



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

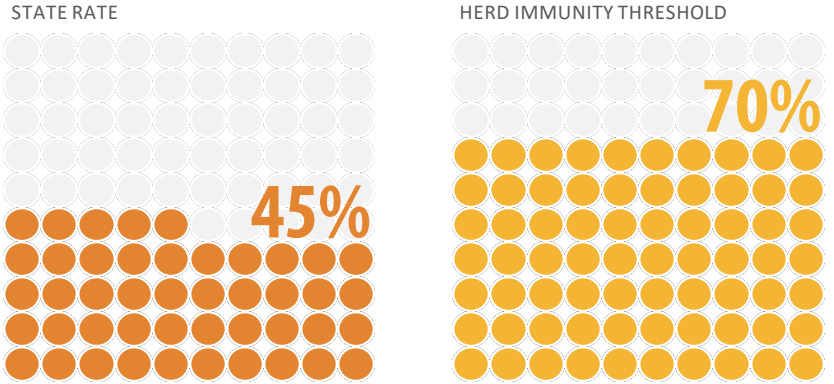
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

## Maryland

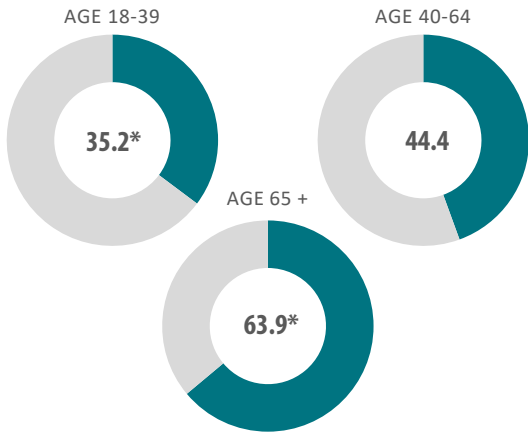
Though there is no consensus on one singular figure needed to achieve what is commonly known as “herd immunity” (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being 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.

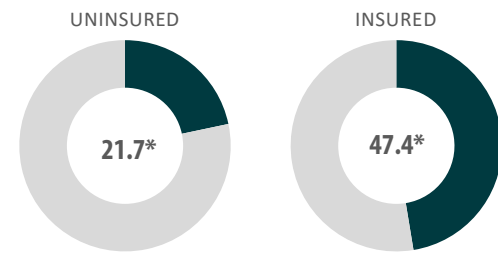
### State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



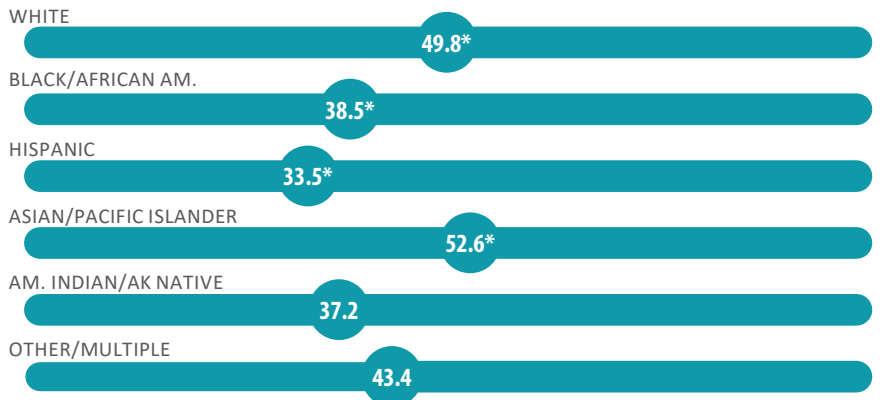
### Flu Vaccination Rates by Age



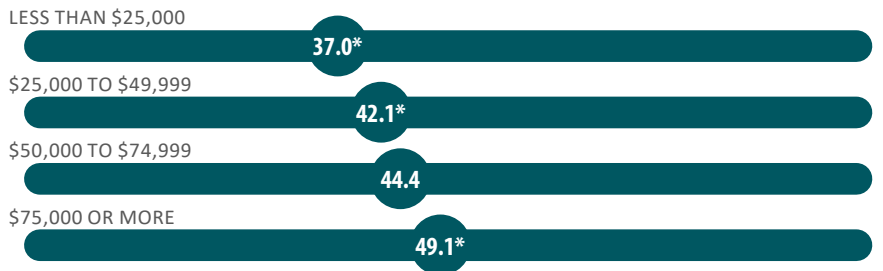
### Flu Vaccination Rates by Insurance Status



