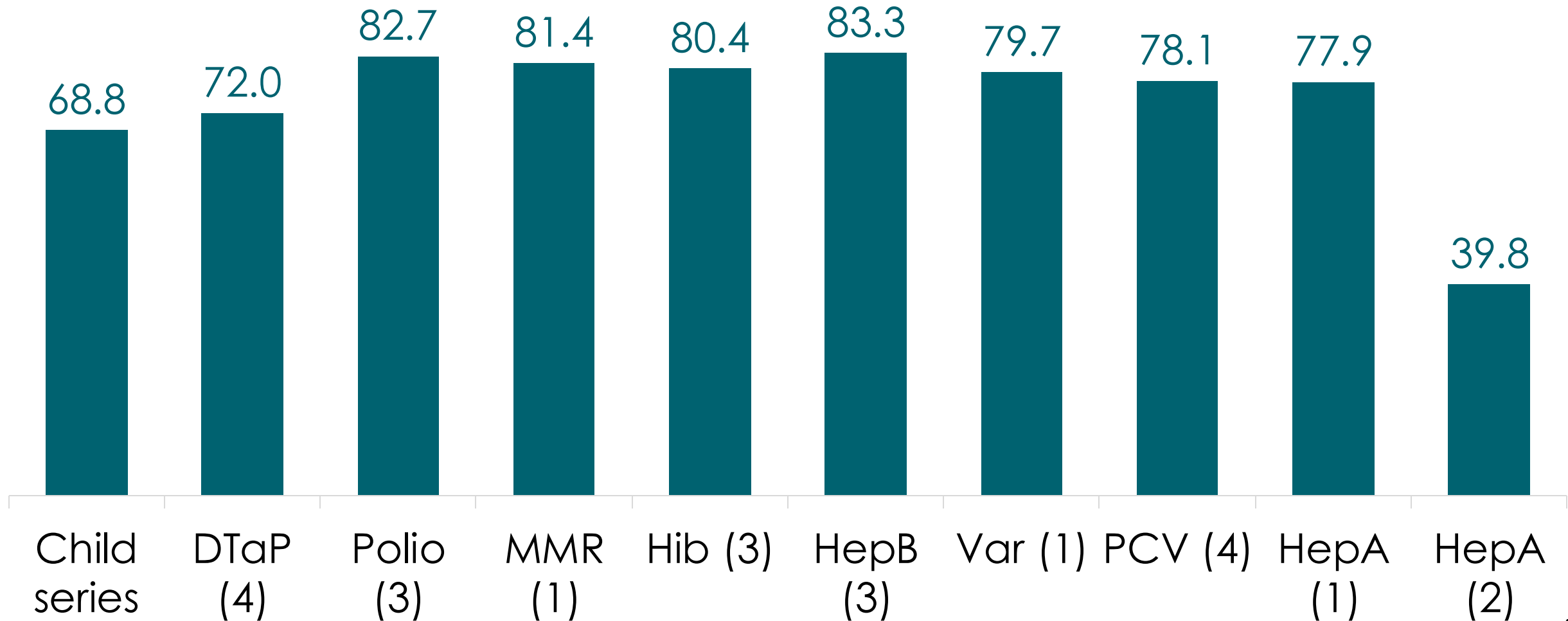




Childhood Vaccination Data



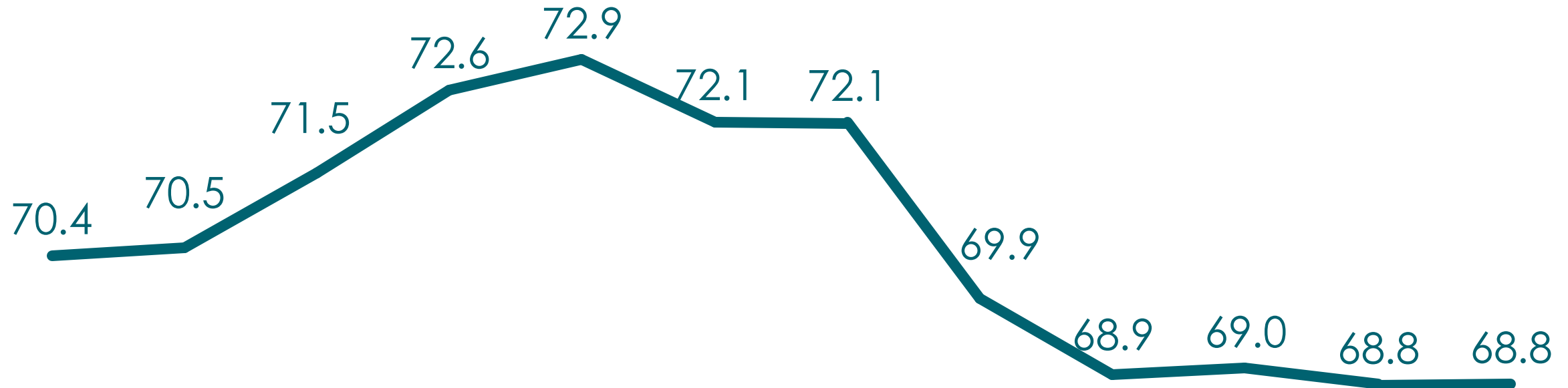
Vaccination Coverage by 24 Months, 2024



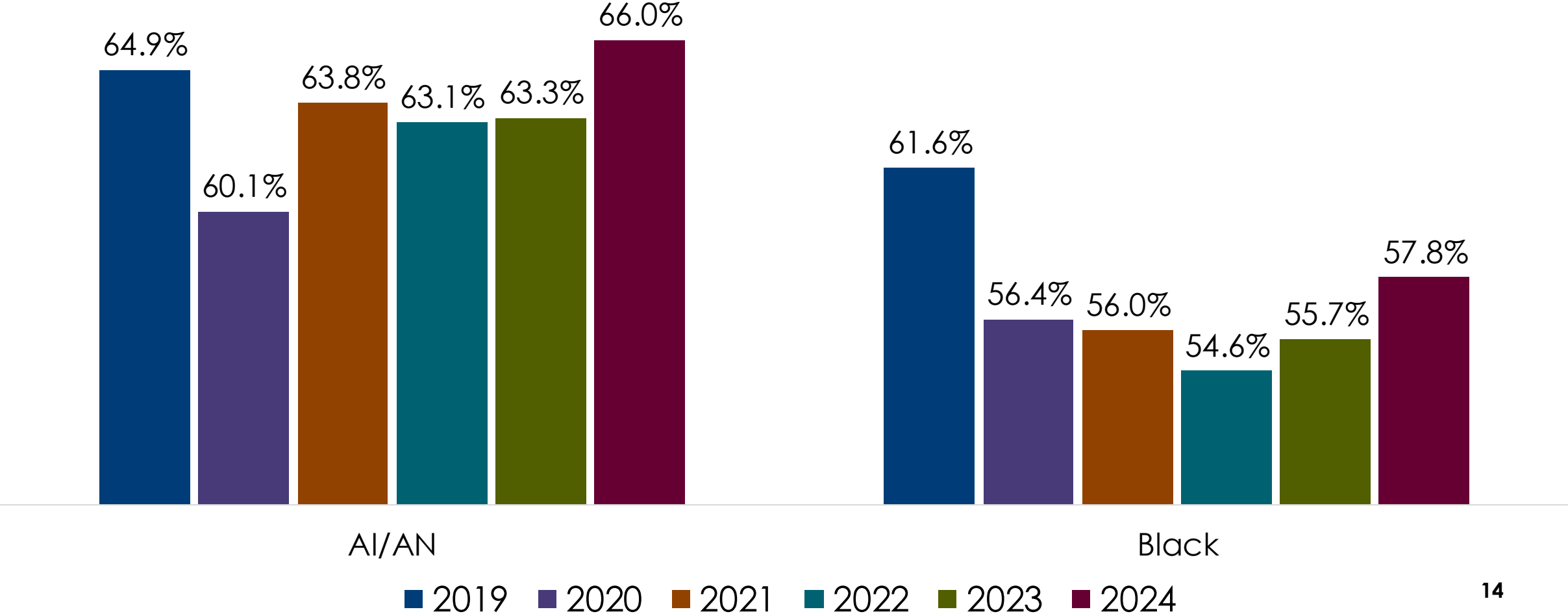
Difference Between 2023 and 2024 24-Month-Old Vaccination Rates

- Child series: ➡ 0%
- MMR(1): ↓ -0.2%
- DTaP(4): ➡ 0%
- Polio(3): ↓ -0.5%
- Hib(3): ↓ -0.2%
- HepB(3): ↓ -0.5%
- Varicella(1): ↓ -0.4%
- PCV(4): ↓ -0.3%
- HepA(1): ↓ -0.3%
- HepA(2): ↓ -0.1%

