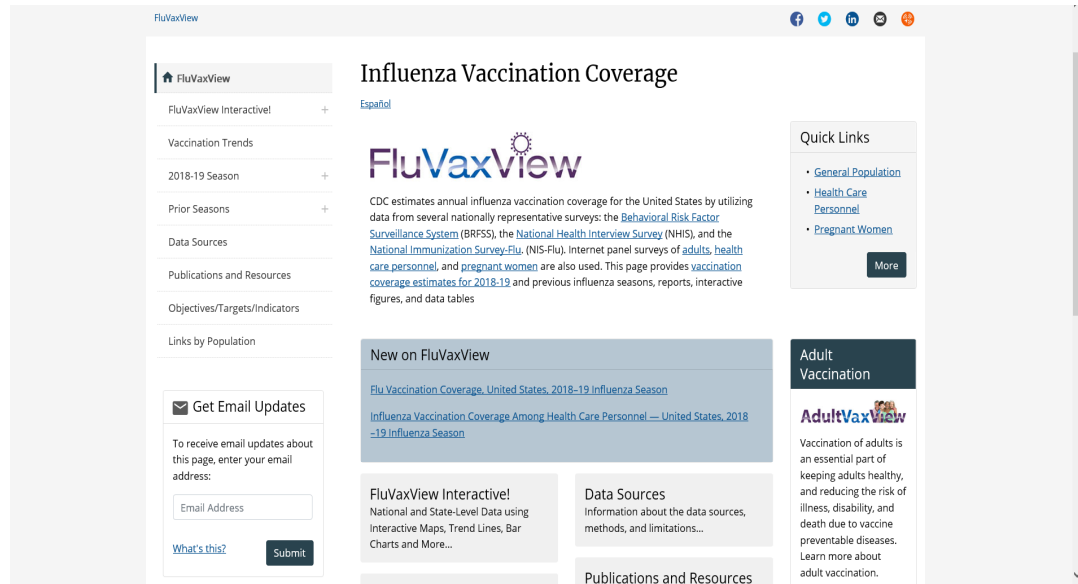


INFLUENZA VACCINATION COVERAGE ESTIMATES FOR THE 2019–20 SEASON: Summary of Online Report

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The screenshot shows the FluVaxView website interface. On the left is a navigation menu with items like 'FluVaxView', 'FluVaxView Interactive!', 'Vaccination Trends', and '2018-19 Season'. The main content area features the title 'Influenza Vaccination Coverage' and the 'FluVaxView' logo. Below the logo is a paragraph of text explaining that CDC estimates annual influenza vaccination coverage for the United States by utilizing data from several nationally representative surveys: the Behavioral Risk Factor Surveillance System (BRFSS), the National Health Interview Survey (NHIS), and the National Immunization Survey-Flu (NIS-Flu). It also mentions internet panel surveys of adults, health care personnel, and pregnant women. A 'Quick Links' sidebar on the right lists 'General Population', 'Health Care Personnel', and 'Pregnant Women'. At the bottom, there are sections for 'New on FluVaxView' with links to reports, 'FluVaxView Interactive!' with a description of national and state-level data, 'Data Sources' with information on data sources and limitations, and 'Publications and Resources'.

Data Sources and Methods

- **National Immunization Survey-Flu (NIS-Flu)**
 - On-going, national list-assisted random-digit-dial cellular telephone survey of households with children.
 - NIS-Child (19–35 months), NIS Teen (13–17 years), and NIS-Child Influenza Module (6–18 months and 3–12 years).
 - Parental report: Has child received flu vaccination since July 1, 2019? (month, year).
 - NIS-Flu interviews conducted October 2019–June 2020.

