

COVID-19 Vaccination Demographic Data Analysis December 15, 2020 – February 14, 2021

Snohomish County COVID-19 Vaccination Demographic Data Analysis: December 15, 2020 through February 14, 2021

Snohomish County is currently in phase 1B tier 1 of COVID-19 vaccination distribution plan. The Washington State Department of Health defines phase 1B tier 1 as: vaccine is available to anyone 65 and older, and all people 50 and older who also live in a multigenerational household. This is in addition to populations eligible during phase 1A including health care workers at high risk for COVID-19 infection, first responders, people who live or work in long-term care facilities, and all other workers in health settings who are at risk of COVID-19.

The race and ethnicity profile of Snohomish County shows that the county is predominantly white, non-Hispanic (69%) (table 1). Asian's are the second most prevalent race seen in the county (11%) followed closely by all-race Hispanics. The age distribution of Snohomish County residents shows the largest percent of the population is working-aged adults between the ages of 20 and 64 years old (60%) (table 2). Older adults over 65 years-old make up 16% of the population and children and adolescents (<20 years-old) make up almost one-fourth of the Snohomish County population. Males and females are evenly split, each making up 50% of the population in Snohomish County (table 3).

Non-Hispanic Whites are the most vaccinated group in Snohomish County by count, but American Indians/Alaska Natives are the most vaccinated group by rate per 100,000 (figure 1). Vaccine up-take among races was compared to non-Hispanic Whites. Hispanics, Asians and African Americans had significantly lower rates of COVID-19 vaccination compared to non-Hispanic Whites (table 1). American Indians/Alaska Natives (AI/AN) and Native Hawaiian/Pacific Islanders (NH/PI) had significantly higher rates of vaccination. These differences are statistically significant ($p < 0.05$). The increase in AI/AN may be due to Tribal vaccination campaigns. It is unknown why there are differences among other races, but language barriers, age, mobility and transportation, internet access and fluency, employment, and discretionary time may all play roles in vaccine access.

The current vaccine phase (1b1) is geared toward vaccinating the population with the highest risk of severe COVID-19 illness, hospitalization and death, mainly persons 65+ years of age. Sixty-five years and above is the most vaccinated group in Snohomish County (46%). This is followed by 50-64 year-olds, 35-49 year-old, and 20-34 year-olds respectively. More women than men have been vaccinated in Snohomish County. Age and employment would affect gender rates as women tend to live longer than men, and more women work in healthcare.

Table 1: COVID-19 vaccinations by race and ethnicity, Snohomish County

Race non-Hispanic	Count	Population	Rate per 100,000	Relative Risk	95% CI Lower	CI Upper
African American	1987	25,435	7812.1	0.89	0.85	0.93
American Indian/Alaska Native	1385	9,195	15062.5	1.72	1.63	1.81
Asian	7681	98,685	7783.4	0.89	0.87	0.91
Native Hawaiian or Pacific Islander	546	4,722	11562.9	1.32	1.21	1.43
White	49521	564,701	8769.4	1.0	---	---
Other, not Hispanic	15770	---	---	---	---	---
Ethnicity						
Hispanic	2998	90,576	3309.9	0.38	0.36	0.39
Unknown	7078	---	---	---	---	---
Percent with race/ethnicity data	92%	---	---	---	---	---
TOTAL	86,966	830,500	10,471.5	---	---	---

Data source: Washington State Immunization Information System (WAIIS). Population data from Washington State Office of Financial Management.