Child Series Vaccination Coverage by 24 Months, 2013–2024



2024 24-Month-Old Vaccination Rates by Race



24-month Child Series Rate, 2024 by Race



*American Indian, Alaska Native, Indigenous, or Native American

**Asian, Native Hawaiian or Pacific Islander

24-month Child Series Rate, 2024 by Race

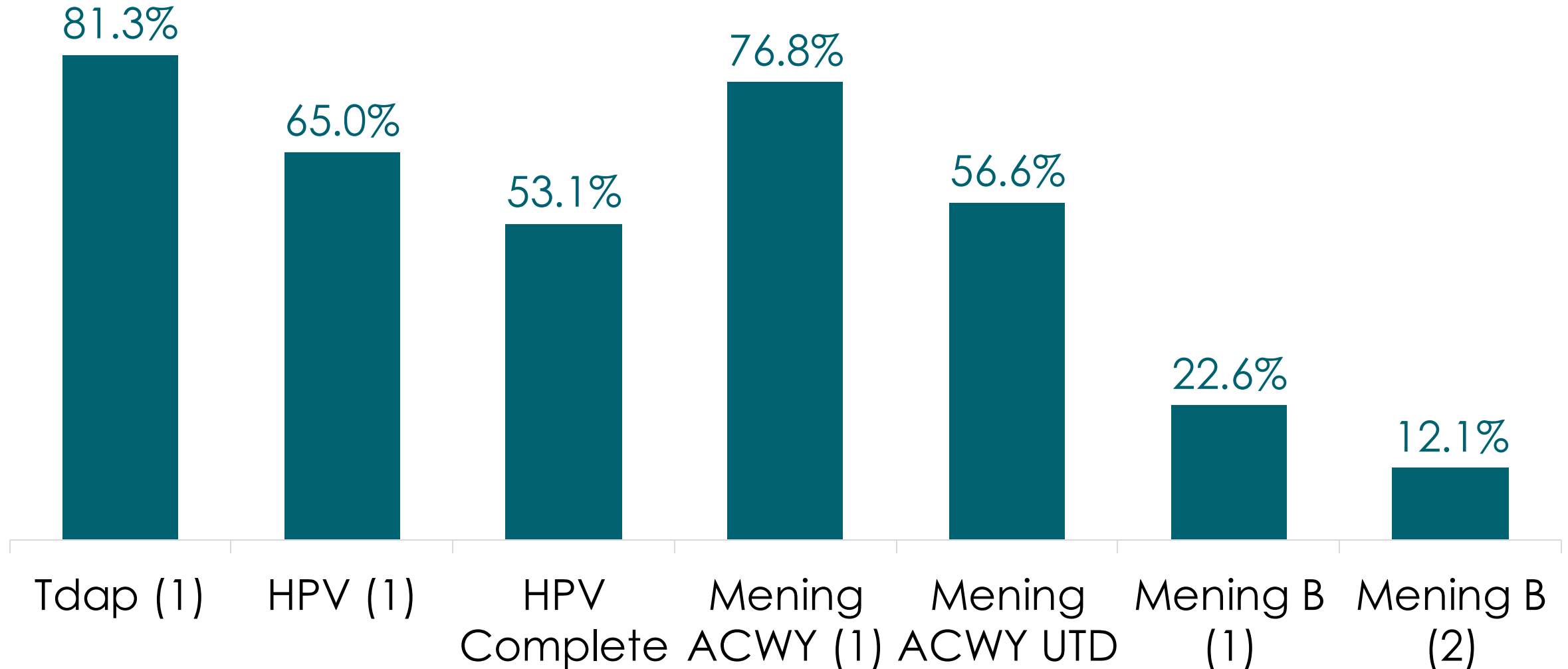




Adolescent Vaccination Data



Adolescent Vaccination Coverage, 2024



Difference Between 2023 and 2024 Adolescent Vaccination Rates

- HPV(1): ↓ -0.2%
- HPV Complete: ↑ 0.1%
- Tdap(1): ↓ - 0.6%

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- HPV(1): ↓ -0.2%
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- Mening ACWY (1): ↑ 0.2%
- Mening ACWY (UTD): ↑ 5.3%
- Mening B(1): ↑ 0.9%
- Mening B(2): ↑ 0.3%

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- **Mening ACWY (UTD): ↑ 5.3%**
- Mening B(1): ↑ 0.9%
- Mening B(2): ↑ 0.3%



School Requirements



2024–2025 School Requirements

Added meningococcal (MenACWY-containing) vaccine for students entering 7th grade and a booster dose for eligible students entering 12th grade.

Parent report of chickenpox disease is no longer acceptable for exemption from the varicella (chickenpox) vaccine.

2024–2025 School Requirements

Definition of “substantial outbreak” updated for both childcare and schools to align with CDC definition.

Added chickenpox and meningococcal disease to the outbreak definitions.



MMR



2024 MMR Vaccination Rates-WI

81.4%

of **2-year-olds**
received at least
1 dose.

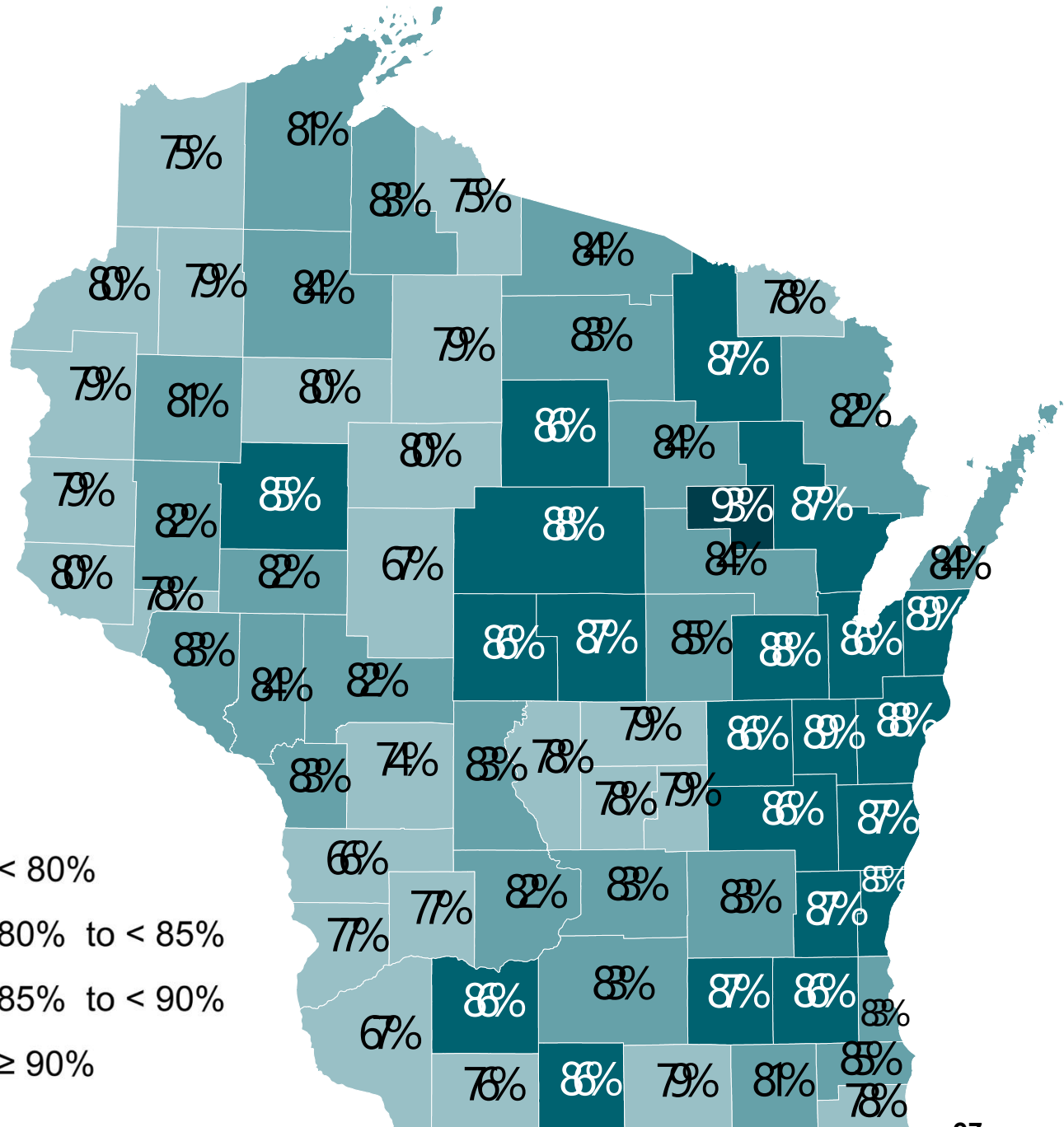
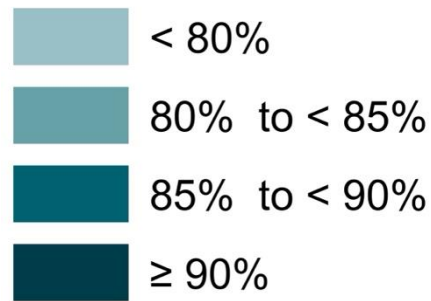


