

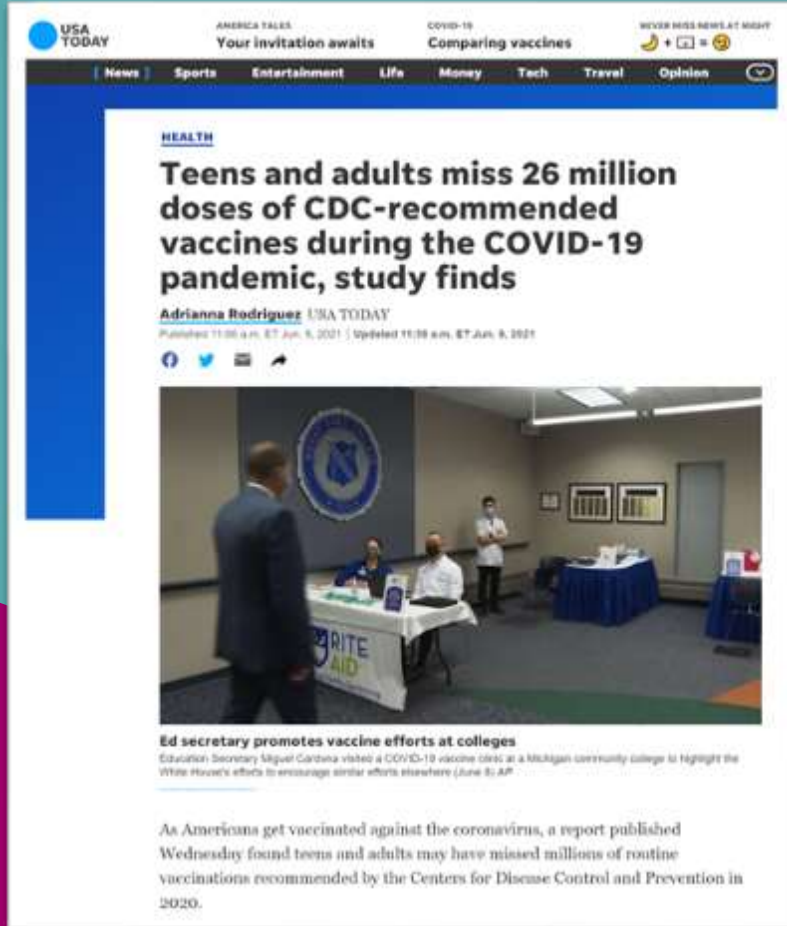
Why Vaccines are Important & Protecting Herd Immunity

Training on Immunization Practice Strategies
(T.I.P.S)

June 10, 2021

Use the **chat feature**
to tell us the names &
credentials (RN, MA, etc.)
of who is in the room with
you!





- ❖ GSK conducted by Avalere Health
- ❖ Vaccine Claims January thru November, 2020
- ❖ 8.8 million missed adolescent
- ❖ 17.2 million missed adult
- ❖ Does not look at pharmacy-provided vaccines

<https://www.usatoday.com/story/news/health/2021/06/09/cdc-recommended-vaccines-americans-missed-millions-doses-2020/7615833002/>



HELLO!

REBECCA NEVEDALE

and

MACHRINA LEACH

RN/BSN

mission

We foster community wellness and advocate for good public policy and best immunization practices.

- ❖ Partners like you!
- ❖ Over 400 Coalition members
- ❖ Working together can improve outcomes

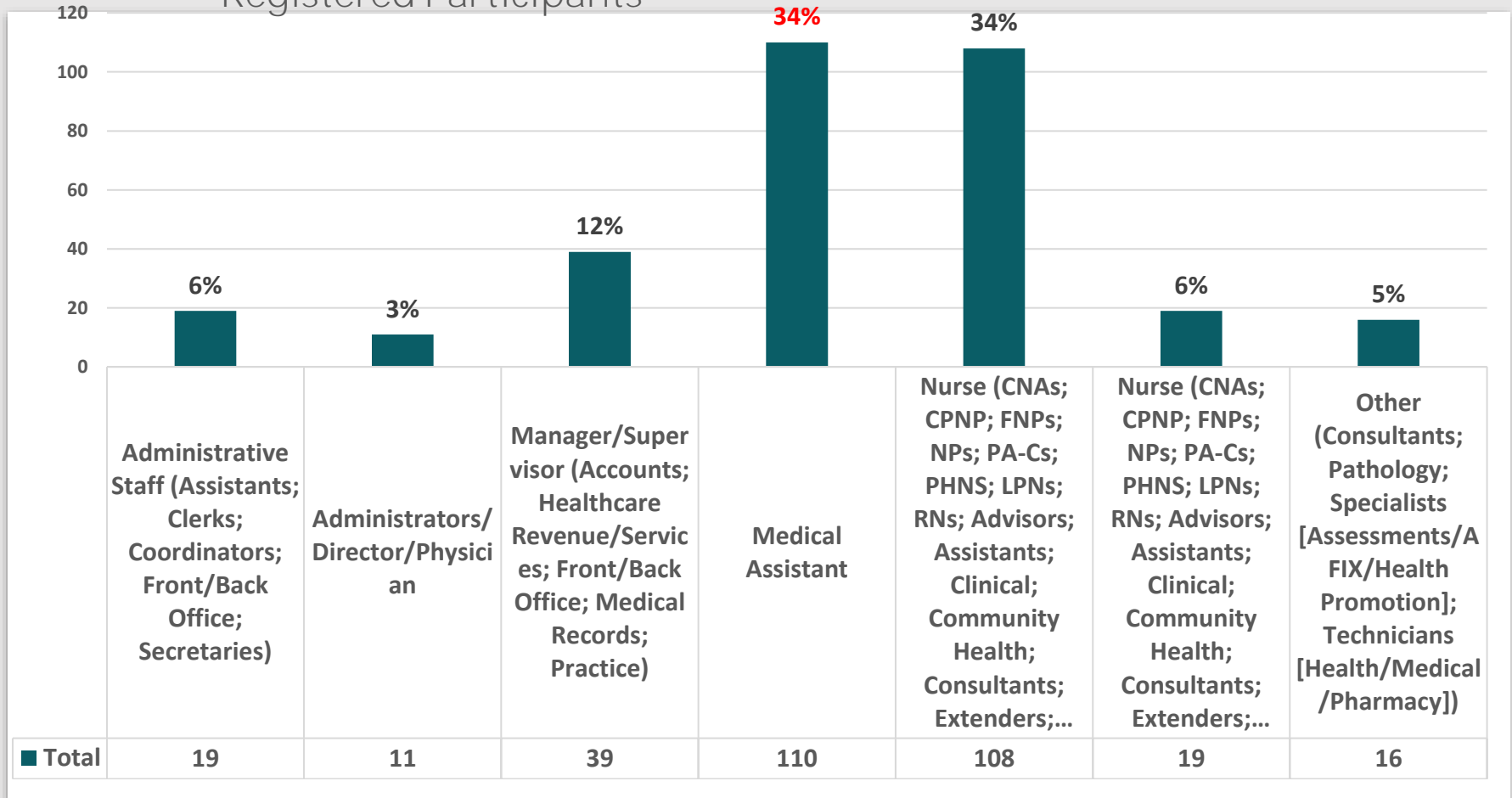


POLL

How many people are in
the room with you?



