

A STATE-LEVEL LOOK AT FLU VACCINATION RATES **AMONG KEY POPULATION SUBGROUPS**

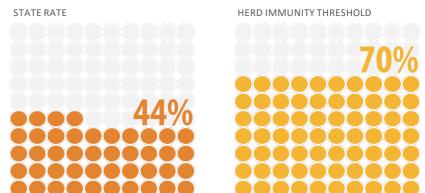
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

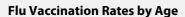
Minnesota

Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being vaccinated. For simplicity, we use the lower end of the target range (70%) as a comparison for these state profiles.

Using data from the U.S. Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) survey, these profiles give a deeper look into flu vaccination rates across the states among U.S adults (age 18 +) as a proxy to identify population subgroups that may be harder to reach with a COVID-19 vaccine

State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold







OTHER/MULTIPLE

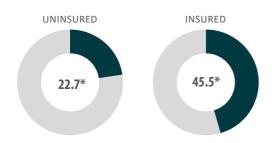
Significantly below the U.S. rate.

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Flu Vaccination Rates by Insurance Status



Flu Vaccination Rates by Household Income

37.3°

Flu Vaccination Rates by Race/Ethnicity



Significantly above the U.S. rate.

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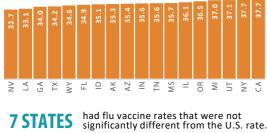
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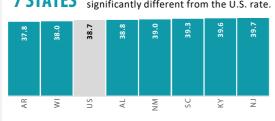
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State vs. National Adult Flu Vaccination Rates

had flu vaccine rates significantly below the U.S. rate.







27 STATES and D.C. had flu vaccine rates significantly above the U.S. rate.



CLICK HERE

to access SHADAC's related brief: Anticipating COVID-19 Vaccination Challenges through Flu Vaccination Patterns

CLICK HERE

to visit SHADAC's State Health Compare for more data on flu vaccination rates in the states



Not significantly different from the U.S. rate.

^{*} Significantly different from the statewide rate (adults age 18+) at 95% confidence level



A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Minnesota	Minnesota			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.6		4.9*	38.7	
Age					
18-39	34.4	-9.2*	5.9*	28.5	-10.2*
40-64	42.4	-1.2*	5.2*	37.2	-1.5*
65+	62.1	18.5*	2.8*	59.4	20.7*
Race/Ethnicity					
White	45.1	1.5*	3.4*	41.7	3.0*
Black/African American	35.8	-7.9*	3.0	32.8	-5.9*
Hispanic	33.6	-10.1*	2.6	30.9	-7.7*
Asian/Pacific Islander	38.6	-5.1*	-2.8	41.4	2.7*
American Indian/Alaska Native	38.9	-4.7	5.1	33.9	-4.8*
Other/multiple	37.3	-6.3*	2.5	34.9	-3.8*
Sex					
Male	38.7	-4.9*	3.3*	35.4	-3.3*
Female	48.4	4.8*	6.6*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	40.9	-2.7*	5.5*	35.4	-3.3*
1+ chronic conditions	54.5	10.9*	5.4*	49.1	10.5*
Health Insurance Coverage					
Uninsured	22.7	-20.9*	5.1*	17.6	-21.1*
Insured	45.5	1.9*	3.9*	41.6	2.9*
Access to Care					
No personal doctor	25.4	-18.2*	5.3*	20.1	-18.6*
Has personal doctor	49.6	6.0*	5.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.1		5.0*	40.2	
Less than high school	37.2	-7.9*	3.2*	34.0	-6.1*
High school graduate	38.3	-6.9*	2.7*	35.6	-4.6*
Some college or associate's degree	43.4	-1.8*	4.6*	38.8	-1.4*
Bachelor's degree or higher	53.2	9.8*	5.3*	47.9	9.2*
Household Income					
Less than \$25,000	39.4	-4.2*	4.6*	34.8	-3.9*
\$25,000 to \$49,999	40.6	-3.0*	4.1*	36.5	-2.2*
\$50,000 to \$74,999	43.5	-0.1	4.9*	38.6	-0.1
\$75,000 or more	47.3	3.7*	4.5*	42.8	4.1*

Notes: Adults defined as 18 years of age and above, except where explicitly noted under the educational attainment. All differences are statistically significant at the 95% confidence level. Source: SHADAC analysis of the 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) public use files on statehealthcompare.shadac.org