83.2%

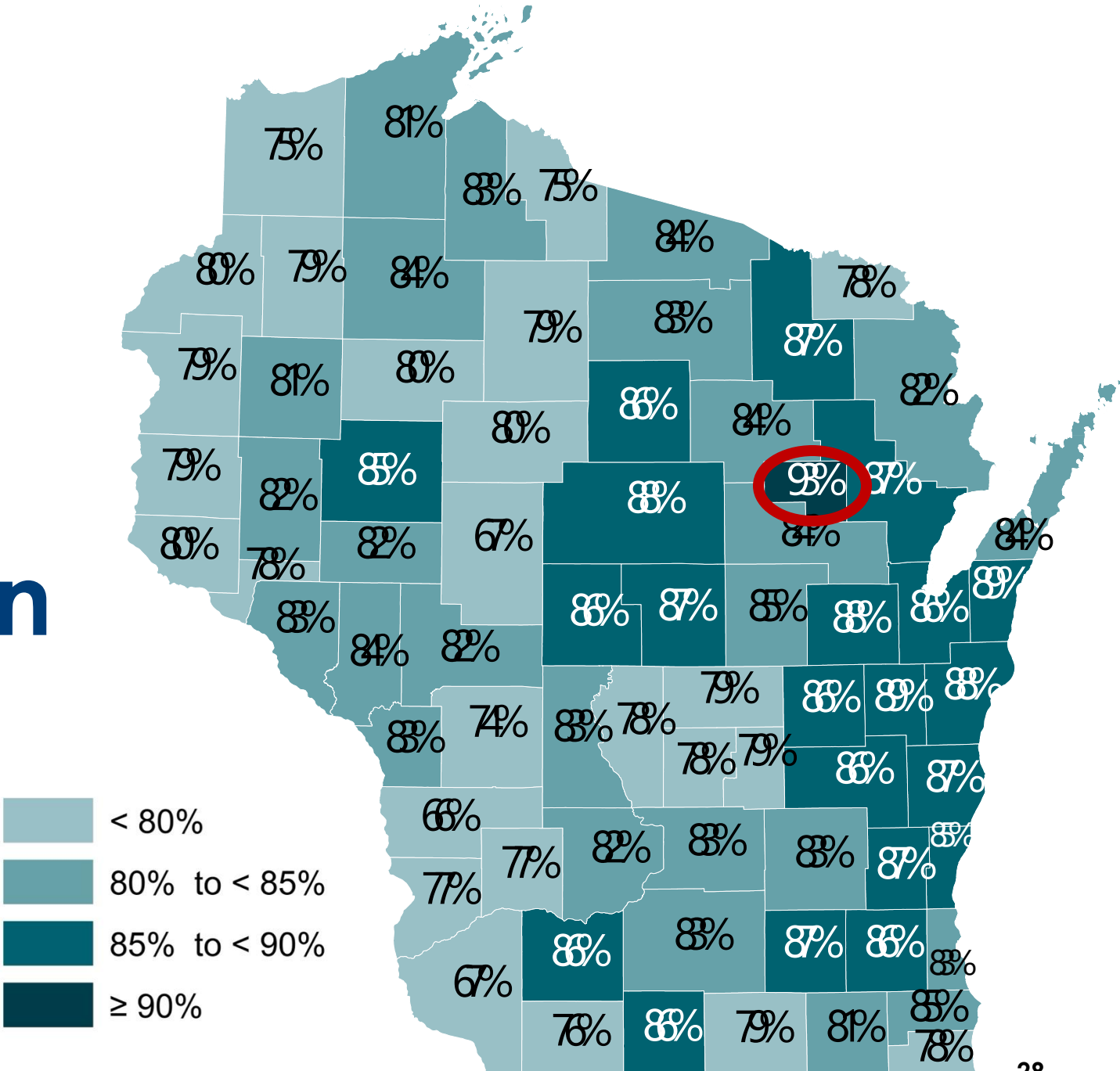
Of **5–18-year-olds** had received
at least 2 doses.



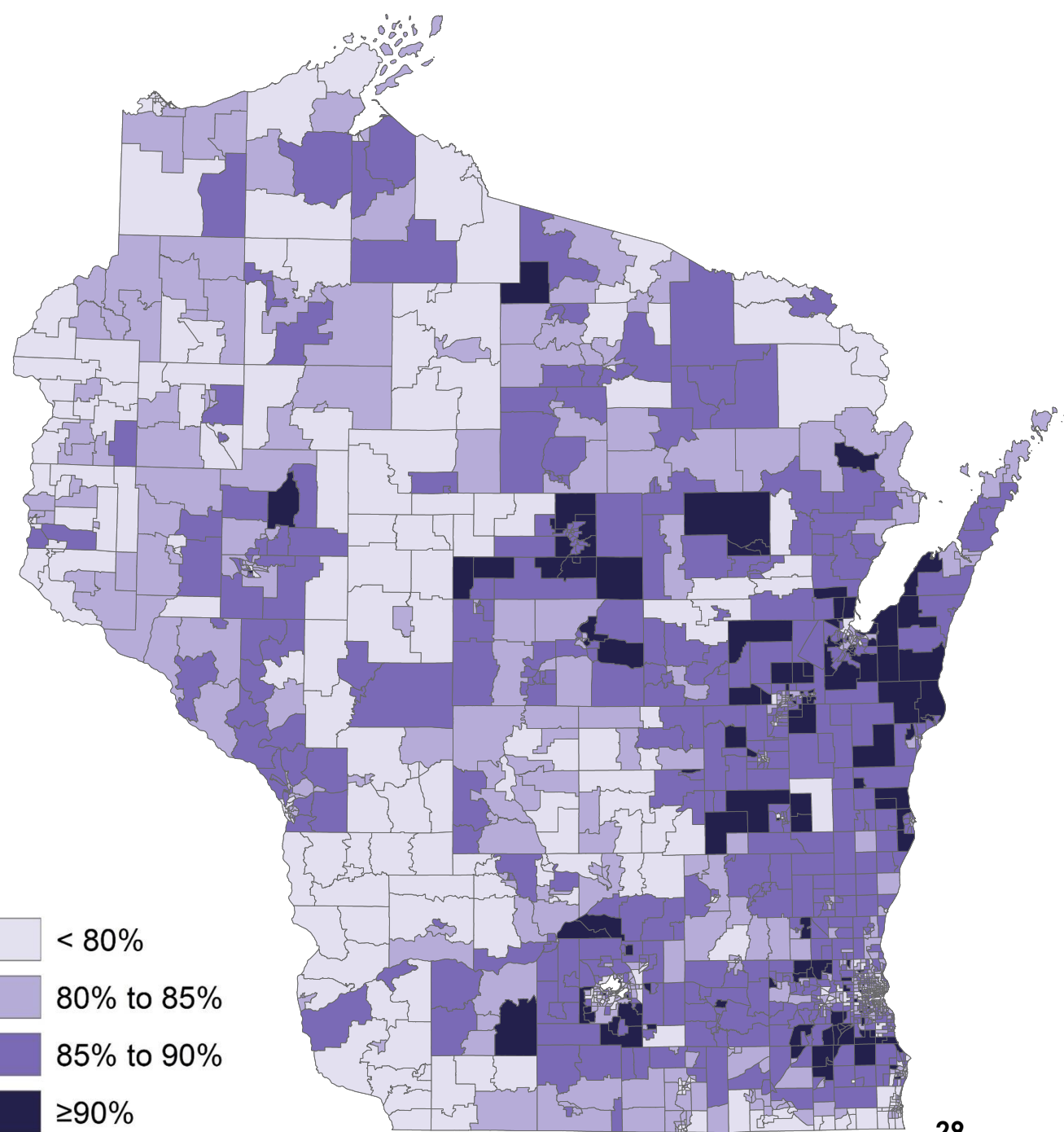
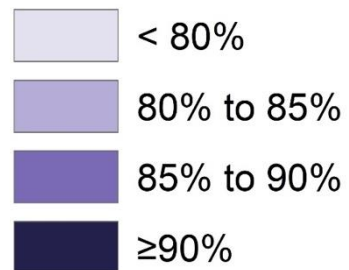
County 5–18-year-old MMR Vaccination Coverage, 2024