Registered Participants



GUIDING PRINCIPLES



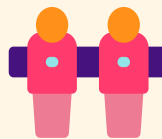
**LIGHT, FUN,
CONVERSATIONAL
Tone**



INTERACTIVE



WE ARE HUMAN



**ALL QUESTIONS ARE
GOOD QUESTIONS**



**WHY ARE VACCINES
IMPORTANT
&
PROTECTING HERD
IMMUNITY**



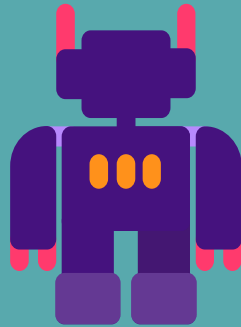
Review

MORBIDITY

Diseased condition or state; The incidence of disease

MORTALITY

The number of deaths in a given time or place; The rate of death



Immunity

“Protection from an infectious disease. If you are immune to a disease, you can be exposed to it without becoming infected.” - CDC



IMMUNIZATION COVERAGE OR COVERAGE RATES



“Estimated percentage
of people who have
received specific
vaccines.”

- CDC



HERD IMMUNITY OR COMMUNITY IMMUNITY

A situation in which a sufficient proportion of a population is immune to an infectious disease (through vaccination and/or prior illness) to make its spread from person to person unlikely. Even individuals not vaccinated (such as newborns and those with chronic illnesses) are offered some protection because the disease has little opportunity to spread within the community.

- CDC Vaccine Glossary





bozeman

QUESTIONS?



Herd Immunity Thresholds of vaccine-preventable diseases⁶

Disease	Transmission	Basic reproduction number	Herd Immunity Threshold
Measles	Airborne	12-18	92-95%
Pertussis	Airborne droplet	12-17	92-94%
Diphtheria	Saliva	6-7	83-86%
Rubella	Airborne droplet	6-7	83-86%
Smallpox	Airborne droplet	5-7	80-86%
Polio	Fecal-oral route	5-7	80-86%
Mumps	Airborne droplet	4-7	75-86%
SARS	Airborne droplet	2-5	50-80%
Ebola	Bodily fluids	1.5-2.5	33-60%
Influenza	Airborne droplet	1.5-1.8	33-44%



HOME / NEWS / BEST STATES / ARIZONA NEWS

Officials: Teen at Dance Competition in Arizona Had Measles

Public health officials say a teenager competing in the World Hip Hop Championship in Phoenix has measles and may have exposed others at the dance competition.

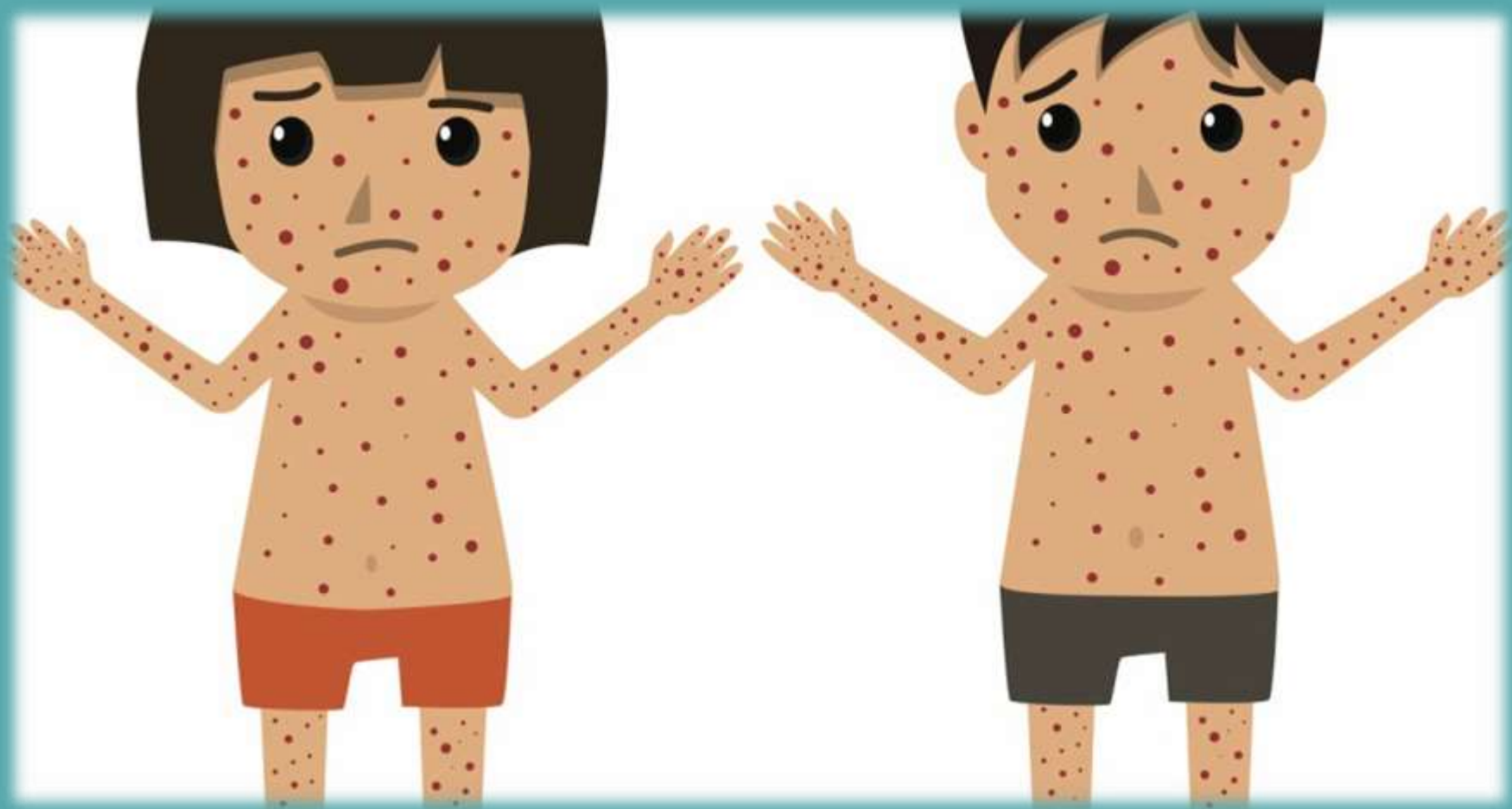
By Associated Press, Wire Service Content Aug. 23, 2019, at 9:15 p.m.