### Flu Vaccination Rates by Race/Ethnicity

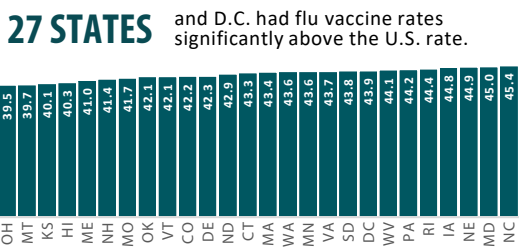
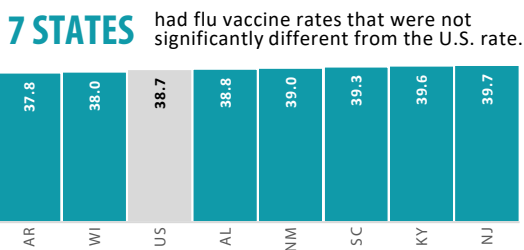
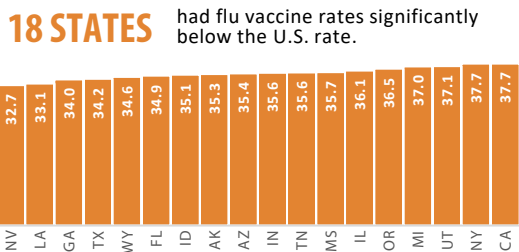


### Flu Vaccination Rates by Household Income

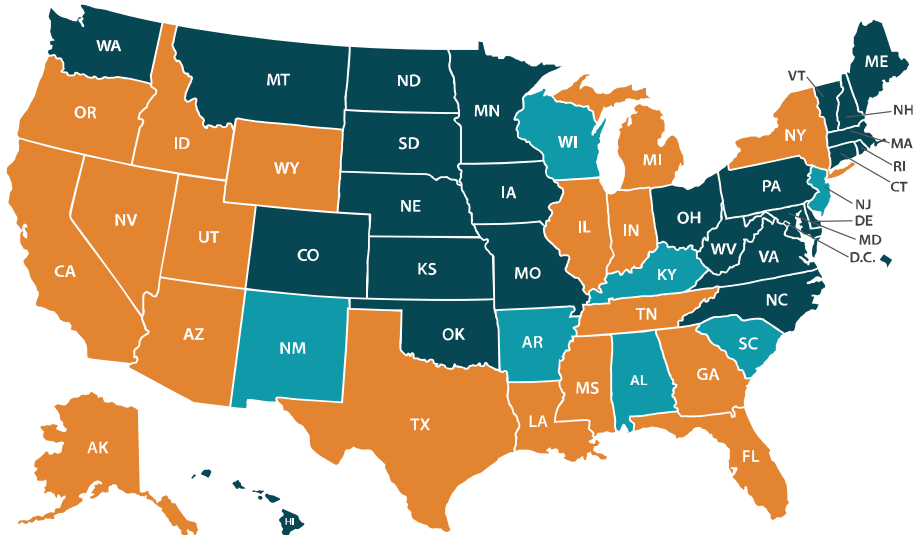


\* Significantly different from the statewide rate (adults age 18+) at 95% confidence level.

### State vs. National Adult Flu Vaccination Rates



Significantly below the U.S. rate. Significantly above the U.S. rate. Not significantly different from 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





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

Maryland	Maryland			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
<b>All Adults Age 18+</b>	45.0		6.4*	38.7	
<b>Age</b>					
18-39	35.2	-9.8*	6.7*	28.5	-10.2*
40-64	44.4	-0.6	7.3*	37.2	-1.5*
65+	63.9	18.9*	4.5*	59.4	20.7*
<b>Race/Ethnicity</b>					
White	49.8	4.8*	8.1*	41.7	3.0*
Black/African American	38.5	-6.6*	5.7*	32.8	-5.9*
Hispanic	33.5	-11.5*	2.6	30.9	-7.7*
Asian/Pacific Islander	52.6	7.6*	11.2*	41.4	2.7*
American Indian/Alaska Native	37.2	-7.9	3.3	33.9	-4.8*
Other/multiple	43.4	-1.6	8.6*	34.9	-3.8*
<b>Sex</b>					
Male	41.9	-3.2*	6.5*	35.4	-3.3*
Female	48.1	3.0*	6.3*	41.8	3.1*
<b>Chronic Condition Status</b>					
No chronic conditions	42.4	-2.7*	7.0*	35.4	-3.3*
1+ chronic conditions	54.0	8.9*	4.8*	49.1	10.5*
<b>Health Insurance Coverage</b>					
Uninsured	21.7	-23.4*	4.1*	17.6	-21.1*
Insured	47.4	2.4*	5.8*	41.6	2.9*
<b>Access to Care</b>					
No personal doctor	24.0	-21.0*	3.9*	20.1	-18.6*
Has personal doctor	49.1	4.0*	5.0*	44.1	5.4*
<b>Educational Attainment (Age 25+)</b>					
<i>All Adults Age 25+</i>	46.3		6.2*	40.2	
Less than high school	34.6	-11.7*	0.6	34.0	-6.1*
High school graduate	40.3	-6.1*	4.7*	35.6	-4.6*
Some college or associate's degree	43.8	-2.6*	5.0*	38.8	-1.4*
Bachelor's degree or higher	54.8	11.1*	6.9*	47.9	9.2*
<b>Household Income</b>					
Less than \$25,000	37.0	-8.0*	2.3*	34.8	-3.9*
\$25,000 to \$49,999	42.1	-2.9*	5.6*	36.5	-2.2*
\$50,000 to \$74,999	44.4	-0.6	5.8*	38.6	-0.1
\$75,000 or more	49.1	4.0*	6.3*	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](http://statehealthcompare.shadac.org)