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.

Michigan

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.

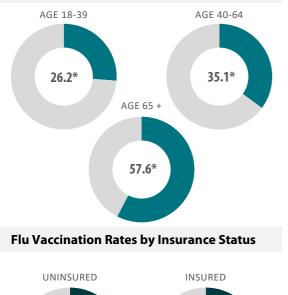
Using data from the U.S. Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) survey, these profiles give a deeper look into flu vaccination rates across the states among U.S adults (age 18 +) as a proxy to identify population subgroups that may be harder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

Flu Vaccination Rates by Age

GOT MY FLU

Innin

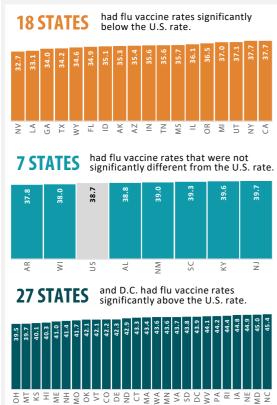
VACCINE



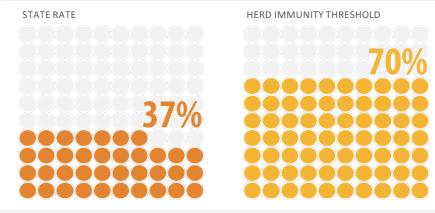


* Significantly different from the statewide rate (adults age 18+) at 95% confidence level.

State vs. National Adult Flu Vaccination Rates



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

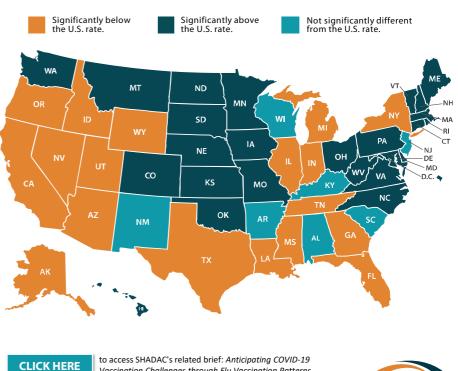


Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Household Income





Vaccination Challenges through Flu Vaccination Patterns to visit SHADAC's State Health Compare for more data on flu vaccination rates in the states

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I GOT MY FLU

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.

Michigan		Michigan			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults	
All Adults Age 18+	37.0		-1.7*	38.7		
Age						
18-39	26.2	-10.8*	-2.3*	28.5	-10.2*	
40-64	35.1	-1.9*	-2.1*	37.2	-1.5*	
65+	57.6	20.6*	-1.8*	59.4	20.7*	
Race/Ethnicity						
White	39.5	2.4*	-2.2*	41.7	3.0*	
Black/African American	27.6	-9.4*	-5.2*	32.8	-5.9*	
Hispanic	26.5	-10.5*	-4.5*	30.9	-7.7*	
Asian/Pacific Islander	40.0	3.0	-1.3	41.4	2.7*	
American Indian/Alaska Native	25.1	-11.9*	-8.8*	33.9	-4.8*	
Other/multiple	30.3	-6.7*	-4.5*	34.9	-3.8*	
Sex						
Male	34.1	-2.9*	-1.3*	35.4	-3.3*	
Female	39.7	2.7*	-2.1*	41.8	3.1*	
Chronic Condition Status						
No chronic conditions	33.7	-3.3*	-1.7*	35.4	-3.3*	
1+ chronic conditions	46.0	9.0*	-3.2*	49.1	10.5*	
Health Insurance Coverage						
Uninsured	14.8	-22.2*	-2.8*	17.6	-21.1*	
Insured	39.0	2.0*	-2.6*	41.6	2.9*	
Access to Care						
No personal doctor	16.0	-21.0*	-4.1*	20.1	-18.6*	
Has personal doctor	40.7	3.7*	-3.4*	44.1	5.4*	
Educational Attainment (Age 25+)						
All Adults Age 25+	38.6		-1.6*	40.2		
Less than high school	27.7	-10.8*	-6.3*	34.0	-6.1*	
High school graduate	34.8	-3.7*	-0.7	35.6	-4.6*	
Some college or associate's degree	37.8	-0.8	-1.0	38.8	-1.4*	
Bachelor's degree or higher	46.9	9.1*	-1.1	47.9	9.2*	
Household Income						
Less than \$25,000	32.4	-4.6*	-2.3*	34.8	-3.9*	
\$25,000 to \$49,999	36.6	-0.4	0.1	36.5	-2.2*	
\$50,000 to \$74,999	38.1	1.1	-0.5	38.6	-0.1	
\$75,000 or more	40.4	3.4*	-2.4*	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