Maricopa County reveals more sites where people may have been exposed to measles

Eric Zott

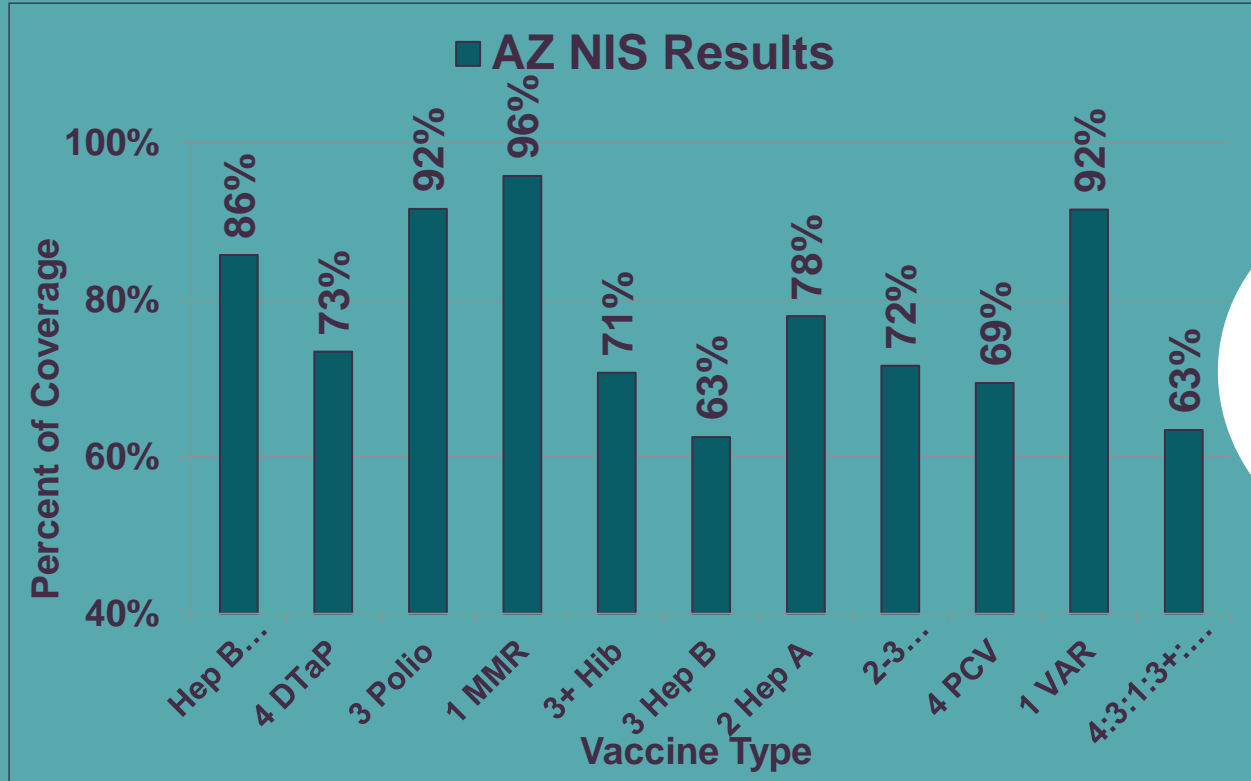
🕒 Posted Aug 23, 2019



ARIZONA COVERAGE RATES



2020 National Immunization Survey Arizona Coverage Level Estimates* for 19 to 35 months



Chat your thoughts about this table! What jumps out at you?



*Confidence intervals for coverage level estimates for Arizona ranged from 2.8% to 7.1% in 2020. The 2020 NIS results were released in March 2021. Source: National Immunization Survey (NIS) results posted at <https://www.cdc.gov/vaccines/imz-managers/coverage/childvaxview/index.html>.

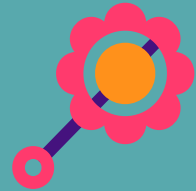
WHAT IS PERTUSSIS?

53 documented cases in
Arizona
- ADHS, 6/1/2021

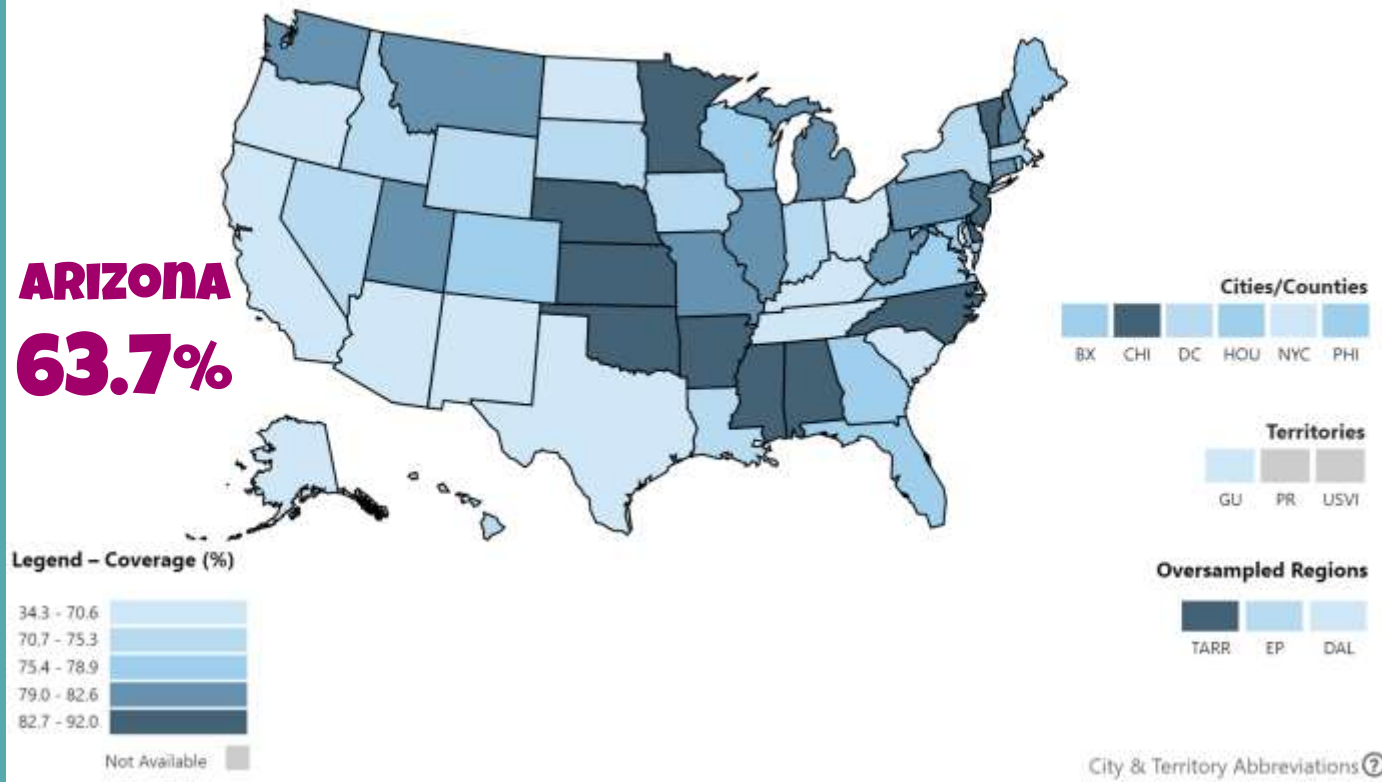
- ❖ Symptoms
- ❖ Treatment
- ❖ Prevention



HOW DO WE PREVENT PERTUSSIS IN BABIES?