County 5–18-year-old MMR Vaccination Coverage, 2024

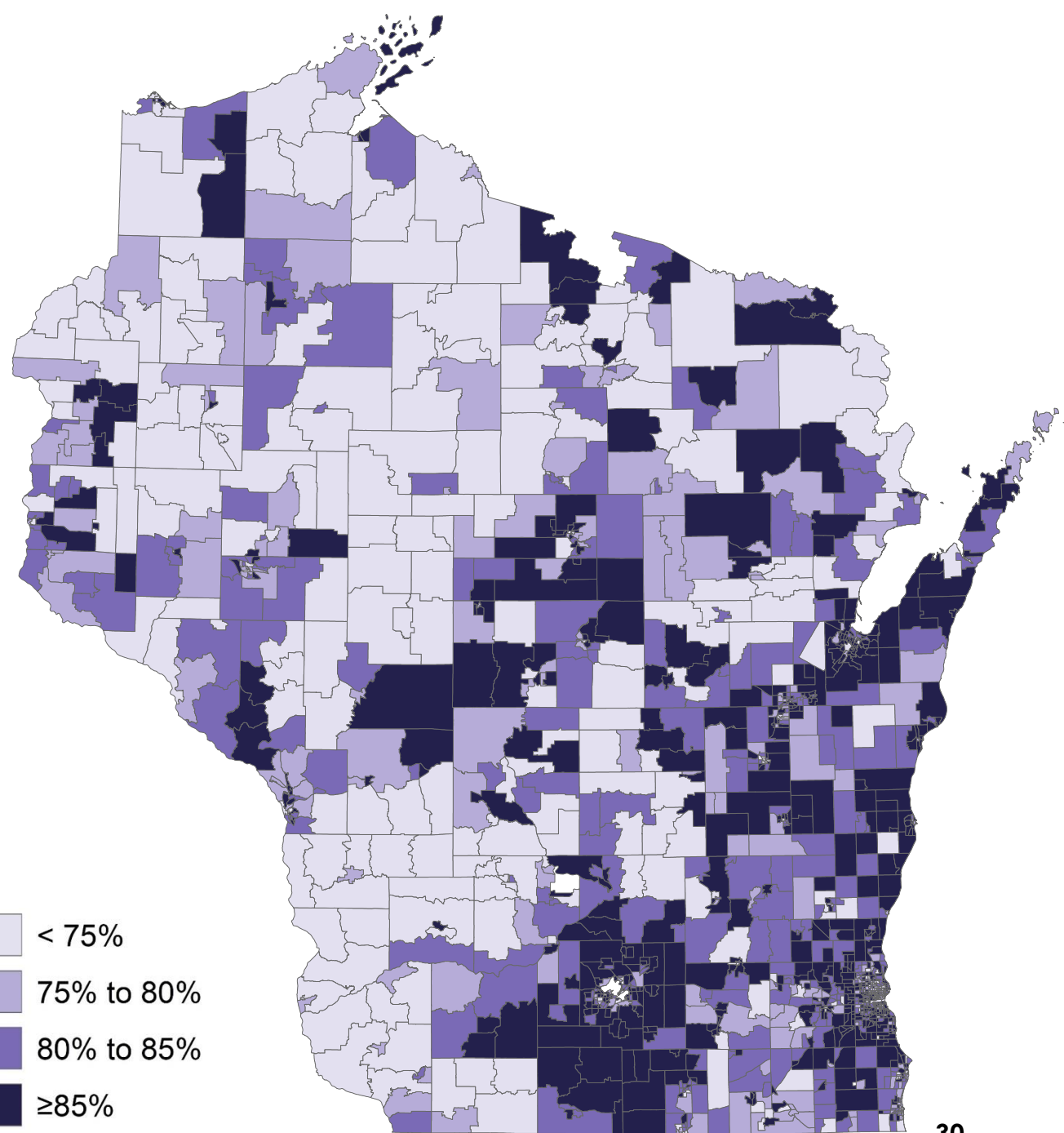
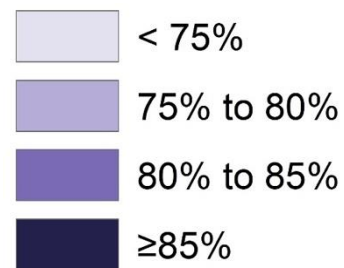


Census Tract MMR 5–18-year- old Vaccination Coverage, 2024

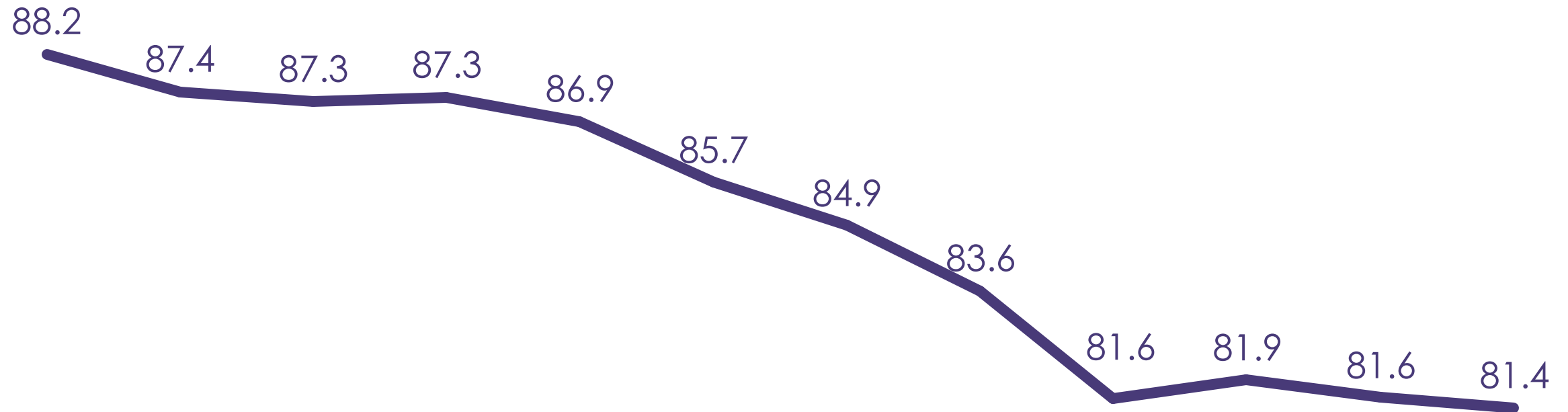


Census Tract MMR Vaccination Coverage by 24 Months, 2024

4% of census tracts had a
rate at or above 95%



MMR Vaccination Coverage by 24 Months, 2013–2024



Measles Vaccine

Measles vaccine has been used for over 50 years.

Over 575 million doses administered worldwide.

A young girl with blonde hair in pigtails is looking at the camera. She has colorful paint (yellow, orange, blue) smeared on her face, particularly around her eyes and nose. She is holding a green marker in her right hand. The background is blurred, showing what appears to be an art studio or classroom setting with an easel.

She thinks
“Measles”
are used for drawing
in art class.

**Childhood vaccinations
keep it that way**



Call to Action

Assess patients at every clinical encounter.

Reach out to those starting kindergarten this fall and schedule appointments now.

Regularly use the WIR or EMR to determine which patients are due or overdue for MMR.

Vaccinate!



Vaccines for Children



Vaccines for Children

Protecting America's children every day

The Vaccines for Children (VFC) program helps ensure that all children have a better chance of getting their recommended vaccines. VFC has helped prevent disease and save lives.



CDC estimates that vaccination of children born between 1994 and 2021 will:

prevent **472 million** illnesses
(29.8 million hospitalizations)



more than the current
population of the entire U.S.A.

help avoid
1,052,000
deaths



greater than the
population of Seattle, WA

save nearly **\$2.2 trillion** in total
societal costs
(that includes \$479 billion in direct costs)



more than \$5,000 for each American

Updated 2021 analysis using methods from "Benefits from Immunization during the Vaccines for Children Program Era—United States, 1994–2021."



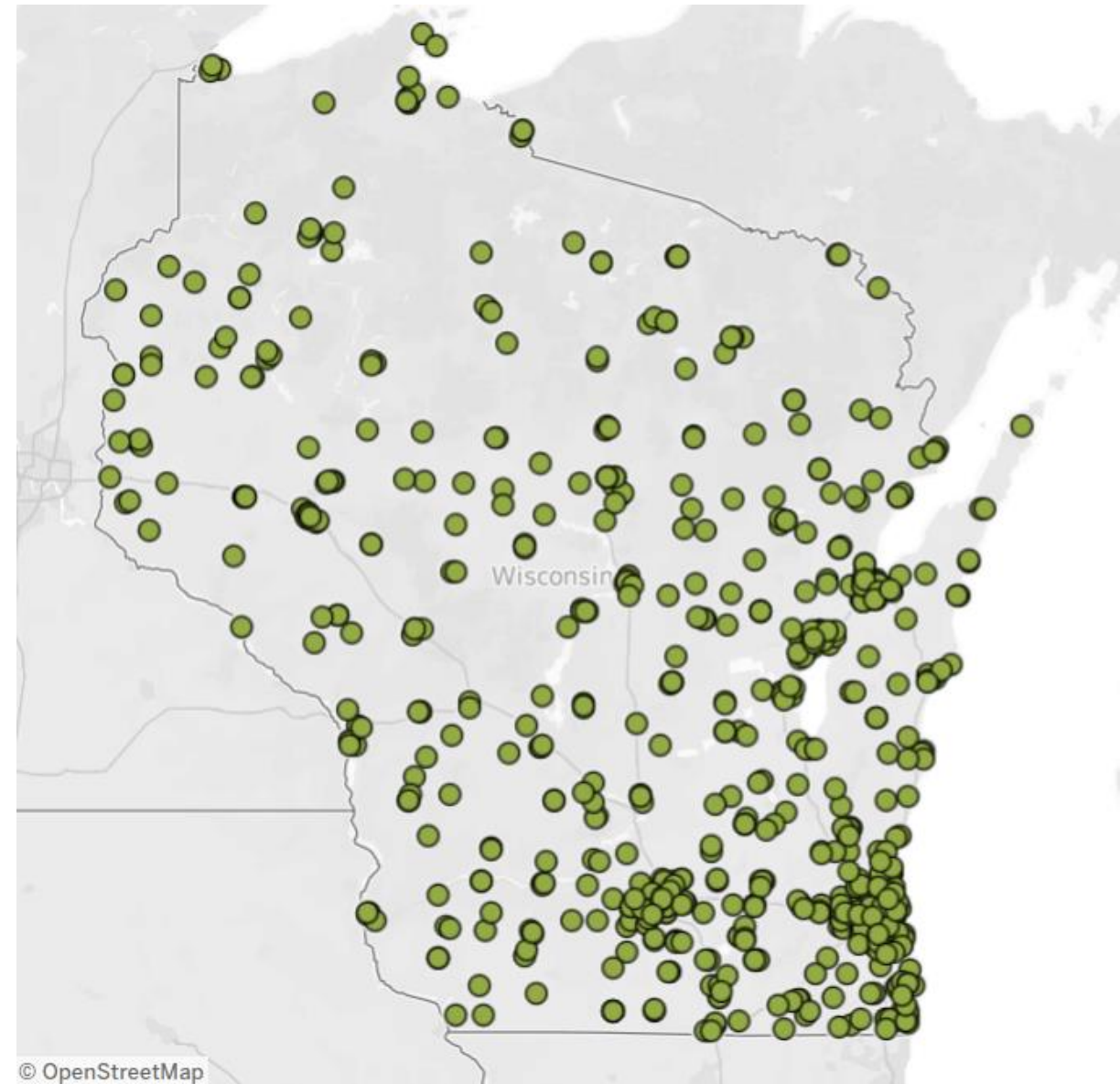
U.S. Department of
Health and Human Services
Centers for Disease
Control and Prevention

