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.

Mississippi

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.
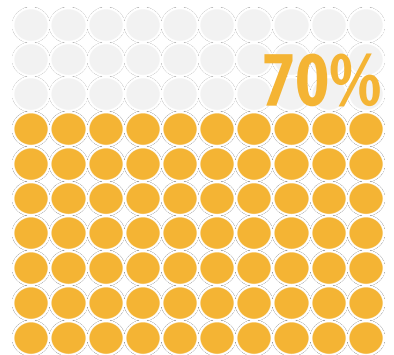
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold
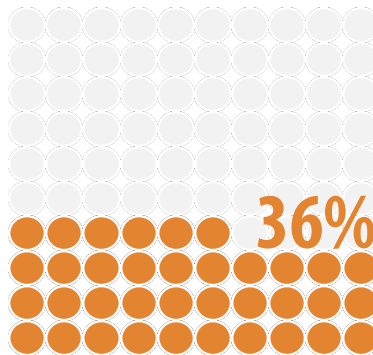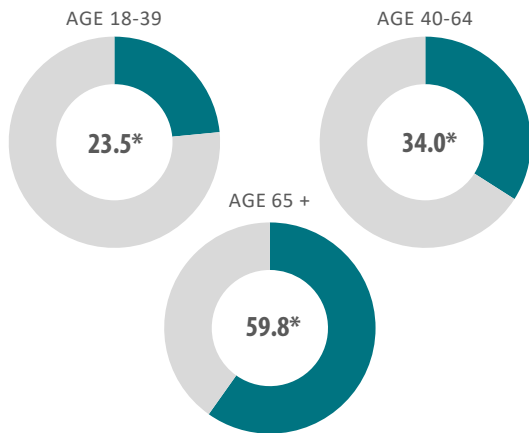
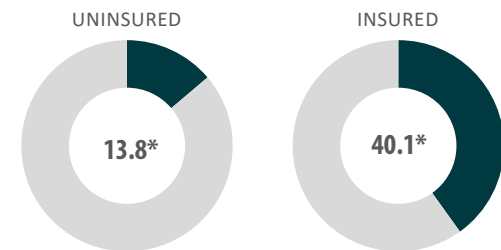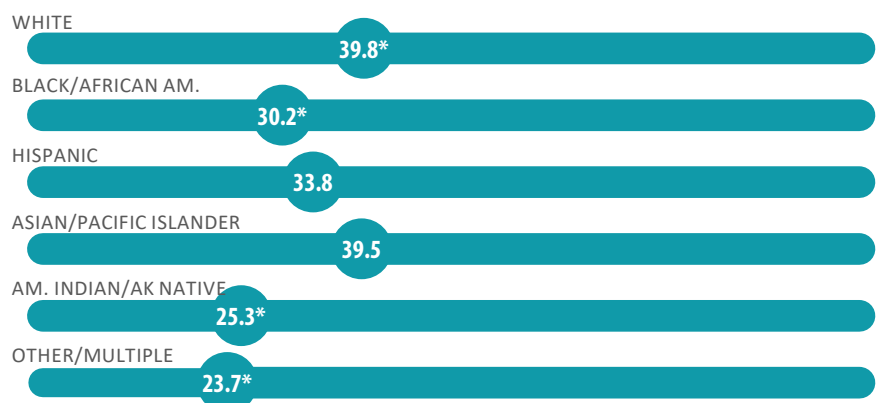STATE RATE
36%

HERD IMMUNITY THRESHOLD
70%

Flu Vaccination Rates by Age

AGE 18-39
23.5*

AGE 40-64
34.0*

AGE 65 +
59.8*

Flu Vaccination Rates by Race/Ethnicity

WHITE **39.8***

BLACK/AFRICAN AM. **30.2***

HISPANIC **33.8**

ASIAN/PACIFIC ISLANDER **39.5**

AM. INDIAN/AK NATIVE **25.3***

OTHER/MULTIPLE **23.7***

Flu Vaccination Rates by Insurance Status

UNINSURED
13.8*

INSURED
40.1*

Flu Vaccination Rates by Household Income

LESS THAN $25,000 **32.3***

$25,000 TO $49,999 **35.2**

$50,000 TO $74,999 **35.7**

$75,000 OR MORE **41.9***
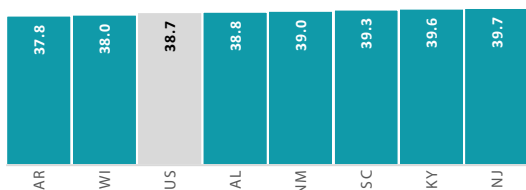
* Significantly different from the statewide rate (adults age 18+) at 95% confidence level.

State vs. National Adult Flu Vaccination Rates

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

NV	LA	GA	TX	WY	FL	ID	AK	AZ	IN	TN	MS	IL	OR	MI	UT	NY	CA
32.7	33.1	34.0	34.2	34.6	34.9	35.1	35.3	35.4	35.6	35.6	35.7	36.1	36.5	37.0	37.1	37.7	37.7
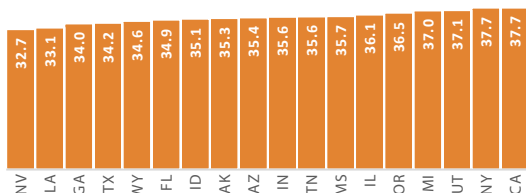
7 STATES had flu vaccine rates that were not significantly different from the U.S. rate.