Combined 7 Series Vaccination Coverage by Age 35 Months among Children Born in 2017, National Immunization Survey-Child



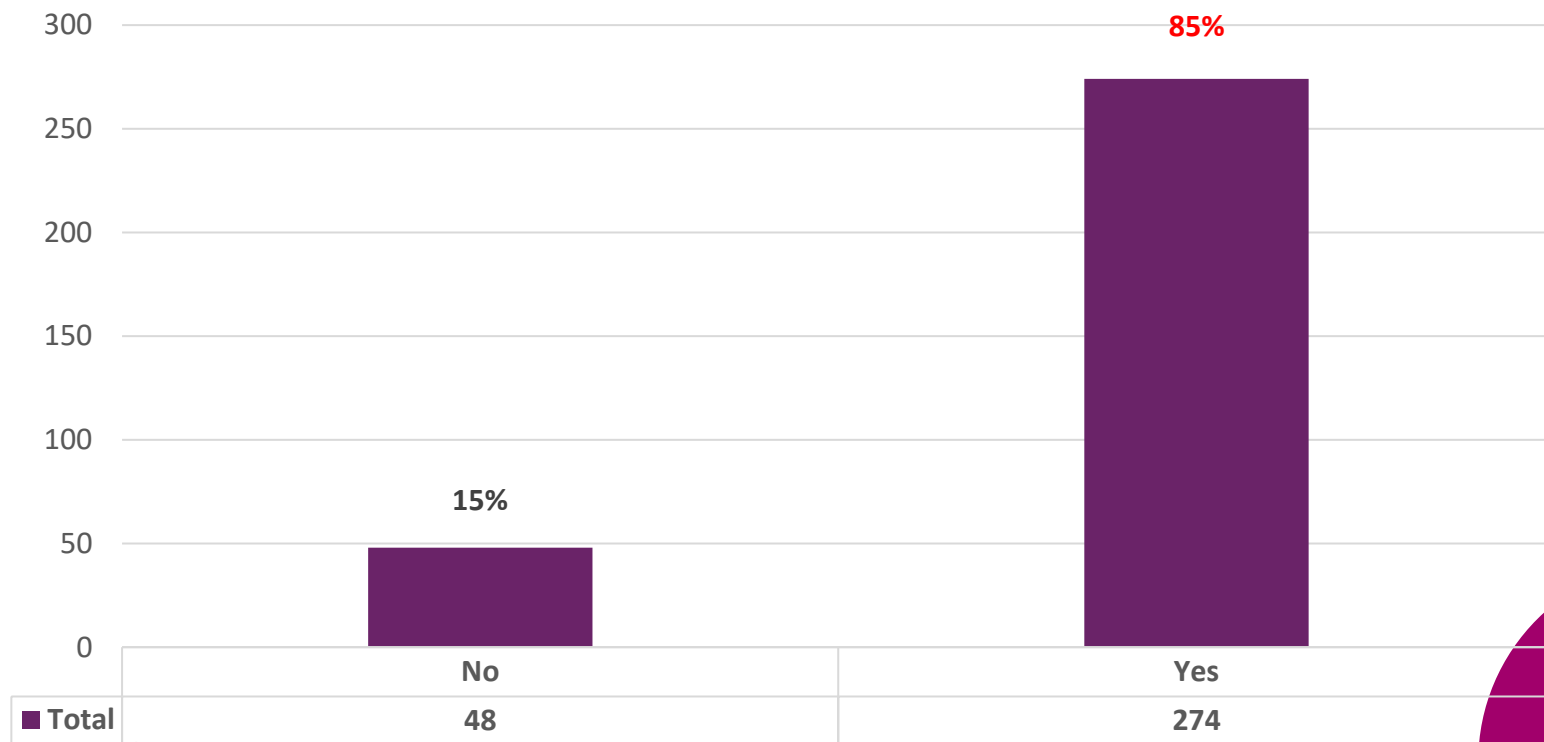
Bottom 3 states in US:

- AZ 63.7%
- OR 67.1%
- TN 61.6%

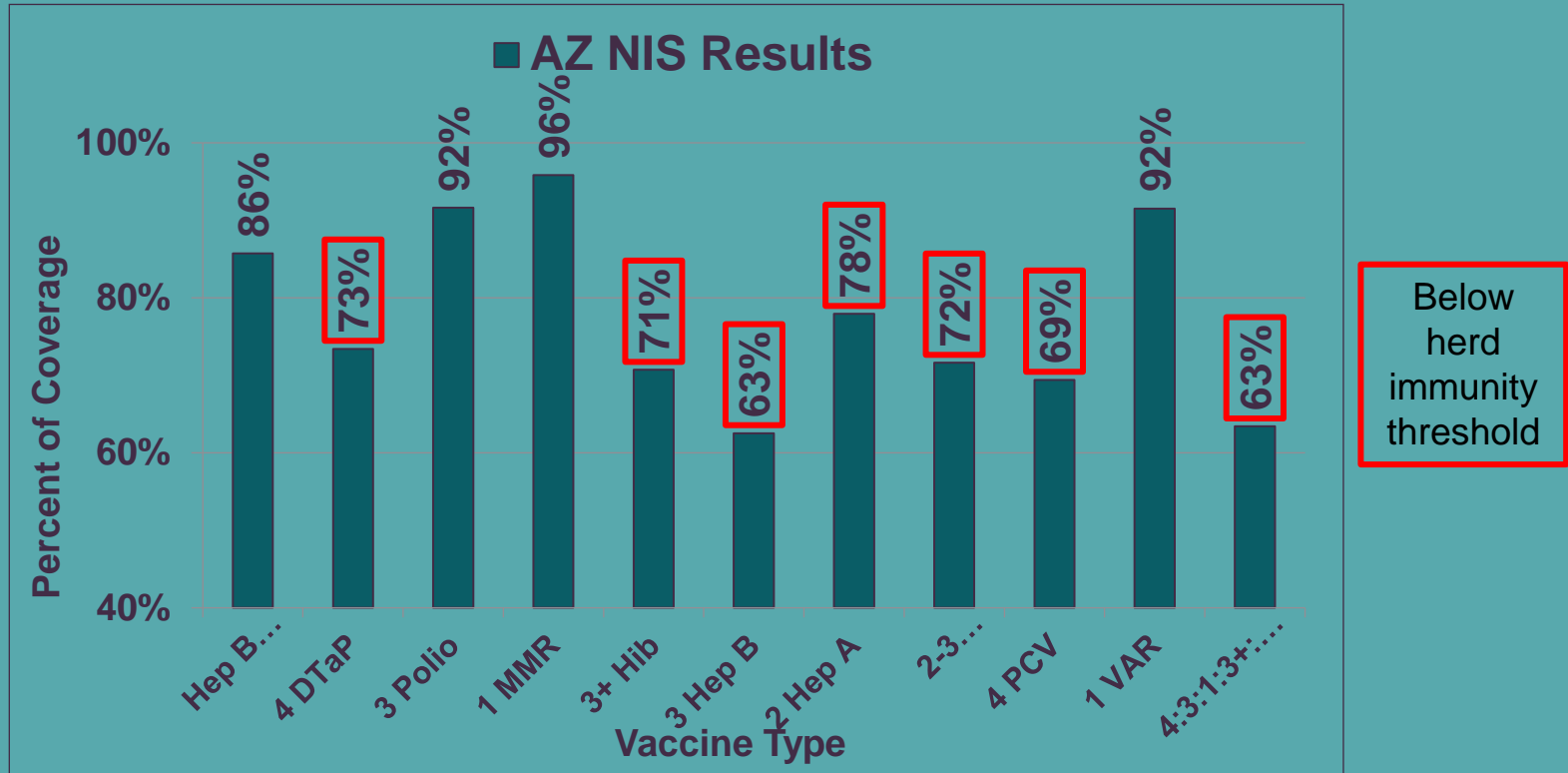
CDC National Immunization Survey (2021):

<https://www.cdc.gov/vaccines/imz-managers/coverage/childvaxview/interactive-reports/index.html>

Is your office a VFC Provider?