www.cdc.gov/vaccines/vfcprogram/

NCIRDWTLIC | 10/28/22

VFC Program in WI

- Network of 734 providers throughout the state
- In 2024, provided over 918,000 doses of vaccine
- Annual cost of nearly \$76 million
- Serves about 50% of children in the state



VFC Eligibility

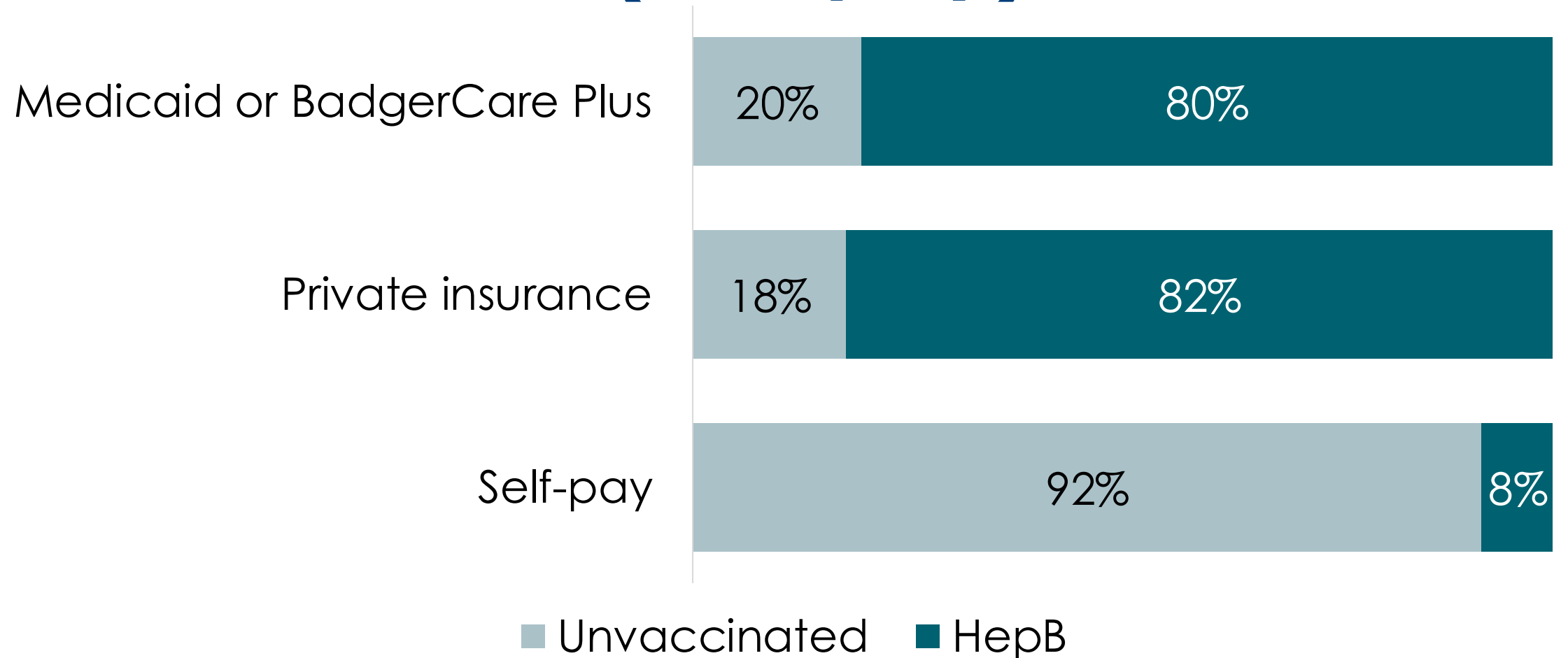
Children who are ages 18 years and younger and:

Are enrolled or eligible for Medicaid.

Are American Indian or Alaska Native.

Don't have health insurance.

Insured infants have higher hepB vaccination rates than those who are uninsured (self-pay).



Social Vulnerability Index (SVI)

- Created by:
 - Centers for Disease Control and Prevention (CDC)
 - Agency for Toxic Substances and Disease Registry (ATSDR)
- Purpose:
 - Help identify communities that may need support to prepare or recover from emergency events such as severe weather or disease outbreaks.
 - Guide community-based health promotion activities.

Overall Vulnerability

Socioeconomic Status

Below 150% Poverty

Unemployed

Housing Cost Burden

No High School Diploma

No Health Insurance

Household Characteristics

Aged 65 & Older

Aged 17 & Younger

Civilian with a Disability

Single-Parent Households

English Language Proficiency

Racial & Ethnic Minority Status

Hispanic or Latino (of any race)

Black or African American, Not Hispanic or Latino

Asian, Not Hispanic or Latino

American Indian or Alaska Native, Not Hispanic or Latino

Native Hawaiian or Pacific Islander, Not Hispanic or Latino

Two or More Races, Not Hispanic or Latino

Other Races, Not Hispanic or Latino

Housing Type & Transportation

Multi-Unit Structures

Mobile Homes

Crowding

No Vehicle

Group Quarters

Social Vulnerability Index

- Percentile Rank 0–1
- Quantiles
 - High
 - Medium-High
 - Low-Medium
 - Low

Social Vulnerability Index

Census tract A

- Below 150% poverty: **15%**
- Unemployment: **9%**
- Uninsured: **10%**
- No Vehicle: **36%**
- Minority: **94%**
- Overall SVI Score: **.9993**
- SVI Category: **High**

