## **AsthmaStats**

## Flu Vaccination Among Adults With Current Asthma, 2020

## More adults with asthma than adults without asthma reported receiving a flu vaccine

Influenza virus infection in lungs can worsen asthma symptoms, trigger asthma attacks, and lead to pneumonia.\* Vaccination (shot or nasal spray) is the best protection against flu. Centers for Disease Control and Prevention (CDC) recommends that people 6 months of age and older get a flu vaccination\* every year to protect against getting a flu infection and complications from it. The flu nasal spray is only approved for ages 2–49 years.\*

In 2020, a greater percentage of adults (aged 18 years and older) with asthma reported getting a flu vaccine in the past 12 months (53.7%) than did adults without asthma (45.6%). Also, flu vaccination was higher among females (sex at birth), adults aged >54 years, and non-Hispanic White persons compared with males, people aged <55 years, and NH Black persons or Hispanic persons (respectively) (Table 1). Flu vaccination percentage varied by state. The percentage of adults with current asthma who reported receiving a flu vaccine in the past 12 months ranged from 43.4% in Florida to 64.8% in Massachusetts (Table 2).

Table 1. Percentage With Flu Vaccination by Demographics and Asthma Status, 2020

	All adults		Adults with current asthma		Adults without current asthma	
Characteristics	Percent	95% CI	Percent	95% CI	Percent	95% CI
Total	46.3	(45.9–46.7)	53.7	(52.4–54.9)	45.6	(45.2-46.0)
Male	42.4	(41.8–42.9)	49.5	(47.5–51.6)	41.9	(41.3-42.5)
Female	50.1	(49.5–50.6)	55.8	(54.3-57.3)	49.3	(48.8–49.9)
Age (year)						
Age 18–34	35.2	(34.5-36.0)	41.1	(38.7-43.6)	34.7	(34.0-35.5)
Age 35–54	39.7	(39.0-40.4)	47.9	(45.8–50.0)	38.9	(38.1–39.6)
Age 55–64	50.2	(49.4–51.1)	62.2	(59.5-64.8)	48.9	(48.0-49.9)
Age 65+	67.3	(66.6–68.0)	73.8	(71.7–75.8)	66.7	(66.0-67.4)
Race & Ethnicity						
NH White	50.9	(50.5–51.3)	56.6	(55.2-57.9)	50.3	(49.9–50.7)
NH Black	37.7	(36.6–38.8)	46.1	(42.7–49.5)	36.7	(35.5–37.8)
Hispanic	35.4	(34.2–36.7)	47.3	(42.9–51.8)	34.6	(33.3–35.9)
NH Other	47.2	(45.6-48.9)	57.4	(51.6-63.0)	46.5	(44.7–48.3)

Abbreviation: NH, Non-Hispanic; SE, Standard error; CI, confidence interval

CDC's National Asthma Control Program (NACP) was created in 1999 to help the millions of people with asthma in the United States gain control over their disease. The NACP conducts national asthma surveillance and funds states to help them improve their asthma surveillance and to focus efforts and resources where they are needed.

Data Source: Behavioral Risk Factors Surveillance System (BRFSS), 2020

STATE	Table 2. Flu vaccination <sup>†</sup> among adults aged 18+ years with current asthma <sup>¶</sup>					
	%	95% CI	SE			
Total⁵	53.7	(52.4–54.9)	0.63			
AL	47.7	(41.7–53.8)	3.10			
AK	52.2	(42.8–61.3)	4.77			
AZ	47.3	(42.9–51.8)	2.28			
AR	52.3	(45.6–59.0)	3.44			
CA	55.0	(48.1–61.7)	3.49			
СО	58.3	(54.4–62.1)	1.98			
СТ	62.0	(56.9–66.8)	2.54			
DE	47.7	(40.2–55.2)	3.87			
DC	59.4	(51.9–66.5)	3.75			
FL	43.4	(37.3–49.7)	3.19			
GA	48.9	(42.9–54.8)	3.05			
HI	55.3	(50.2-60.4)	2.61			
ID	49.4	(43.3–55.5)	3.15			
IL	63.6	(56.7–69.9)	3.39			
IN	54.2	(49.8–58.5)	2.22			
IA	54.5	(50.3–58.7)	2.15			
KS	50.7	(46.5-54.9)	2.15			
KY	52.7	(46.6–58.7)	3.11			
LA	45.6	(38.8–52.6)	3.53			
ME	59.7	(54.9-64.2)	2.38			
MD	59.9	(55.7-64.0)	2.11			
MA	64.8	(59.8-69.5)	2.49			
MI	49.9	(45.2–54.7)	2.44			
MN	59.7	(56.2-63.1)	1.75			
MS	49.3	(43.8–54.8)	2.81			
MO	52.2	(47.5–56.9)	2.42			
MT	54.0	(49.1–58.8)	2.47			
NE	54.9	(50.2–59.4)	2.37			
NV	48.4	(40.0–57.0)	4.40			
NH	57.0	(51.7–62.2)	2.70			
NJ	54.9	(50.5–59.3)	2.25			
NM	54.4	(48.4–60.2)	3.04			
NY	52.7	(48.8–56.5)	1.97			
NC	54.6	(49.0–60.1)	2.85			
ND	60.7	(53.0–68.0)	3.86			
OH	49.7	(45.7–53.6)	2.01			
OK	51.9	(46.5–57.3)	2.77			
OR	55.3	(50.4–60.1)	2.46			
PA	56.8	(50.9–62.5)	2.98			
RI	59.5	(53.1–65.6)	3.21			
SC	47.8	(41.3–54.3)	3.36			
SD	63.5	(54.8–71.4)	4.27			
TN	47.1	(40.8–53.6)	3.29			
TX	56.4	(49.8–62.8)	3.34			
UT VT	54.7 60.7	(50.9–58.4) (54.7–66.4)	1.92			
	60.7	` '	2.98			
VA WA	54.8 57.5	(50.0–59.5) (53.8–61.2)	2.45 1.88			
WV	51.0	(46.3–55.6)	2.40			
WI	53.9	(47.4–60.3)	3.31			
WY	44.0	(37.5–50.6)	3.37			
VVI	74.0	(37.3-30.0)	3.37			

<sup>§</sup>Total includes 50 states and District of Columbia



<sup>\*</sup>https://www.cdc.gov/flu/asthma/index.htm

<sup>\*</sup>Includes "yes" response to question "During the past 12 months, have you had either flu vaccine that was sprayed in your nose or flu shot injected into your arm?"

Includes persons who answered "yes" to the questions: "Has a doctor, nurse, or other health professional EVER told you that you had asthma?" and "Do you still have asthma?"