2020 National Immunization Survey Arizona Coverage Level Estimates* for 19 to 35 months



*Confidence intervals for coverage level estimates for Arizona ranged from 2.8% to 7.1% in 2020. The 2020 NIS results were released in March 2021. Source: National Immunization Survey (NIS) results posted at <https://www.cdc.gov/vaccines/imz-managers/coverage/childvaxview/index.html>.

HERD IMMUNITY

WHY?



HERD IMMUNITY

WHY?



Protect babies not old enough for vaccines.
They grow up to be children, teens and adults
WITH immunity.

QUESTIONS?

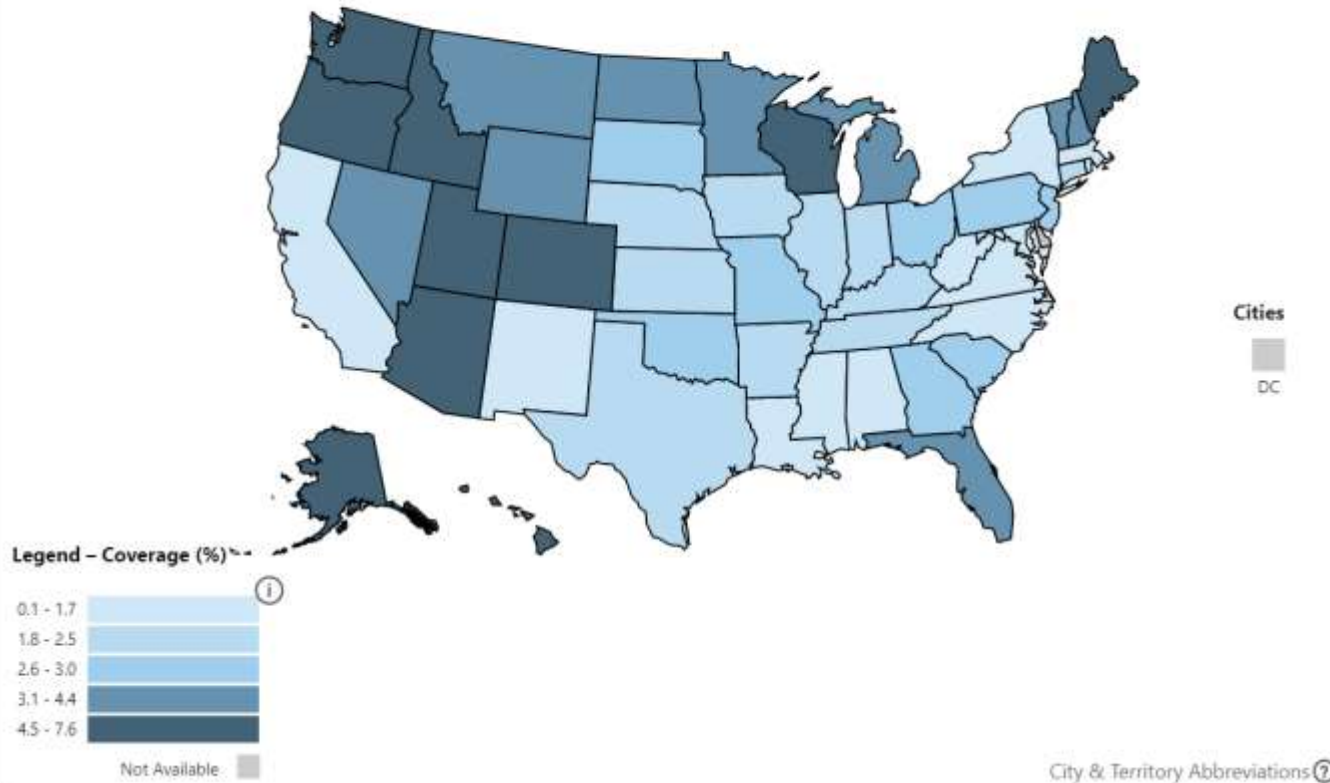




SCHOOL-AGED CHILDREN



Percentage of Kindergartners with Any Exemption, 2019-20 School Year



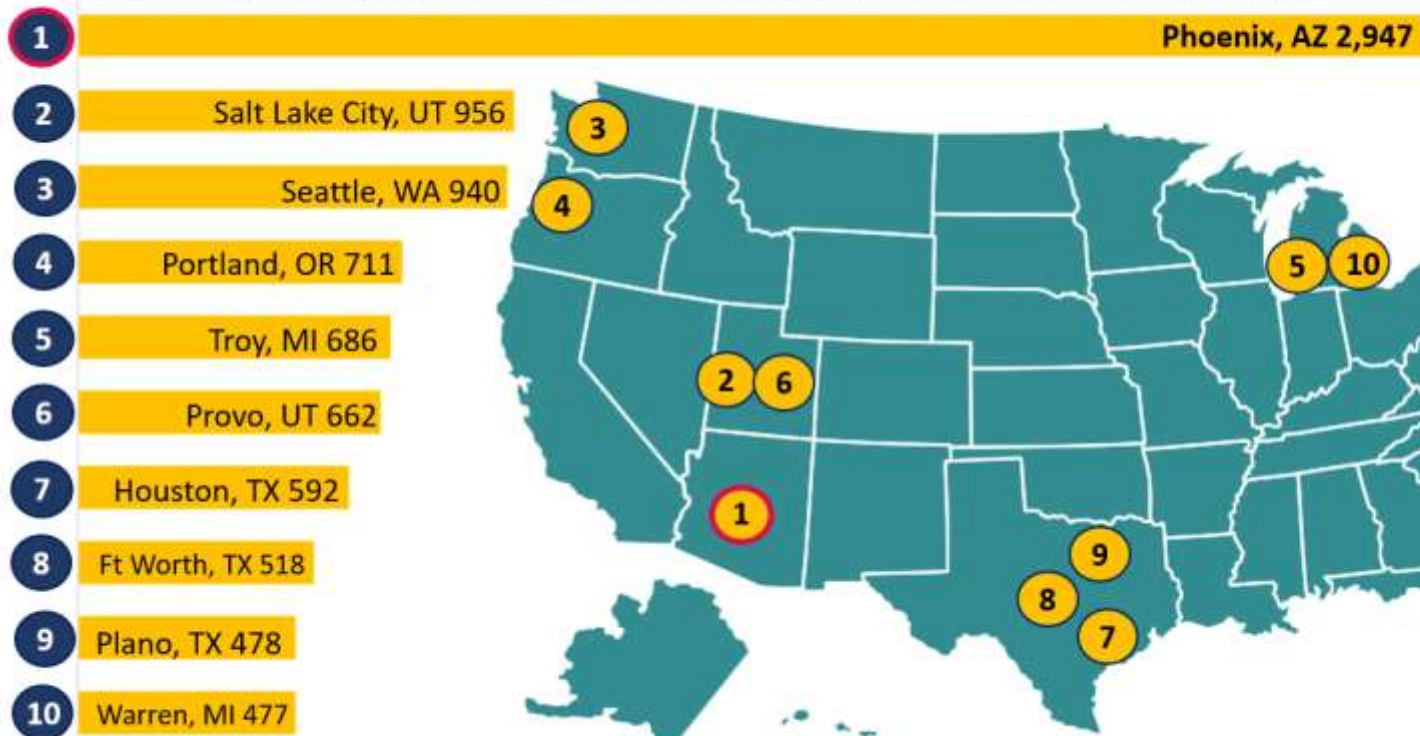
AZ in top 10 states for exemptions

5.7% of 5 year olds exempt

<https://www.cdc.gov/vaccines/imz-managers/coverage/schoolvaxview/data-reports/index.html>

