

National Immunization Survey (NIS)

The National Immunization Survey (NIS) provides national and state estimates of vaccination coverage among 19-35 month olds and teens.

The vaccination coverage reflects immunization practices 2 to 4 years in the past.

Interpreting National Immunization Survey (NIS) Data

An important caveat about the NIS is that because the data are collected from a sample of the population the rates are **estimates** with an associated confidence interval. Subtracting and adding the confidence interval to the reported rate estimate calculates the range that the rate would fall into 95% of the time. The larger the sample size the more precise the rate estimate.

It is important to remember when comparing rates across years or across states that ***if the confidence intervals make the range of rates overlap the rates are not statistically different.***

For example, in the table below

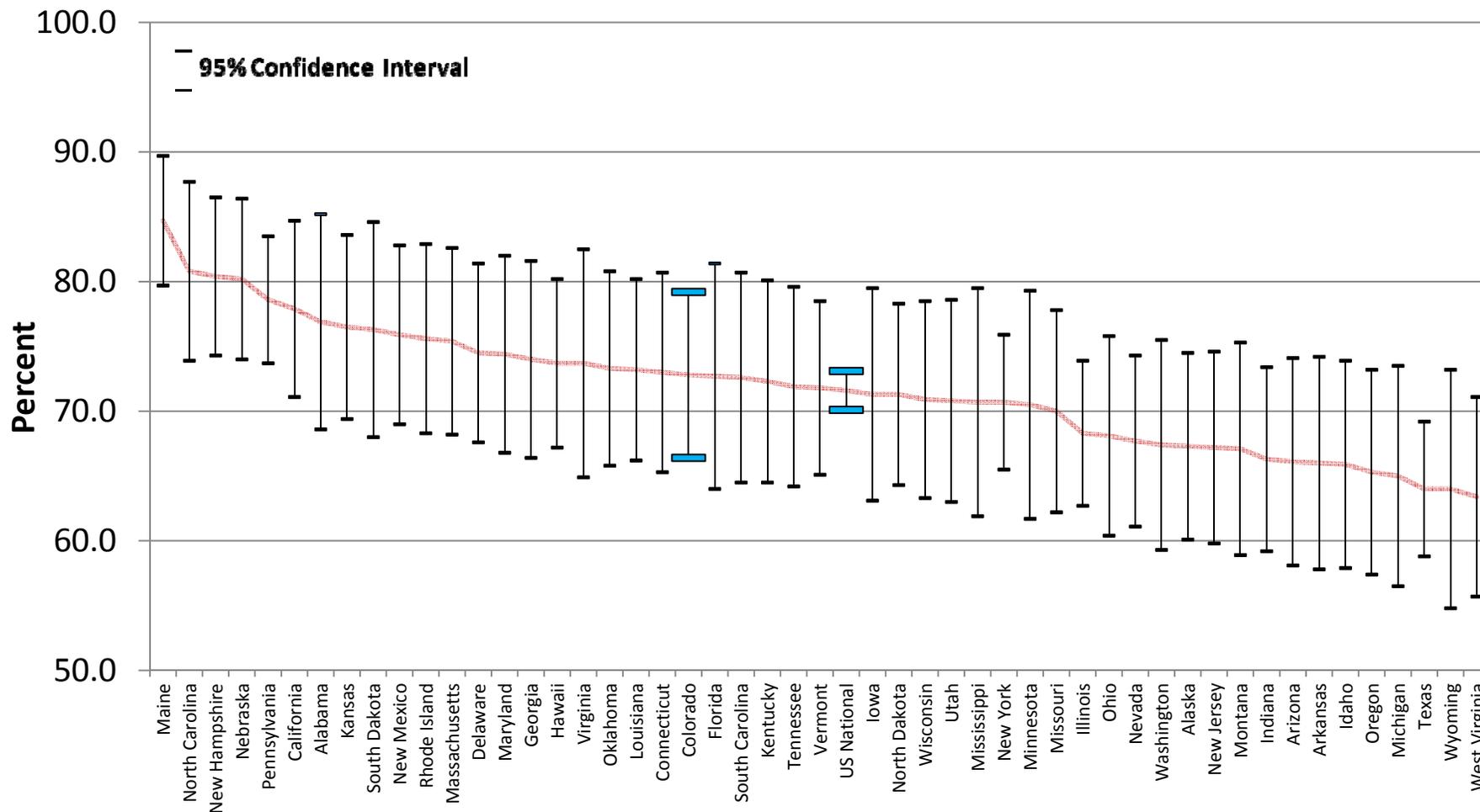
Sample Size	4:3:1:3:3:1 Reported Rate with Associated Confidence Interval	Statistically , the Range of the Rate
Colorado (n =442)	72.1 ± 6.8	65.3 - 78.9
U.S (n=22,462)	77.7 ± 1.4	76.3 - 79.1

The confidence interval for the CO rate is much larger (less precise) than the US rate (more precise) because the sample size for Colorado is much smaller than the US

The range of the rates overlap thus they are statistically the same.