Data Sources and Methods (2)

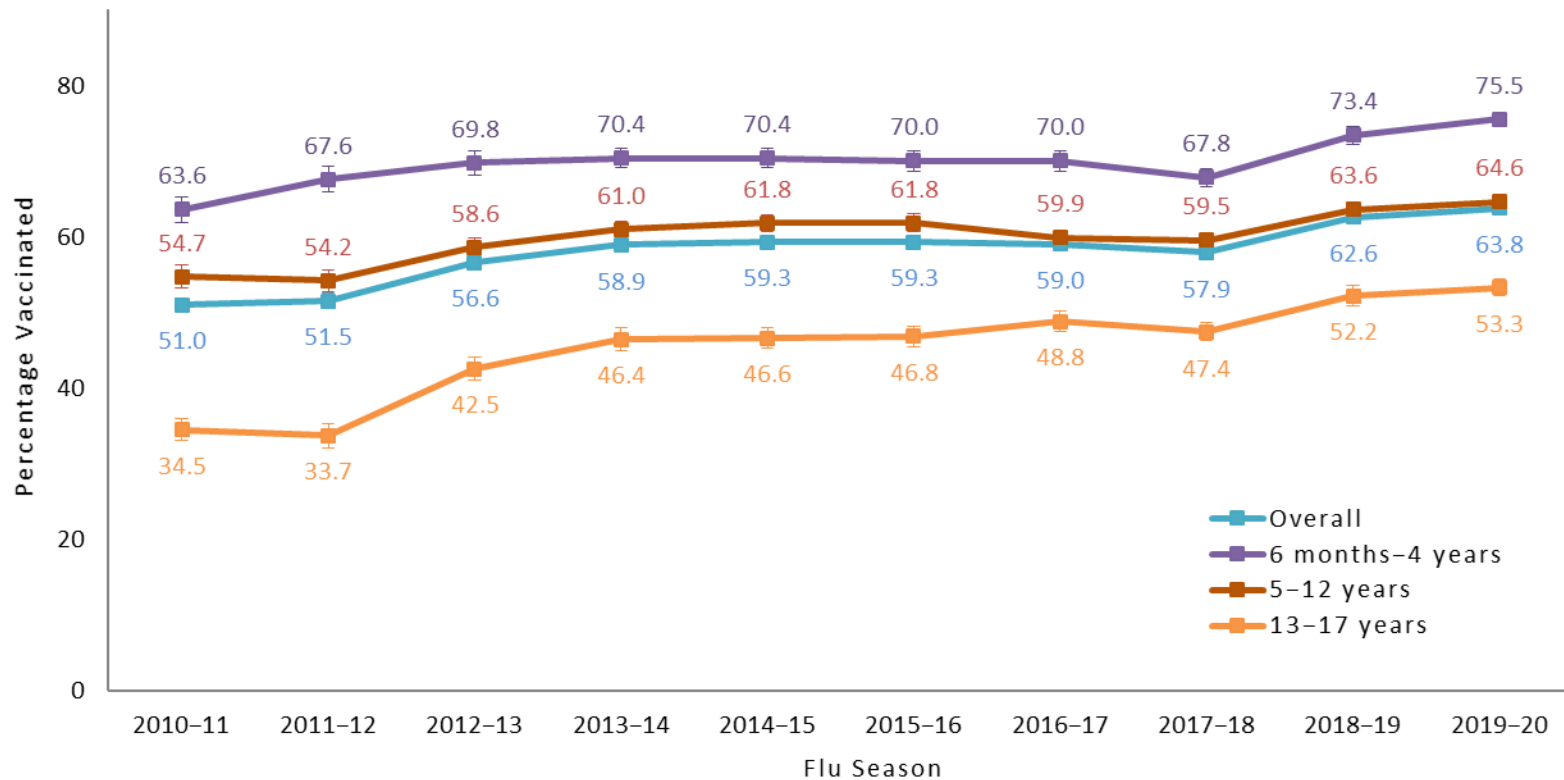
- **Behavioral Risk Factor Surveillance System (BRFSS)**
 - On-going state-based telephone survey of randomly selected persons ≥ 18 years among the non-institutionalized, U.S. population on health conditions and risk behaviors.
 - Self report: Flu vaccination in the past 12 months (month, year).
 - Used interviews conducted September 2019–June 2020.