Social Vulnerability Index

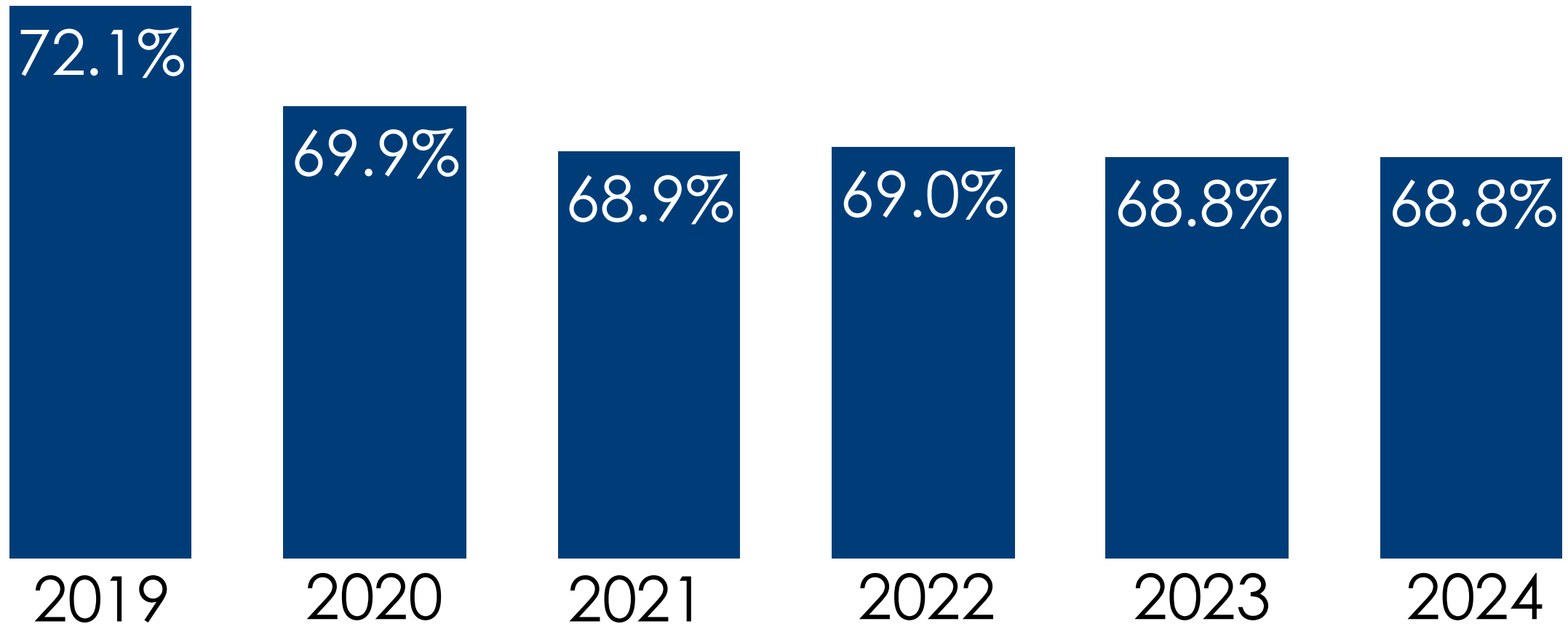
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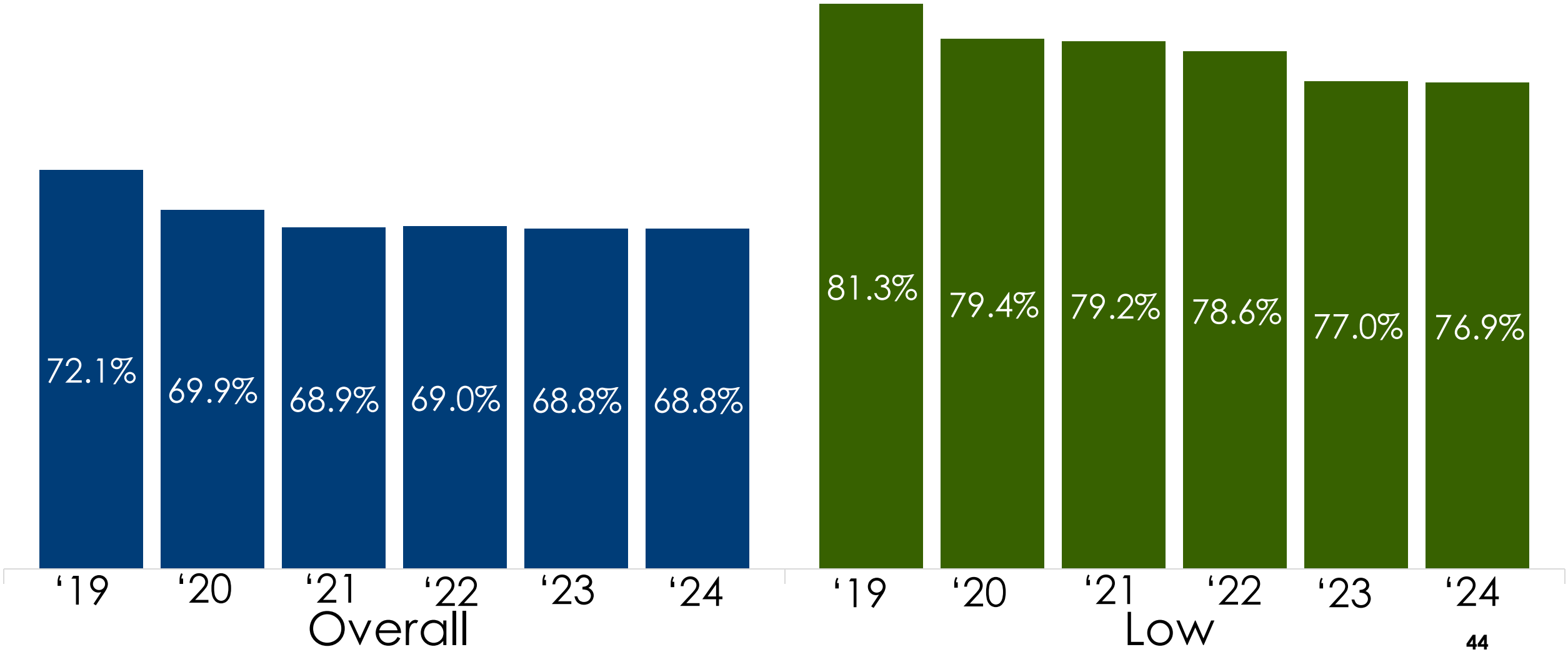
Census tract B

- Below 150% poverty: **1%**
- Unemployment: **1%**
- Uninsured: **1%**
- No Vehicle: **1%**
- Minority: **12%**
- Overall SVI Score: **.002**
- SVI Category: **Low**

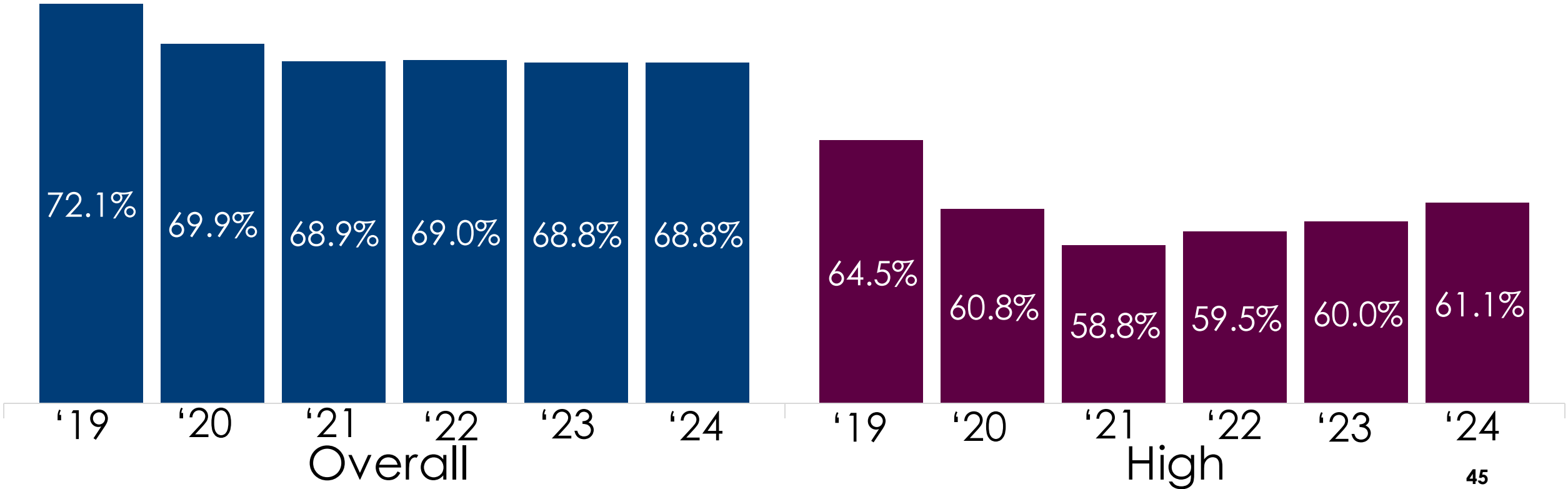
Combined 7-Vaccine Series Coverage by 24 Months, 2019–2024



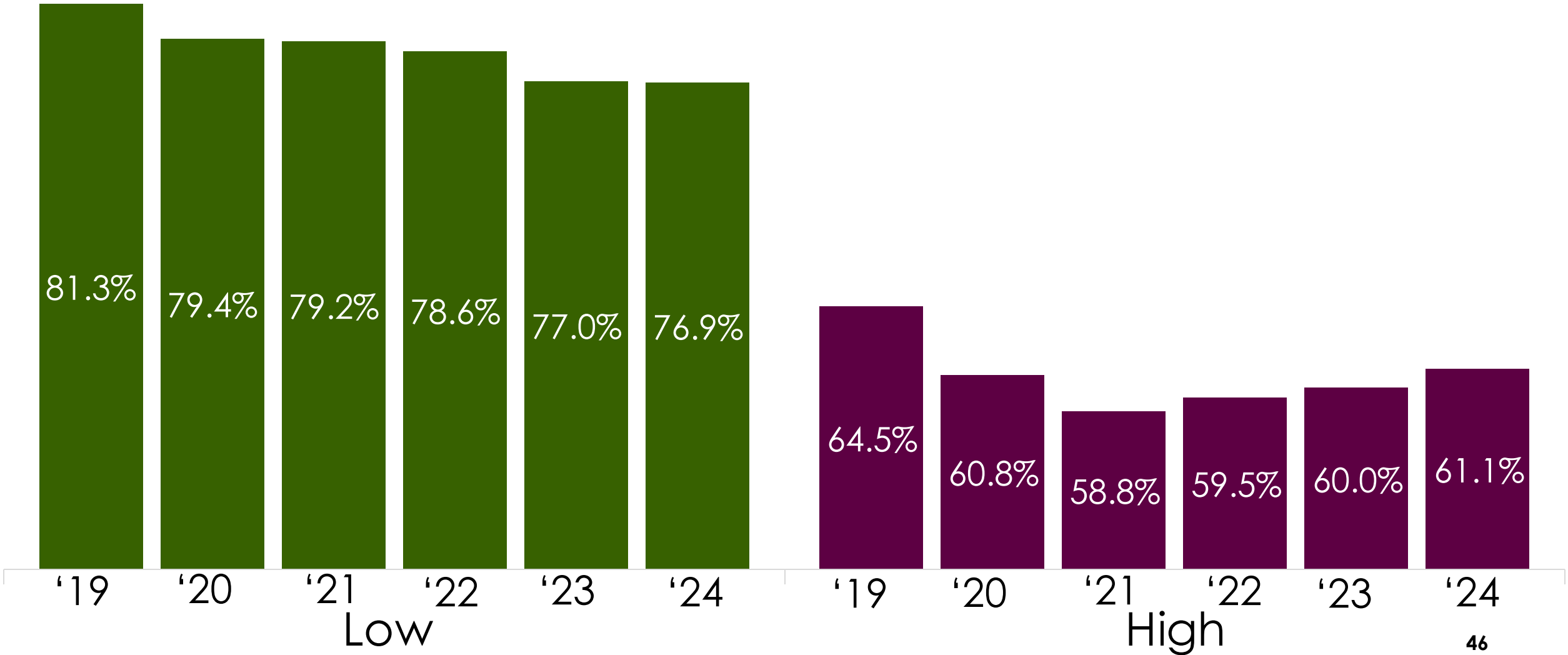
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Combined 7-Vaccine Series Coverage by 24 Months, 2019–2024