AR	WI	US	AL	NM	SC	KY	NJ
37.8	38.0	38.7	38.8	39.0	39.3	39.6	39.7

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

OH	MT	KS	HI	ME	NH	MO	OK	VT	CO	DE	ND	CT	MA	WA	MN	VA	SD	DC	WV	PA	RI	IA	NE	MD	NC
39.5	39.7	40.1	40.3	41.0	41.4	41.7	42.1	42.1	42.2	42.3	43.3	43.4	43.4	43.6	43.6	43.7	43.8	43.9	43.9	44.2	44.2	44.4	44.8	44.9	45.0	45.4

Legend:
- Significantly below the U.S. rate.
- Significantly above the U.S. rate.
- Not significantly different from the U.S. rate.
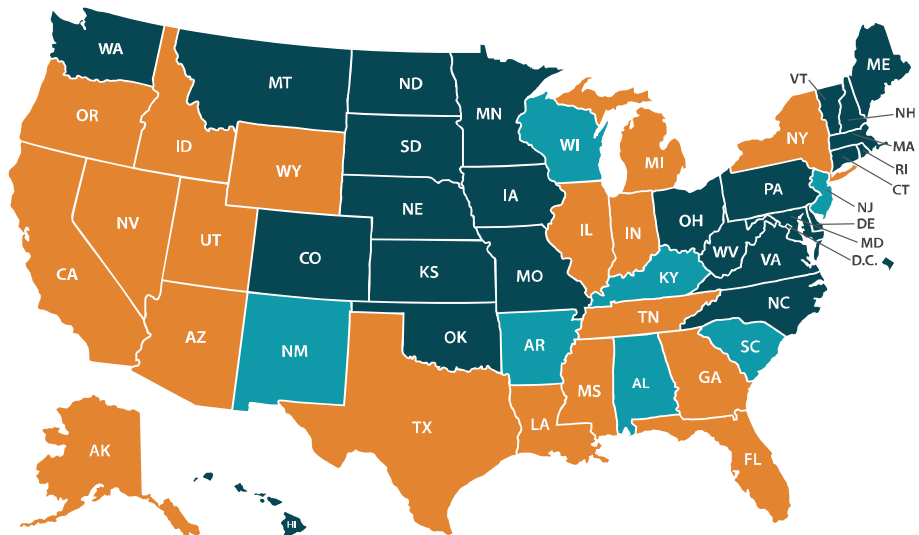
CLICK HERE to access SHADAC's related brief: *Anticipating COVID-19 Vaccination Challenges through Flu Vaccination Patterns*

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

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Mississippi	Mississippi			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	35.7		-3.0*	38.7	
Age					
18-39	23.5	-12.3*	-5.1*	28.5	-10.2*
40-64	34.0	-1.7*	-3.1*	37.2	-1.5*
65+	59.8	24.1*	0.4	59.4	20.7*
Race/Ethnicity					
White	39.8	4.0*	-2.0*	41.7	3.0*
Black/African American	30.2	-5.6*	-2.6*	32.8	-5.9*
Hispanic	33.8	-2.0	2.8	30.9	-7.7*
Asian/Pacific Islander	39.5	3.8	-1.9	41.4	2.7*
American Indian/Alaska Native	25.3	-10.4*	-8.6	33.9	-4.8*
Other/multiple	23.7	-12.0*	-11.2*	34.9	-3.8*
Sex					
Male	32.7	-3.0*	-2.7*	35.4	-3.3*
Female	38.6	2.9*	-3.2*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	31.2	-4.6*	-4.3*	35.4	-3.3*
1+ chronic conditions	47.5	11.8*	-1.7	49.1	10.5*
Health Insurance Coverage					
Uninsured	13.8	-21.9*	-3.8*	17.6	-21.1*
Insured	40.1	4.4*	-1.5*	41.6	2.9*
Access to Care					
No personal doctor	17.8	-17.9*	-2.3*	20.1	-18.6*
Has personal doctor	41.6	5.9*	-2.5*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	37.9		-2.2*	40.2	
Less than high school	35.5	-2.5	1.4	34.0	-6.1*
High school graduate	35.7	-2.3*	0.1	35.6	-4.6*
Some college or associate's degree	36.4	-1.6*	-2.4*	38.8	-1.4*
Bachelor's degree or higher	45.4	9.0*	-2.6*	47.9	9.2*
Household Income					
Less than $25,000	32.3	-3.5*	-2.5*	34.8	-3.9*
$25,000 to $49,999	35.2	-0.5	-1.3	36.5	-2.2*
$50,000 to $74,999	35.7	0.0	-2.9	38.6	-0.1
$75,000 or more	41.9	6.2*	-0.9	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

I GOT MY FLU VACCINE!