Data Sources and Methods (3)

■ Analysis

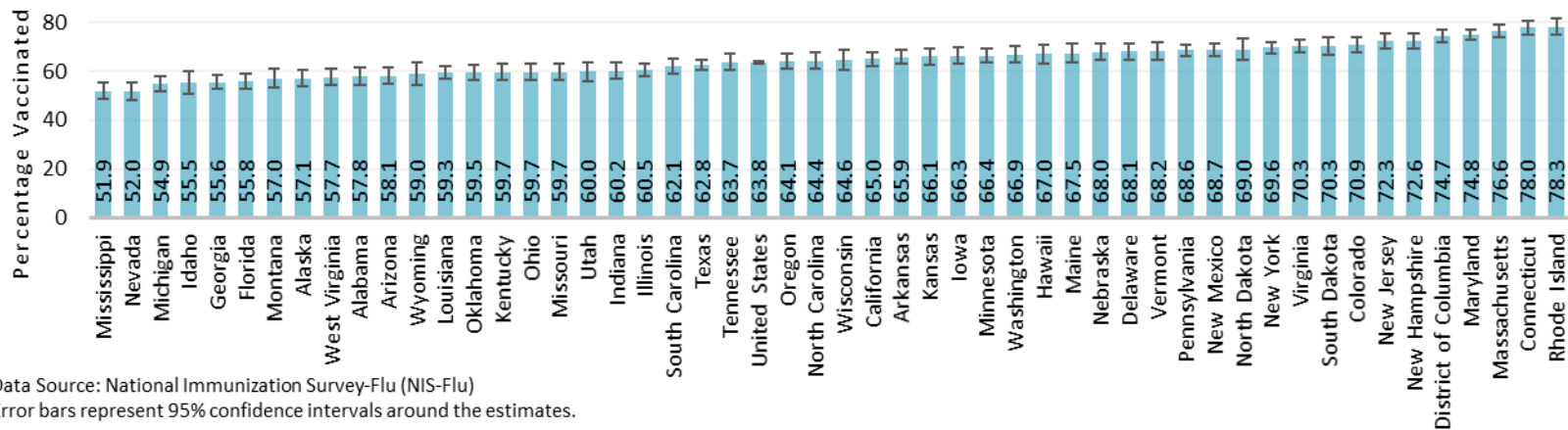
- Kaplan-Meier survival analysis to determine cumulative monthly influenza vaccination coverage of one or more doses received from July 2019–May 2020.
- Coverage estimates calculated for children (6 mos.–17 yrs.) from NIS-Flu and for adults (≥ 18 yrs.) from BRFSS.
- Imputed month of vaccination if it was missing.
- Weighted estimates calculated in SUDAAN to account for complex survey design.
- T-tests ($p < 0.05$) to determine differences between groups and between the 2019–20 and 2018–19 seasons.

**Figure 1. Flu Vaccination Coverage by Age Group,
Children 6 months—17 years, United States, 2010–2020**



Data Source: National Immunization Survey-Flu (NIS-Flu)
Error bars represent 95% confidence intervals around the estimates.