Where the Exemptions Are:

Top 10 Urban Hotspots in the US for school exemptions and the number of kids at risk



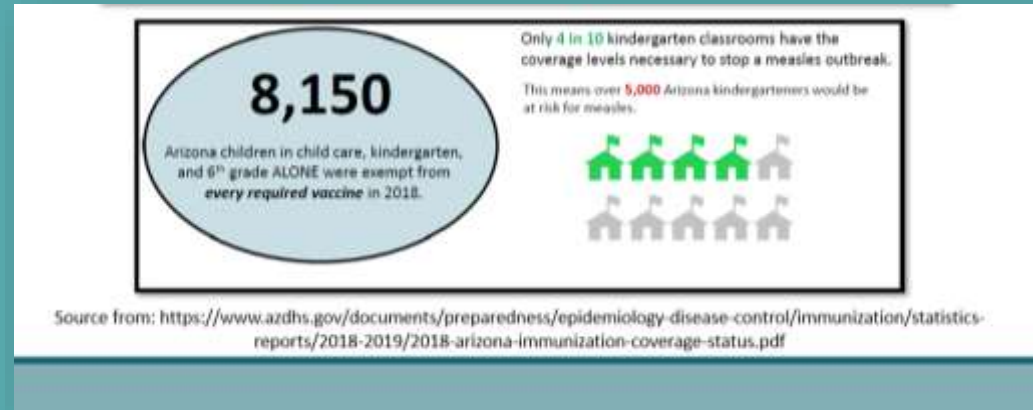
Source: PLOS Medicine <https://doi.org/10.1371/journal.pmed.1002578> Data 2016-17. Image Houston Chronicle.

Measles Protection by Arizona County*

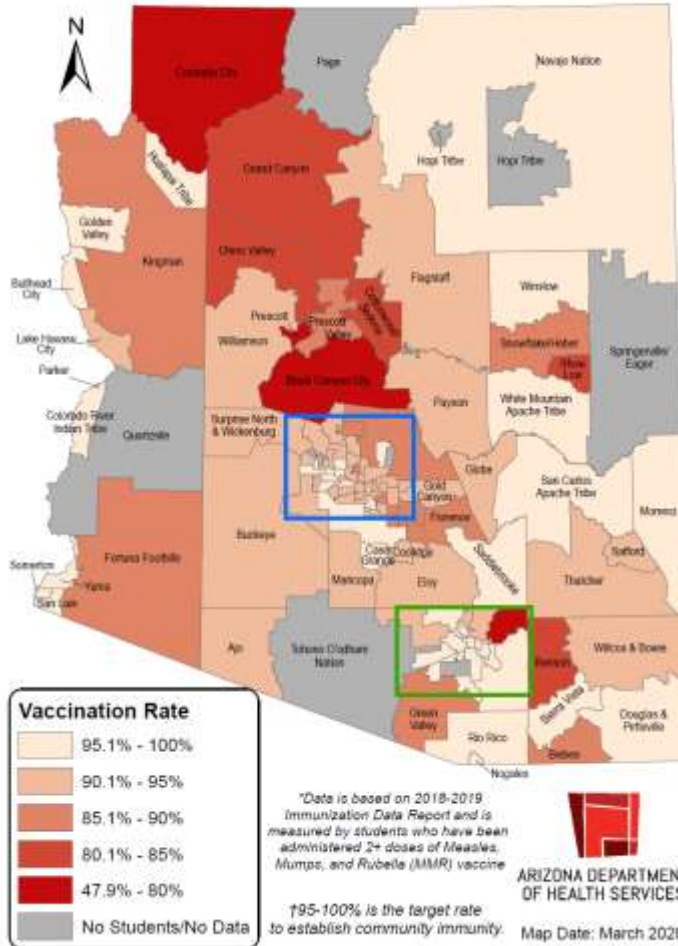
2019-2020 School Year (Kindergarten)

*As measured by the number and percentage of schools in which 95% or more of kindergarten students have at least 2 doses of the measles, mumps, and rubella (MMR) vaccine, as reported through the 2019-2020 Immunization Data Report.

County	Total # of schools	# of Schools with 95%+ MMR Coverage Rate	% of Schools with Community Immunity
Apache	15	10	66.6%
Cochise	31	22	70.9%
Coconino	22	10	45.5%
Gila	8	3	37.5%
Graham	11	5	45.5%
Greenlee	2	1	50.0%
La Paz	2	1	50.0%
Maricopa	726	329	45.3%
Mohave	31	16	51.6%
Navajo	19	11	57.9%
Pima	192	138	71.8%
Pinal	58	32	55.2%
Santa Cruz	17	14	82.3%
Yavapai	34	4	11.7%
Yuma	40	32	80.0%
Total	1,208	628	51.9%



Percentage of Arizona Kindergarten Students Immunized Against Measles, 2019-2020*



Metro Phoenix



Metro Tucson

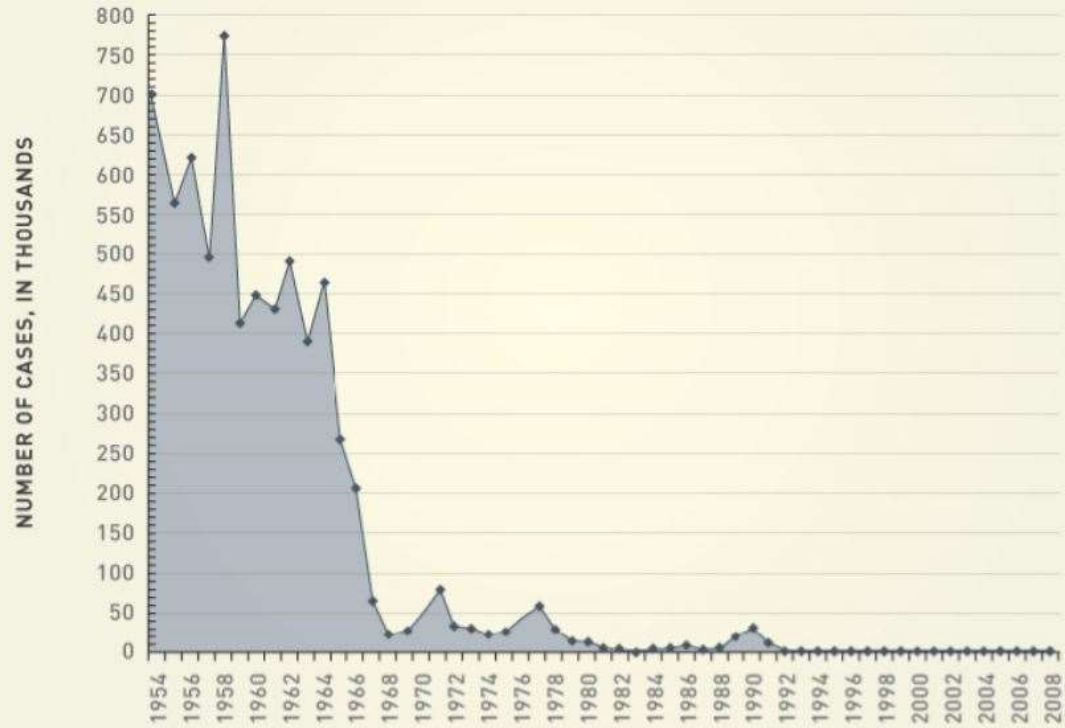


POLL

True or False:
Are ACIP-recommended vaccines
required for school?



