

Childhood Immunizations

Definition

The Advisory Committee on Immunization Practices (ACIP) provides routine vaccine recommendations for children. The recommended childhood immunizations for children by two years of age include four doses of diphtheria, tetanus, and pertussis (DTaP) vaccine; three doses of inactivated poliovirus (IPV) vaccine; one dose of measles, mumps, and rubella (MMR) vaccine; three doses of Haemophilus influenzae type b (Hib) vaccine; three doses of the Hepatitis B (HepB) vaccine; one dose of the varicella vaccine; and four doses of the pneumococcal conjugate vaccine (PCV).⁴⁰ This series is referred to in shorthand as 4:3:1:3:3:1:4.

In addition to the 4:3:1:3:3:1:4 series, two or three doses (depending on which vaccine is used) of rotavirus (RV) vaccine and two doses of hepatitis A (HepA) vaccine are also recommended by two years of age.⁴⁰ One or two doses (depending on child's influenza vaccination history) of annual influenza vaccine is recommended for persons aged 6–months and older.⁴⁰

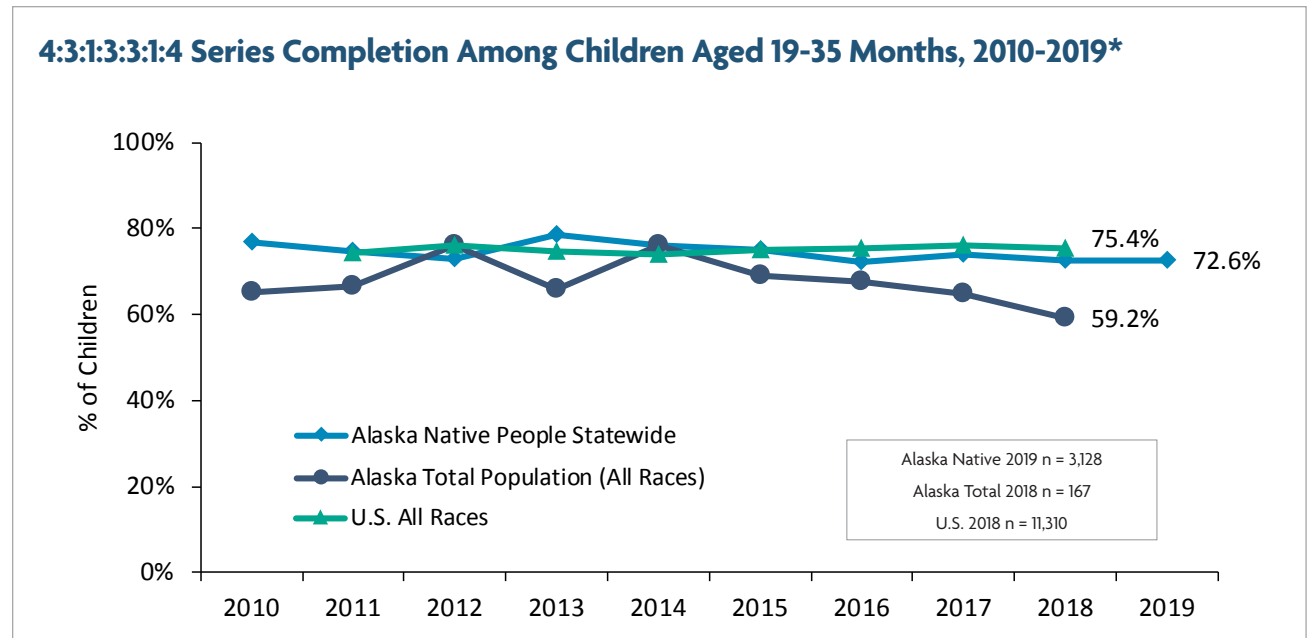
Related Objectives

Increase the vaccination coverage level of 4 doses of diphtheria-tetanus-acellular pertussis (DTaP) vaccine among children by age 2 years to 90.0%. - *Healthy Alaskans 2030, Objective #10*
 Reduce the proportion of children who get no recommended vaccines by age 2 years to 1.3%.
 - *HEALTHY PEOPLE 2030, OBJECTIVE IID-02*