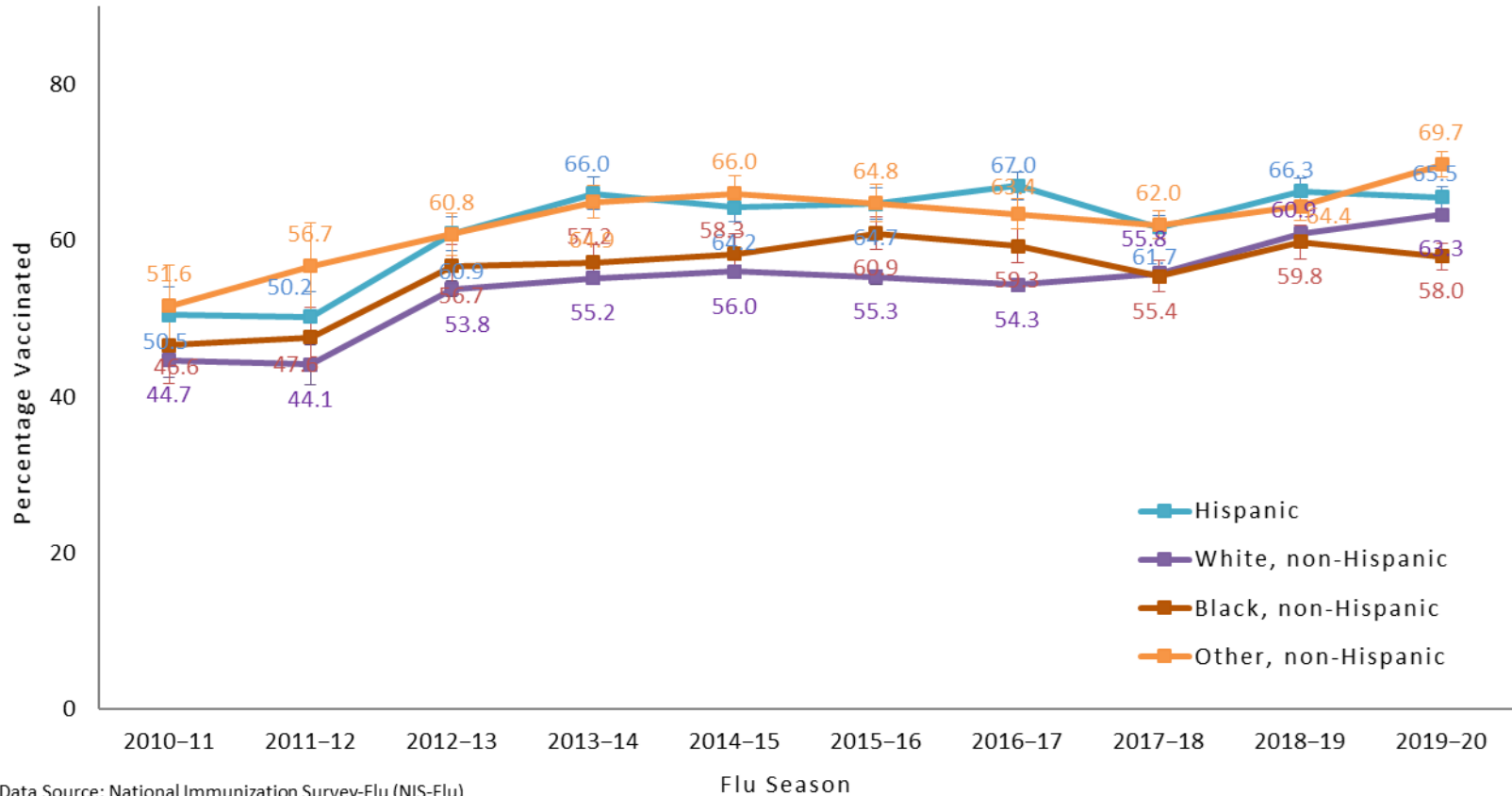
**Figure 2. Flu Vaccination Coverage by State,
Children 6 months—17 years, United States, 2019–20 Season**



Data Source: National Immunization Survey-Flu (NIS-Flu)