Reported Measles Cases in the United States by Year 1954-2008

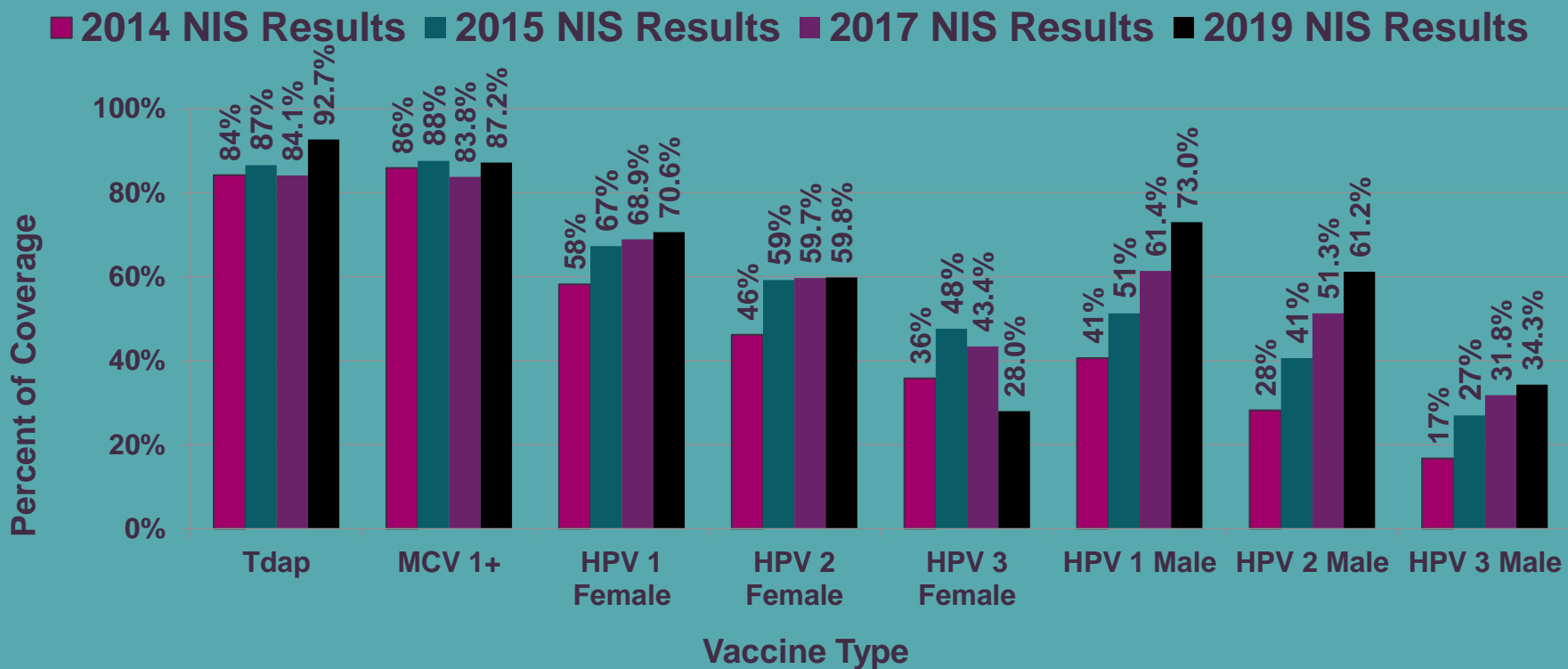


QUESTIONS?



Teen National Immunization Survey

Arizona Coverage Level Estimates for 13 to 17 year olds



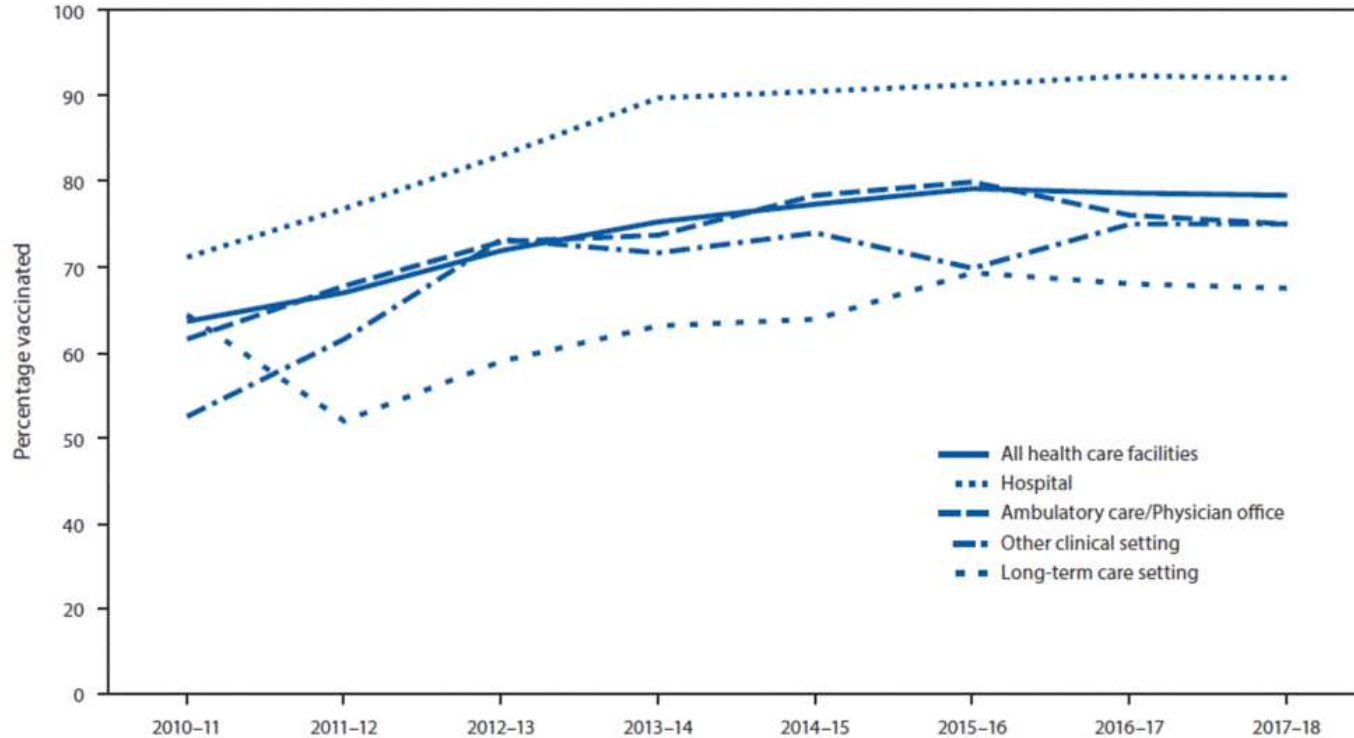
The 2019 NIS results were released in March, 2021. Source: National Immunization Survey (NIS) results posted at <https://www.cdc.gov/vaccines/imz-managers/coverage/teenvaxview/data-reports/hpv/index.html>. Prepared by The Arizona Partnership for Immunization.