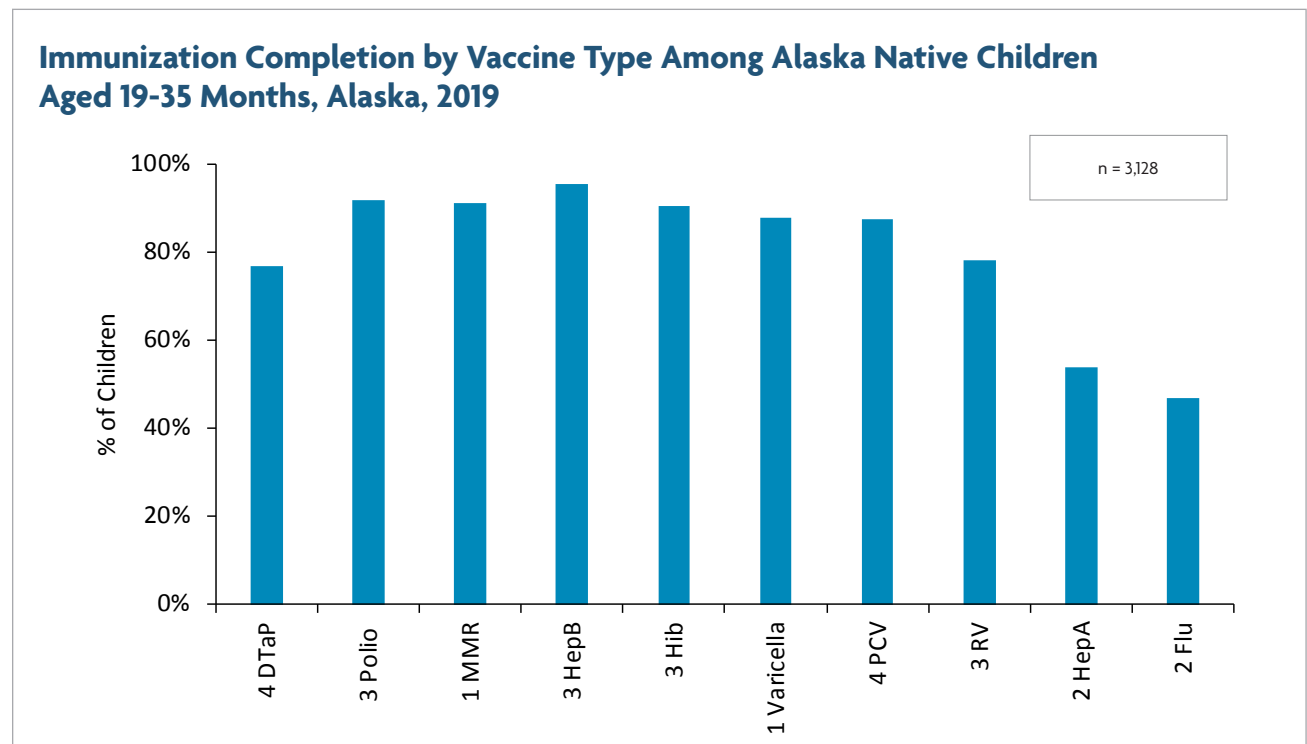
Summary

- » During 2019, about three out of four (72.6%) Alaska Native children aged 19–35 months had received the recommended childhood vaccination series.
- » During 2019, among Alaska Native children aged 19–35 months, individual vaccine coverage for the 4:3:1:3:3:1:4 series ranged from 76.7% for DTaP to 95.5% for HepB.
- » Over three out of four (78.1%) Alaska Native children aged 19–35 months completed the rotavirus vaccine series and over one in two (53.8%) completed the HepA series in 2019.
- » Close to half (46.8%) of Alaska Native children aged 19–35 months had received two doses of influenza vaccine in 2019.

Childhood Immunizations



Data Source: Indian Health Service, National Immunization Reporting System; Centers for Disease Control & Prevention, National Immunization Survey Table C-129



Data Source: Indian Health Service, National Immunization Reporting System

Note: Indian Health Service Immunization Program data is reported for the end of each fiscal year quarter 1 (ending December 31). National Immunization Survey (NIS) data is reported by calendar year (January-December).

* Vaccination coverage estimates for Alaska total population and U.S. total population are presented by birth year (birth cohort) rather than survey year. Because of the survey age eligibility range of 19-35 months, children born in three different calendar years appear in the data for each survey year. To estimate vaccination coverage among children born in a particular year, multiple survey years of data were combined and then stratified by birth year (birth cohort).

Childhood Immunizations

Table C-129*: 4:3:1:3:3:1:4 Series Completion Among Children Age 19-35 Months, 2010-2019

Data Source: Indian Health Service, National Immunization Reporting System; Centers for Disease Control & Prevention, National Immunization Survey

	Alaska Native People Statewide		Alaska Total Population (All Races)		U.S. All Races	
	Total # Vaccinated	%	%	95% Confidence Interval	%	95% Confidence Interval
2010	2,812	76.9%	65.0%	(58.5%-71.5%)	N/A	N/A
2011	2,389	74.7%	66.7%	(58.9%-74.2%)	74.4%	(72.6%-76.1%)
2012	2,260	72.8%	76.0%	(68.7%-82.7%)	75.9%	(74.3%-77.5%)
2013	1,441	78.4%	65.9%	(58.5%-73.2%)	74.8%	(73.3%-76.3%)
2014	2,075	76.2%	76.1%	(69.3%-82.3%)	74.1%	(72.5%-75.7%)
2015	2,471	75.1%	68.9%	(61.4%-76.1%)	74.9%	(73.3%-76.5%)
2016	2,466	72.3%	67.6%	(59.9%-75.0%)	75.3%	(73.6%-77.0%)
2017	2,458	74.1%	69.0%	(61.2%-76.5%)	74.9%	(73.3%-76.4%)
2018	2,291	72.6%	59.2%	(50.0%-68.6%)	75.4%	(73.5%-77.4%)
2019	2,270	72.6%	N/A	N/A	N/A	N/A

Note: Vaccination coverage estimates for Alaska total population and U.S. total population are presented by birth year (birth cohort) rather than survey year. Because of the survey age eligibility range of 19-35 months, children born in three different calendar years appear in the data for each survey year. To estimate vaccination coverage among children born in a particular year, multiple survey years of data were combined and then stratified by birth year (birth cohort).

40 Centers for Disease Control and Prevention. (2021). Recommended Child and Adolescent Immunization Schedule For Ages 18 Years or Younger, United States, 2021. Retrieved from www.cdc.gov/vaccines/schedules/hcp/imz/child-adolescent.html