

DEPARTMENT OF HEALTH AND HUMAN SERVICES

DIVISION OF PUBLIC AND BEHAVIORAL HEALTH Helping people. It's who we are and what we do.



Lisa Sherych Administrator

Ihsan Azzam, Ph.D., M.D. Chief Medical Officer

DATE: November 22, 2022

TO: Jon Pennell, DVM, Chairperson

State Board of Health

FROM: Lisa Sherych, Secretary

State Board of Health

RE: Follow up on question on Nevada State Immunization Program (NSIP) Childhood Vaccination Agenda Item at

the September 2, 2022 Board of Health Meeting

In follow up to a question posed at the September 2, 2022, Board of Health meeting, the Nevada State Immunization Program, Childhood Vaccination agenda item, a breakout of kindergarten vaccine rates further subdivided *by vaccine type* is provided in Table 1, below, using a refined methodology.

Rate of Kindergarten Students in Nevada with Religious Exemptions for School Required Vaccines by Vaccine Type, School Type, and School Year

		2019-2020	2020-2021	2021-2022	% Change from 2019-2022
N evada	Public	3.4%	3.5%	4.0%	17.9%
	Private	5.7%	5.3%	6.9%	21.0%
DTaP	Public	3.2%	3.0%	3.7%	14.5%
	Private	5.6%	5.0%	7.1%	27.3%
Нер А	Public	3.2%	3.2%	3.7%	14.0%
	Private	5.5%	4.9%	6.9%	25.5%
Нер В	Public	2.9%	2.7%	3.5%	18.9%
	Private	5.5%	5.0%	7.0%	27.8%
MMR	Public	2.7%	2.4%	3.2%	19.5%
	Private	5.6%	5.0%	6.9%	22.2%
Poliovirus (IPV)	Public	3.2%	3.0%	3.7%	17.9%
	Private	5.5%	5.1%	7.0%	26.5%
Varicella	Public	3.2%	3.0%	3.7%	16.1%
	Private	5.7%	5.0%	7.0%	23.9%

Source: Nevada Annual Immunization Reporting Survey, DBPH Note: Public rates include Nevada State Public Charter Schools

Applied method calculates the number of individual kindergarten students with any religious exemption (numerator) and then divides it by the number of students enrolled in kindergarten (denominator).

Starting in 2019, the annual immunization reporting survey changed from a sample-based survey to a census-based survey to represent Nevada's schools and immunization information more accurately. By statute, each public and private school and childcare facility shall report the exact number of pupils who have completed the immunizations required for enrollment before December 31st of each year. The Nevada Division of Public and Behavioral Health (DPBH) collects this information through REDCap surveys. Data is then submitted to the Centers for Disease Control and Prevention for further analysis and publication on SchoolVaxView. This school census is what is used to examine vaccine exemption rates in Nevada schools.

Data presented at the Board of Health Meeting on September 2, 2022, was based on an analysis adding up the number of religious exemptions for each individual school-required vaccine and dividing it by the number of enrolled students surveyed:

For the revised analysis presented in Table 1, school census data for 2019-2020, 2020-2021, and 2021-2022 school years were analyzed to determine religious exemption rates for school-required vaccines among Nevada kindergarteners. This methodology was used to examine the number of students with any religious exemption and divided that by the number of enrolled students surveyed, shown below:

(Students with Religious Exemptions)
(Students Enrolled)

Previous data methodology noting students with religious exemptions were 22% in public schools were drawn from a different methodology that tends to over sample the exemptions per population. While the number of total religious exemptions rose from the prior school year using either methodology, the percentage of kindergarten students with religious exemptions remains below 5% in the revised methodology. In 2020-2021, kindergarten students with religious exemptions were 3.6%; this number climbed to 4.2% in 2021-2022, with a percent change of 17%. There was an overall percent change of 18.5% between the 2019-2020 and 2021-2022 school year.