QUESTIONS?



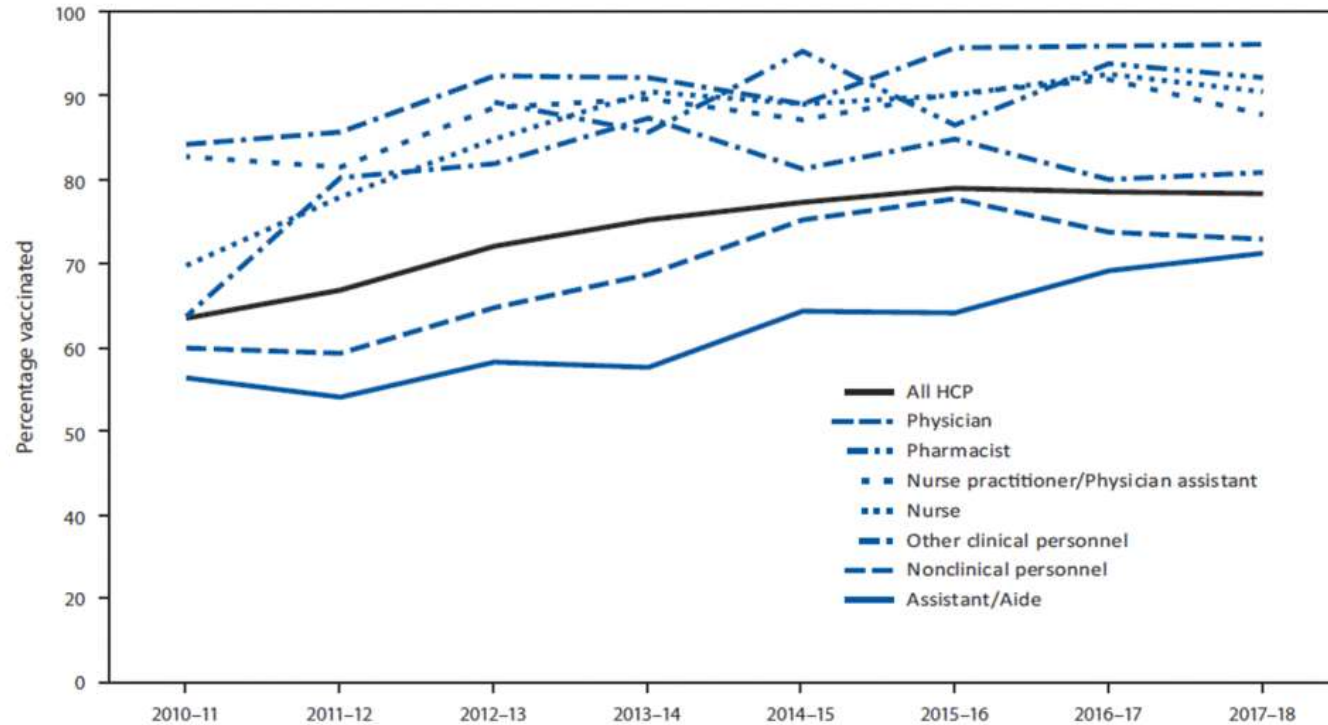
Healthcare Worker Influenza Vaccination – by Setting

FIGURE 1. Percentage of health care personnel who received influenza vaccination, by work setting* – Internet panel surveys,[†] United States, 2010–11 through 2017–18 influenza seasons



Healthcare Worker Influenza Vaccination – by Occupation

FIGURE 2. Percentage of health care personnel (HCP) who received influenza vaccination, by occupation* — Internet panel surveys,[†] United States, 2010–11 through 2017–18 influenza seasons



FLU FACT

Flu vaccine has been shown to reduce the risk of adults and pregnant women being hospitalized from flu by 40%.

#FIGHT FLU



QUESTIONS?



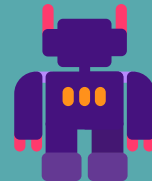
You

Are the protectors
of our community's
immunity.



POLL

In 1980, I was...





VACCINE BASICS & ACIP SCHEDULE:

What do you want to learn about?



*Don't
leave
yet!!!*



T.I.P.S. VIRTUAL VACCINE CONVERSATIONS

Training on Immunization
Practice Strategies (T.I.P.S.)

REGISTER
NOW!

Plan to attend
each session
to be eligible
for a
FREE PRIZE!

TAPI, in collaboration with the Arizona Department of Health Services Immunization Program, presents free trainings that improve immunization practices in public and private providers' offices. Participants receive valuable information on immunization friendly office practices, vaccine handling, state requirements, how to give shots and the state immunization registry.



Schedule of Virtual Conversations

Training on Immunization Practice Strategies (T.I.P.S.) is a series of 5 sessions **for medical assistants and vaccine coordinators.**

Session #1 – Thursday, June 10th, 12:00-1:00 PM

Why Vaccines are Important: Protecting Herd Immunity

Session #2 – Thursday, June 24th, 12:00-1:00 PM

Vaccine Basics and Understanding the ACIP Schedule

Session #3 – Thursday, July 8th, 12:00-1:00 PM

Protecting the Cold Chain and Preparing for Patients

Session #4 – Thursday, July 22nd, 12:00-1:00 PM

Empowering Patients and Administering Vaccines

Session #5 – Thursday, August 5th, 12:00-1:00 PM

Best Practices for Immunization Delivery in Arizona

*Shown in AZ Time

REGISTER NOW! ➔

Register **ONCE** & you can
attend **ALL SESSIONS!**



Remember
the post-
test!

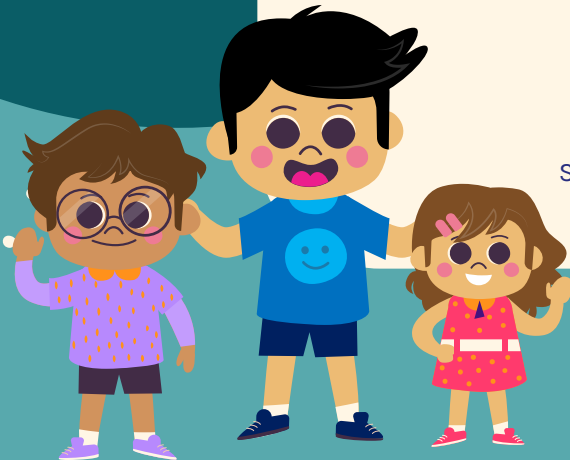


THANK YOU FOR SAVING LIVES EVERY DAY!

To download slides & view the video recording of today's training, visit:

[HTTPS://WHYIMMUNIZE.ORG/TAPI-TRAINING/](https://whyimmunize.org/tapi-training/)

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik



GIVEAWAY!



TAPI thanks you for attending TIPS training. Please fill out the survey to enter to win a \$50 gift card for lunch during the next TIPS!



If your office didn't win, we have a Papa John's coupon code for you!

You can get 20% off all online orders using code "TAPI20".