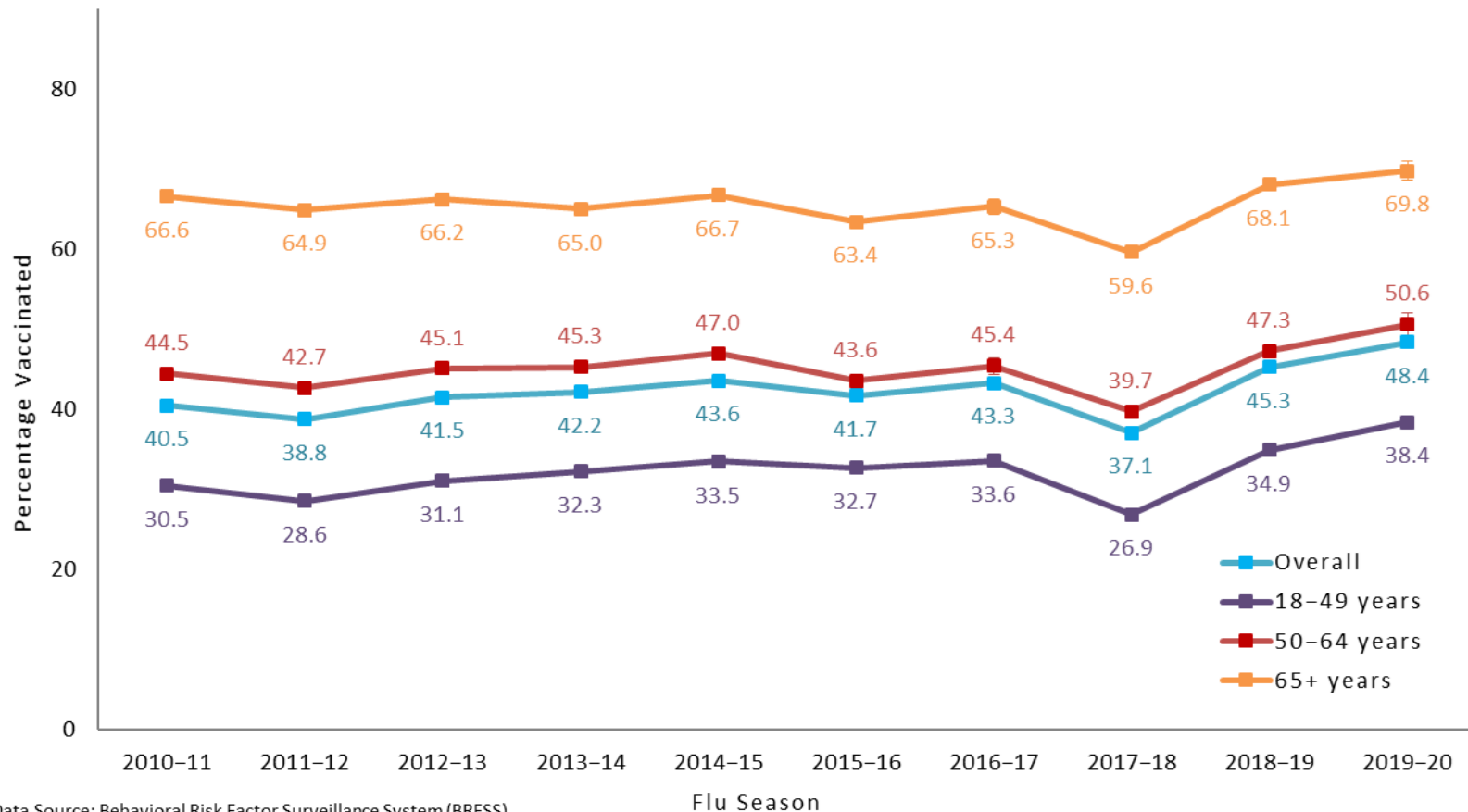
Error bars represent 95% confidence intervals around the estimates.

Figure 3. Flu Vaccination Coverage by Racial/Ethnic Group, Children 6 months—17 years, United States, 2010–2020