4:3:1:3:3:1:4*

Immunization Rate with 95% Confidence Intervals among Children 19-35 Months of Age, by State, National Immunization Survey (NIS), 2014**

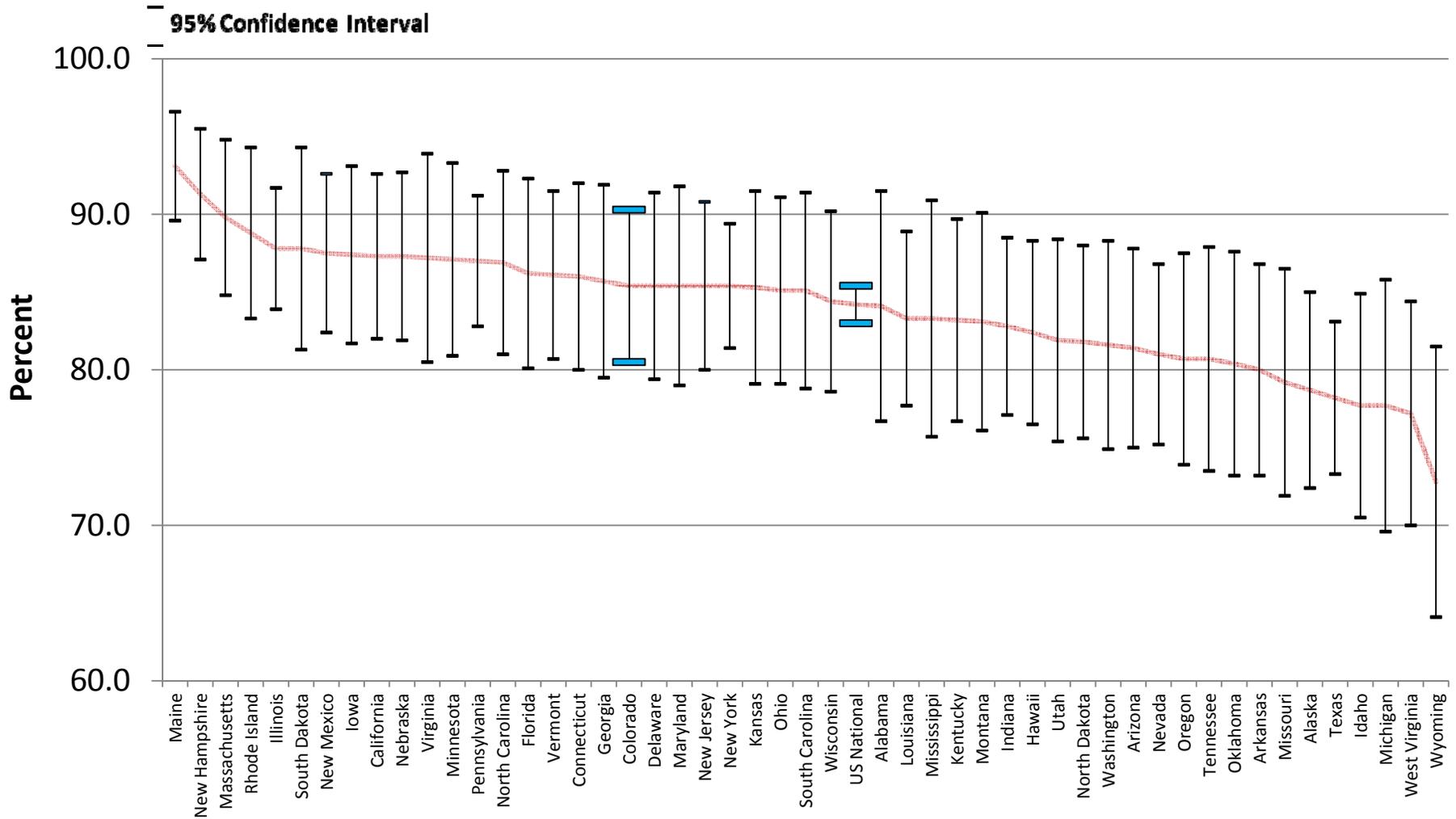


*4 or more doses of DTaP, 3 or more doses of poliovirus vaccine, 1 or more doses of any MMR vaccine, ≥3 doses of Hib, 3 or more doses of Hepatitis B vaccine, and 1 or more doses of varicella vaccine

** Other than Maine, Colorado is not statistically different from other state rates. Colorado is not statistically different from the national rate.