Figure 1: COVID-19 vaccination rates per 100,000 by Race and Ethnicity, Snohomish County

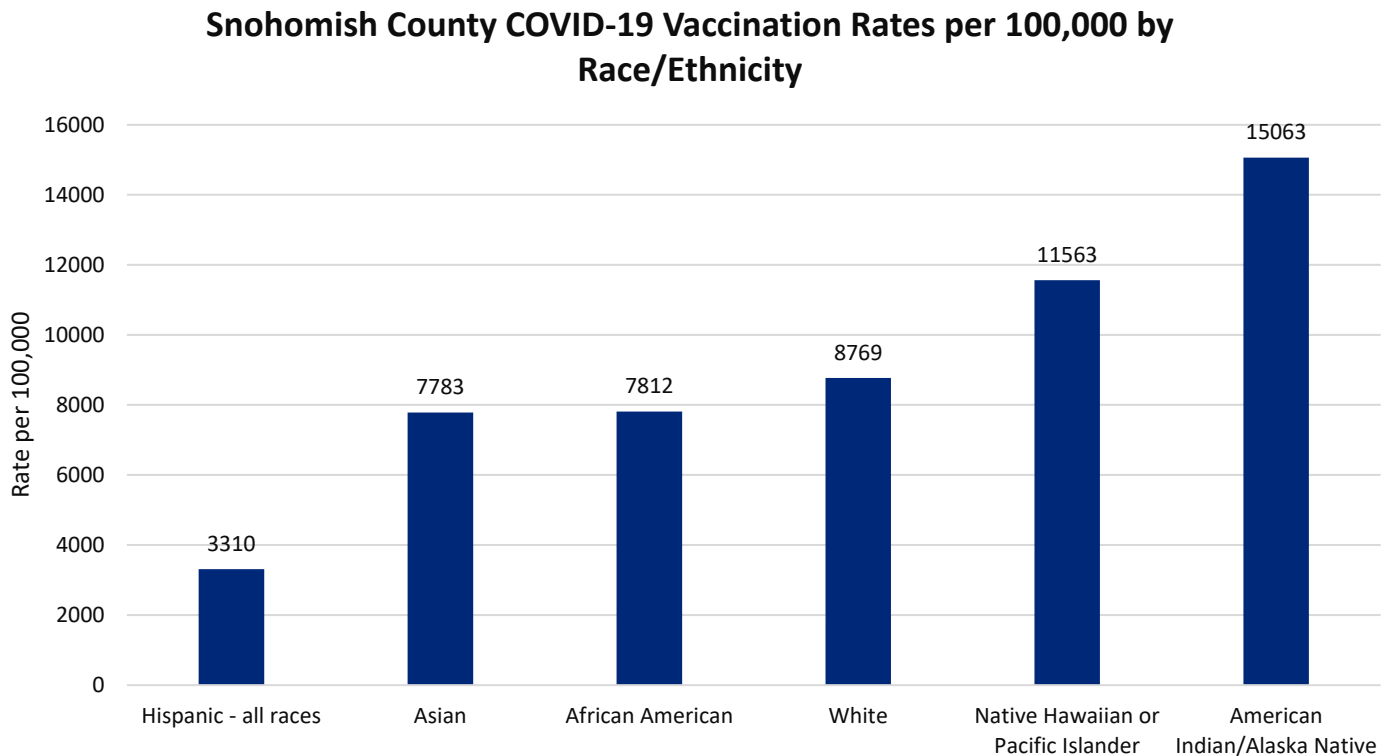


Table 2: COVID-19 vaccination by age group, Snohomish County

Age group	Count	Percent	Population	Rate/100K
<15	--	--	155,643	--
15-19	457	0.5%	46,608	980.5
20 to 34	10,509	12.1%	152,342	6,898.3
35 to 49	15,089	17.4%	176,569	8,545.7
50 to 64	21,013	24.2%	169,752	12,378.6
65+	39,883	45.9%	129,586	30,777.1
Unknown	15	0.02%	--	--
Total	86,966	100.0%	830,500	10,471.5

Data source: Washington State Immunization Information System (WAIS). Population data from Washington State Office of Financial Management.

Table 3: COVID-19 by sex at birth, Snohomish County

Sex at birth	Count	Percent	Population	Rate/100K
Female	53,295	61.3%	414,378	12,861.5
Male	33,405	38.4%	416,122	8027.7
Unknown	266	0.3%	---	---
Total	86,966	---	830,500	10,471.5

Data source: Washington State Immunization Information System (WAIS). Population data from Washington State Office of Financial Management.