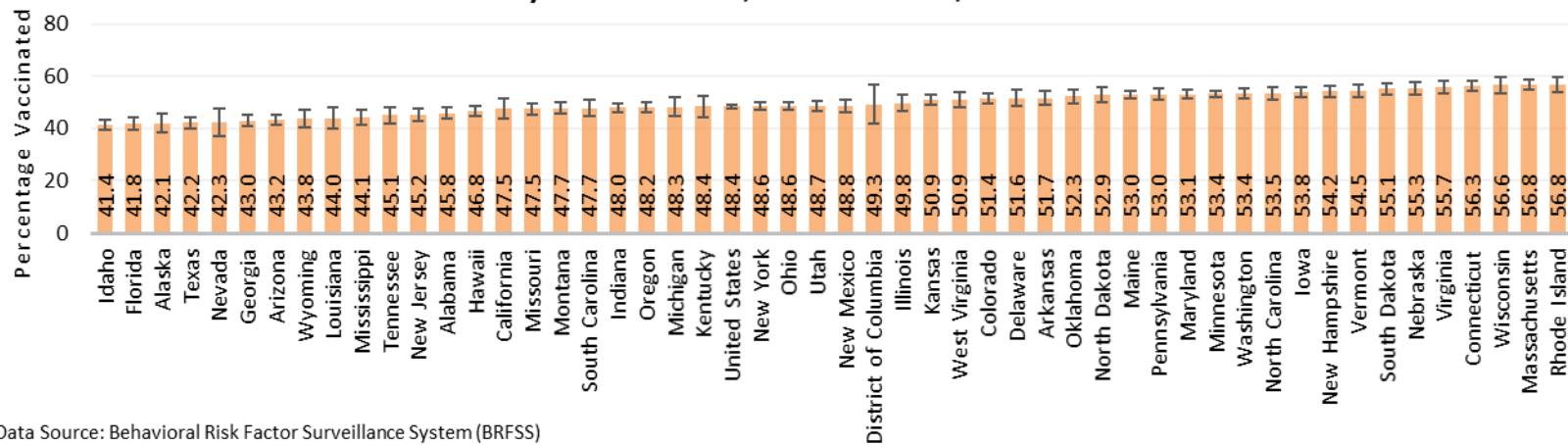
Data Source: National Immunization Survey-Flu (NIS-Flu)
 Error bars represent 95% confidence intervals around the estimates.

Figure 4. Flu Vaccination Coverage by Age Group, Adults 18 years and older, United States, 2010–2020



Data Source: Behavioral Risk Factor Surveillance System (BRFSS)
 Error bars represent 95% confidence intervals around the estimates.