4 or More Doses DTaP

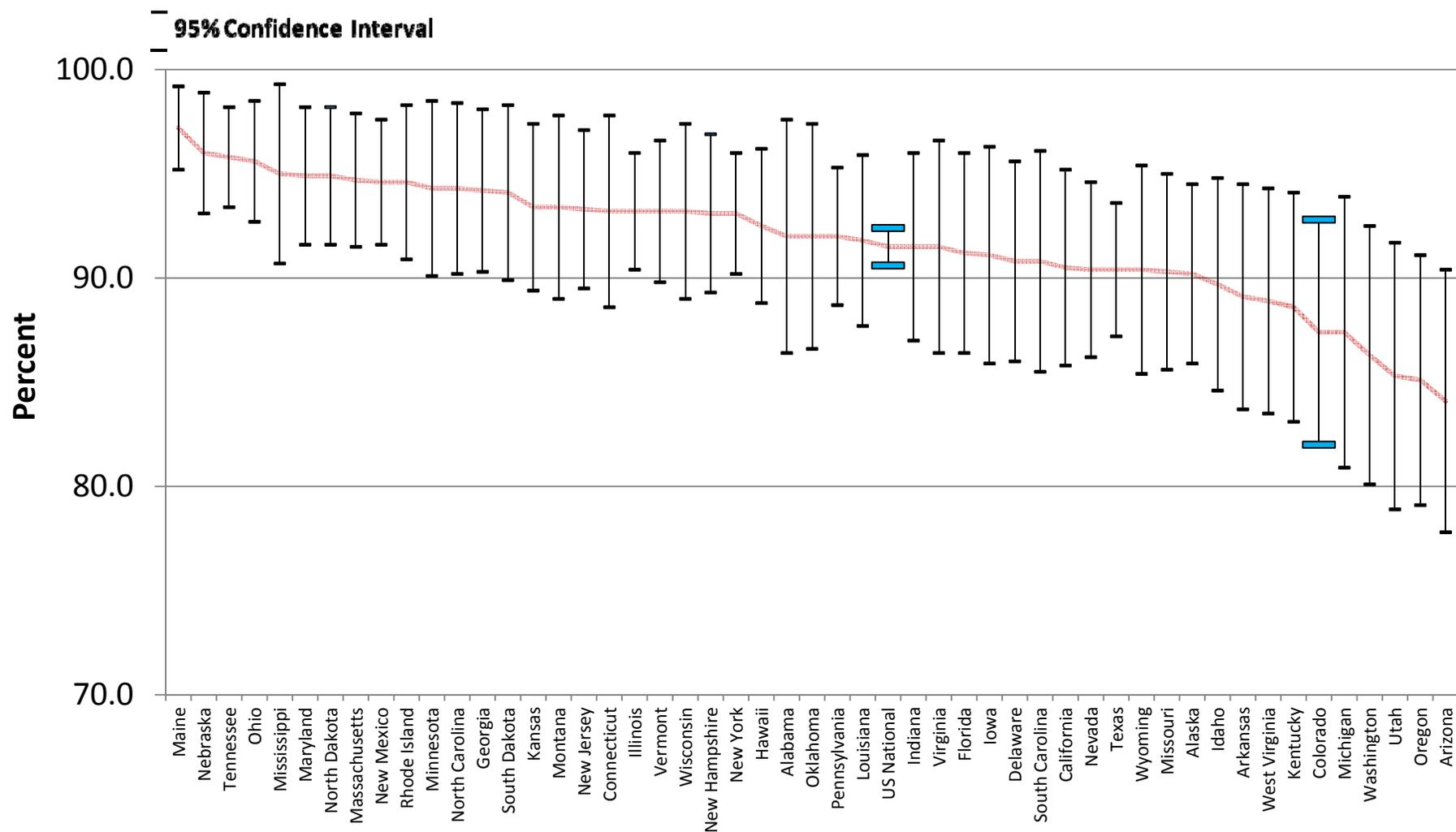
Immunization Rate with 95% Confidence Intervals among Children 19-35 Months of Age, by State, National Immunization Survey (NIS), 2014*



*Colorado is not statistically different from other state rates or the national rate.

1 or More Doses of MMR Vaccine

Immunization Rate with 95% Confidence Intervals among Children 19-35 Months of Age, by State, National Immunization Survey (NIS), 2014*



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