Combined 7-Vaccine Series Coverage by 24 Months, 2019–2024



Key Findings

- Children living in census tracts with **higher vulnerability** had **lower series completion rates**.

Overall Vulnerability

Socioeconomic Status

Below 150% Poverty

Unemployed

Housing Cost Burden

No High School Diploma

No Health Insurance

Aged 65 & Older

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Civilian with a Disability

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Housing Type & Transportation

Multi-Unit Structures

Mobile Homes

Crowding

No Vehicle

Group Quarters

Social Vulnerability Index

Key Findings

- **The metrics with the largest difference** in vaccination rates between children living in low versus high vulnerability census tracts were **poverty** and **lack of health insurance**.

Call to Action

Ensure all families know about VFC.

Carry and administer all ACIP recommended vaccines (including COVID, RSV).*

*Required of all VFC providers



Pregnancy



The following vaccines are recommended by the Advisory Committee on Immunization Practices (ACIP) during pregnancy:



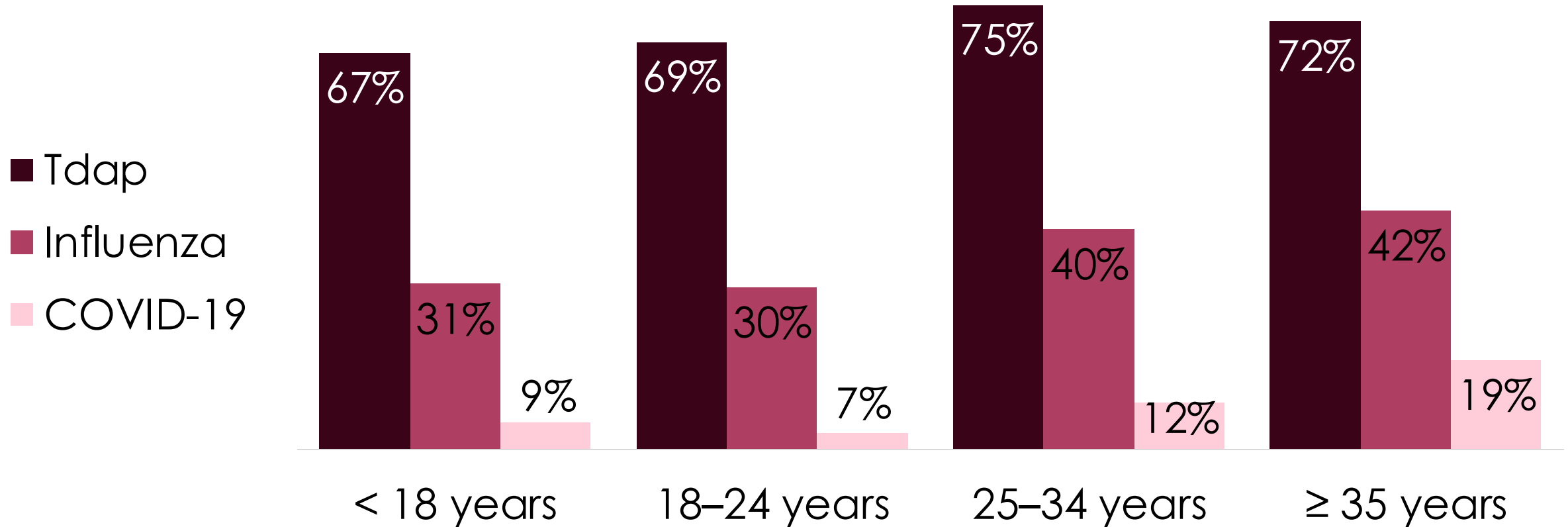
- Tdap
- Influenza
- COVID-19
- RSV*



77%

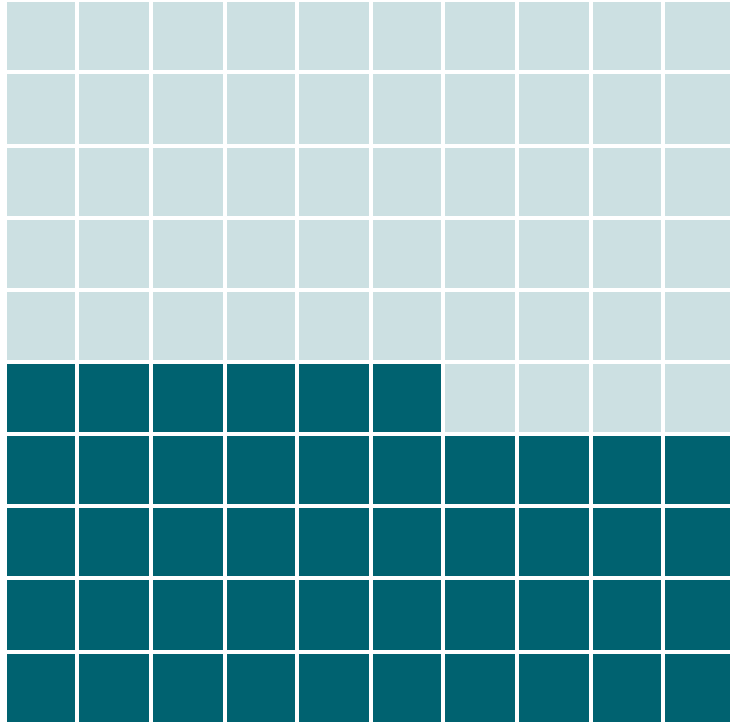
**of pregnant people
received vaccines
during their prenatal
period**


Vaccination During Pregnancy





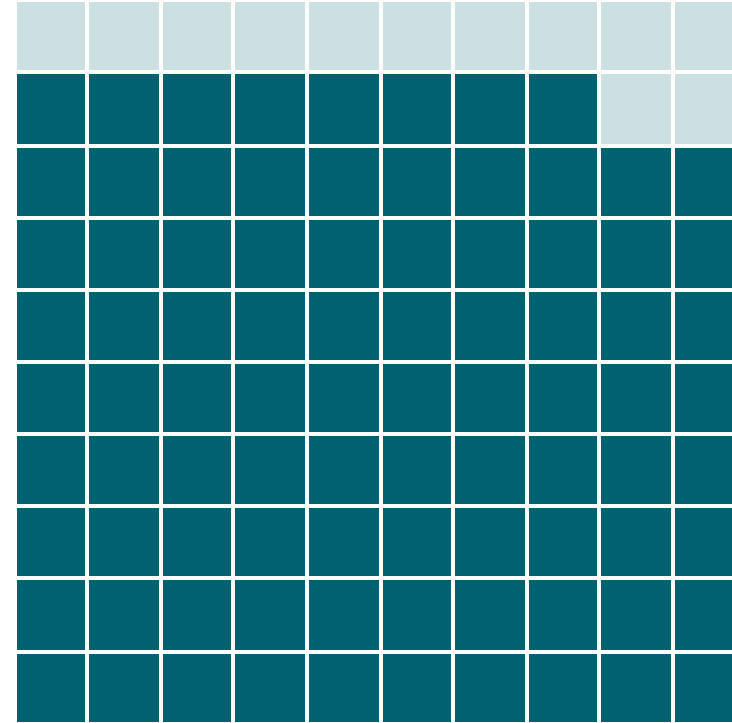
No vaccine
during pregnancy



46% of infants received hepB at birth 



Vaccinated 
during pregnancy



88% of infants received hepB at birth

Call to Action

Talk to expecting parents early on about vaccination during pregnancy.

Provide information during pregnancy about childhood vaccines and Hepatitis B birth dose.