**Figure 5. Flu Vaccination Coverage by State,
Adults 18 years and older, United States, 2019–20 Season***

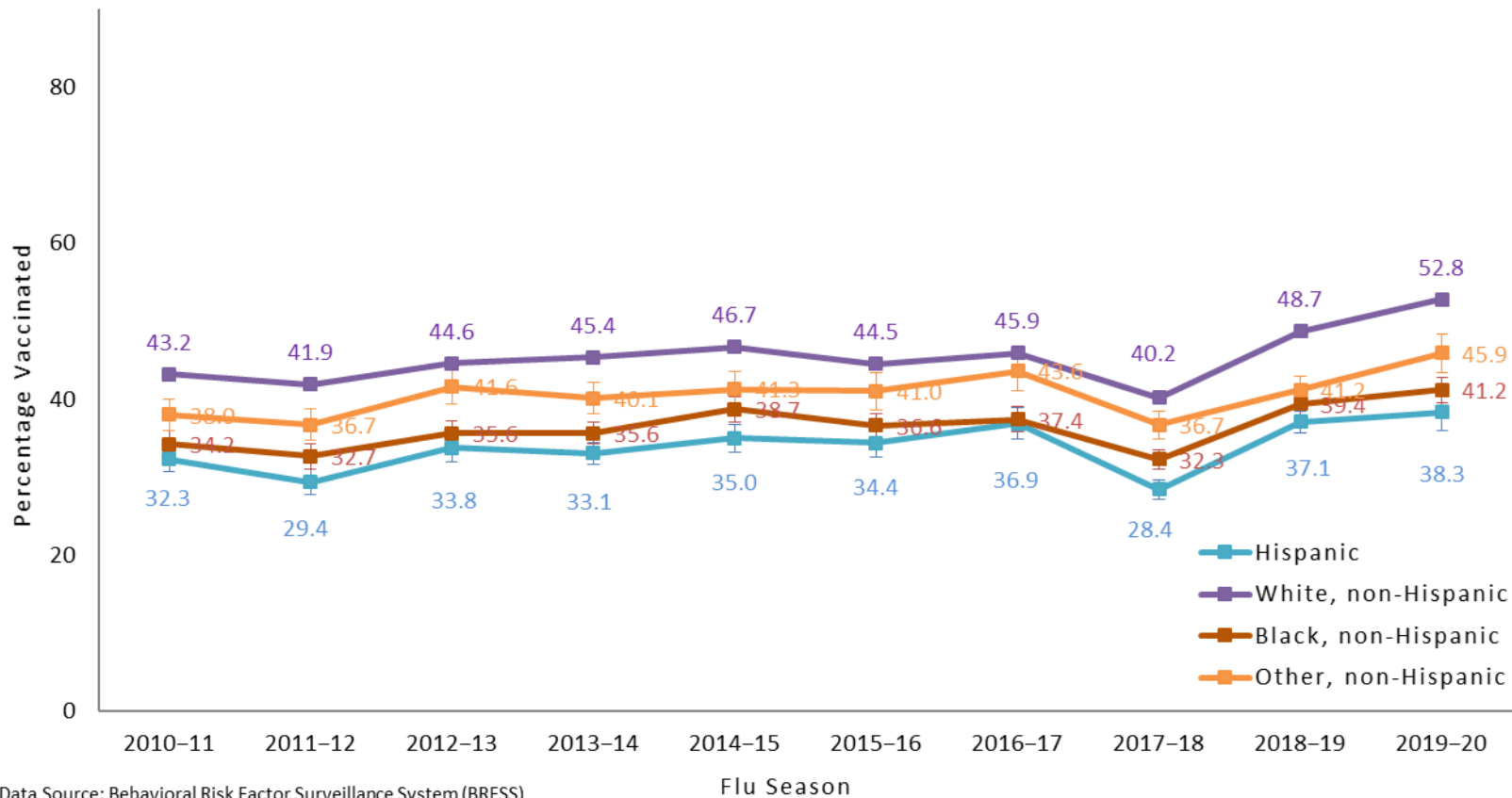


Data Source: Behavioral Risk Factor Surveillance System (BRFSS)

Error bars represent 95% confidence intervals around the estimates.

* Includes flu vaccinations received July 2019 through May 2020, except for the District of Columbia, for which only vaccinations through November 2019 were included (see Methods).

Figure 6. Flu Vaccination Coverage by Racial/Ethnic Group, Adults 18 years and older, United States, 2010–2020



Data Source: Behavioral Risk Factor Surveillance System (BRFSS)
 Error bars represent 95% confidence intervals around the estimates.

Flu Vaccination Coverage* by Age Group, Adults 18 years and older, United States, † Behavioral Risk Factor Surveillance System (BRFSS), 2019-20 Season

Age Group	Unweighted Sample Size	% [‡] ± 95% CI [§]	Difference from the 2018–19 Season ± 95% CI						
Adults (≥18 years)	286,116	48.4 ± 0.6	3.1 ± 0.7						
18–64 years	179,851	42.3 ± 0.8	3.3 ± 1.0						
18–64 years with high risk conditions [¶]	46,291	51.4 ± 1.8	3.5 ± 2.2						
18–64 years without high risk conditions	131,502	39.9 ± 0.8	3.5 ± 1.0						
18–49 years	100,057	38.4 ± 0.8	3.5 ± 1.0						
18–49 years with high risk conditions	17,731	44.4 ± 2.2	4.0 ± 2.7						
18–49 years without high risk conditions	81,027	37.5 ± 1.0	3.7 ± 1.3						
50–64 years	79,794	50.6 ± 1.4	3.3 ± 1.6						
≥65 years	106,265	69.8 ± 1.2	1.7 ± 1.4						

* Estimates of the percentage of people vaccinated are based on interviews conducted beginning September 2019 through June 2020 and reported vaccinations from July 2019 through May 2020.

† Excludes U.S. territories.

‡ Percentage vaccinated. Percentages are weighted to the U.S. population. Month of vaccination was imputed for respondents with missing month of vaccination data.

§ Confidence interval (CI) half-widths.

|| Statistically significant difference between the 2019–20 season and the 2018–19 season by t-test (p<0.05).