Vaccine Administration During Pregnancy in Wisconsin

Tdap, Influenza, COVID-19, and RSV Vaccination Coverage Report, 2021–2023

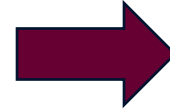
Wisconsin Immunization Program

Immunization Data Reports



Where to Find Immunization Data

- [Immunization data homepage link](#)
- Tiled images navigate to data dashboards



Data pages



RSV immunization data

The Department of Health Services reports on RSV immunization for infants ages 0 to 19 months and adults ages 18 to 49 and 60+ years.

[View RSV immunization data](#)



COVID-19 vaccination data

DHS reports on updated COVID-19 vaccination for Wisconsin residents 6 months and older.

[Visit the COVID-19 vaccination data page](#)



Child and adolescent vaccine data

DHS reports on vaccination data for children and adolescents in Wisconsin.

[View child and adolescent vaccine data](#)



Flu vaccination data

The Department of Health Services reports on flu vaccinations for people at least 6 months old who have received at least one dose of flu vaccine during the season.

[View flu vaccination data](#)



Impact of COVID-19 on routine vaccination

The COVID-19 pandemic caused many children and teenagers to fall behind schedule for vaccines. This dashboard compares quarterly vaccination rates to the average rates of the three years before the pandemic.

[See the impact of COVID-19 on routine vaccination](#)

Data reports

[Close all](#) [Open all](#)

Reports about children ages 0 to 18 years



Reports about adults



Reports about pregnant people



Where to Find Immunization Data

- Click + to expand accordion drop downs for data reports

Data pages



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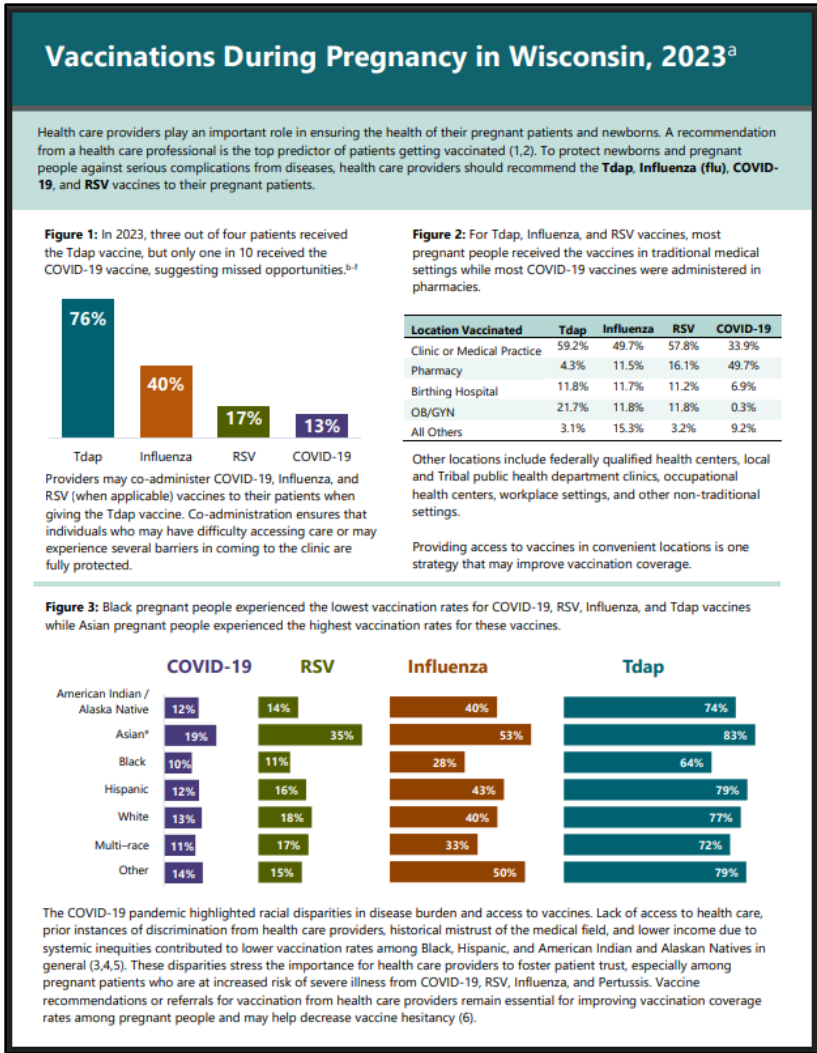
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Vaccines During Pregnancy: Fact Sheet and Technical Report





WISCONSIN DEPARTMENT

of HEALTH SERVICES



Vaccine Administration During Pregnancy in Wisconsin

Tdap, Influenza, COVID-19, and RSV Vaccination Coverage Report, 2021–2023

Wisconsin Immunization Program

1



Wisconsin Immunization Registry (WIR)

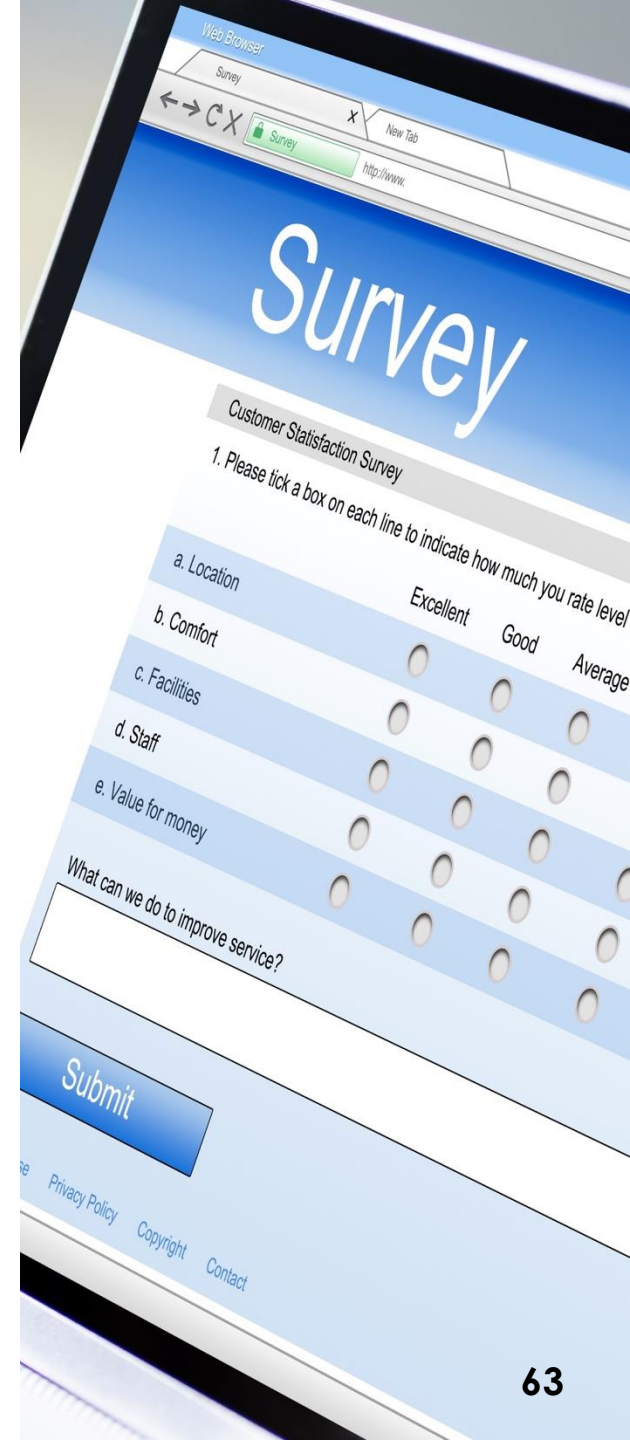


WIR Modernization Project Overview

- Wisconsin Immunization Registry (WIR) has served Wisconsin for over 20 years.
- To ensure continued implementation of standards and technology, Division of Public Health (DPH) is currently exploring options for a new Immunization Information System (IIS) that would replace WIR.
- We plan to retain much of the functionality of WIR in its current state when deciding on an IIS vendor.

WIR Modernization Project Overview

- Stakeholder surveys were conducted to gather feedback and input into the features important to retain from the current system and ways to enhance a future system.
- DPH is in the procurement phase of the project and will provide updates on the WIR website and through email to users and the public.



WIR Modernization Project Status

- ✓ DPH requirements gathering complete
- ✓ Stakeholder surveys to gather input complete
- Discussions with other states
- Procurement in progress
- Communication plan developed
- Frequently Asked Questions (FAQ)

WIR Modernization Key Requirements

- Support current IIS functional standards
- Interoperability with Electronic Health Records
- Public (consumer) access
- Interoperability with IZ Gateway
- Enhanced reporting capabilities
- More user friendly
- Barcode scanning

Acknowledgements

Wisconsin Immunization Program, including:

- Laura Gregor
- Melissa Haig
- Sarah Kangas
- Maddie Kemp
- Ashley Murphy
- Maeve Pell



Free
Copies
Available

My Vaccine Activity Book



 Children's Hospital
of Philadelphia
Vaccine Education Center

Mi libro de actividades sobre las vacunas



 Children's Hospital
of Philadelphia
Vaccine Education Center

GIVE THEM A
**LIFETIME OF
PROTECTION**



Thank you!