¶ Selected high risk conditions includes people with asthma, diabetes, heart disease, chronic obstructive pulmonary disease, or cancers other than skin cancer.

Limitations

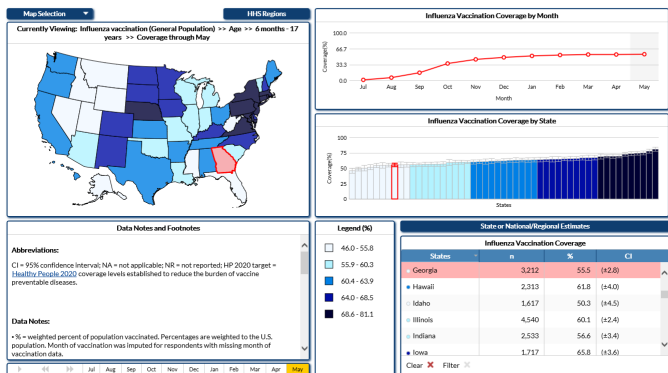
- All the vaccination coverage estimates in the report rely upon parental or self-report and are not validated with medical records.
 - Validity studies have shown that parental report (for children) may overestimate influenza vaccination coverage.
 - Published studies of validity of self-report of adult influenza vaccination have shown mixed results.
- Bias might remain after weighting adjustments.
 - NIS-Flu and BRFSS are telephone surveys excluding households with no telephone service.
- More details of the methods and limitations can be found in the report at: <https://www.cdc.gov/flu/fluview/coverage-1920estimates.htm>

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For the online report as well as interactive webpages please visit:

<https://www.cdc.gov/flu/fluview/index.htm>



FluVaxView

[Home](#) | [Help and User Guide](#) | [Data Sources and Methods](#) | [Limitations](#) | [Download Report Data \(418 KB\)](#) | [Trend Report](#) | [Single Season Report](#)

Influenza vaccination coverage estimates for persons 6 months and older by state, HHS region, and the United States, National Immunization Survey-Flu (NIS-Flu), 2018-19 influenza season

Filter	Data Notes	Influenza Vaccination Coverage for Selected Areas						
State		Groups	State/Region/U.S.	n	%	CI	Progress Toward Healthy People 2020 (red line)	
Influenza vaccination (General Population)								
Age								
2-6 months								
Georgia		Georgia	7,319	43.1	(43.4)	0	100	
6 months - 17 years								
Georgia		Georgia	3,212	55.5	(42.8)	0	100	
5-12 years								
Georgia		Georgia	1,538	57.2	(43.8)	0	100	
13-17 years								
Georgia		Georgia	633	43.7	(45.8)	0	100	
≥18 years								
Georgia		Georgia	4,107	39.3	(44.3)	0	100	
18-44 years								
Georgia		Georgia	2,805	34.9	(44.9)	0	100	
18-44 years at high risk								
Georgia		Georgia	733	45.6	(45.4-42)	0	100	
18-44 years not at high risk								
Georgia		Georgia	2,033	30.7	(45.1)	0	100	
18-49 years								
Georgia		Georgia	1,647	30.5	(45.5)	0	100	
18-49 years at high risk								
Georgia		Georgia	275	36.1	(44.5-51)	0	100	
18-49 years not at high risk								
Georgia		Georgia	1,366	29.4	(45.9)	0	100	
≥65 years								
Georgia		Georgia	1,138	43.4	(45.0)	0	100	
≥65 years								
Georgia		Georgia	1,302	58.4	(47.4)	0	100	
HHS Region or U.S.								
United States								
Race/Ethnicity								
Region 1		White only, non-Hispanic	Georgia	4,133	46.4	(44.5)	0	100
Region 2		Black only, non-Hispanic	Georgia	1,557	38.7	(47.2)	0	100
Region 3		Hispanic	Georgia	967	40.1	(47.4)	0	100
Region 4		Other or multiple races, non-Hispanic	Georgia	590	45.9	(49.8)	0	100
Region 5								
Region 6								

For more information, contact CDC
 1-800-CDC-INFO (232-4636)
 TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

