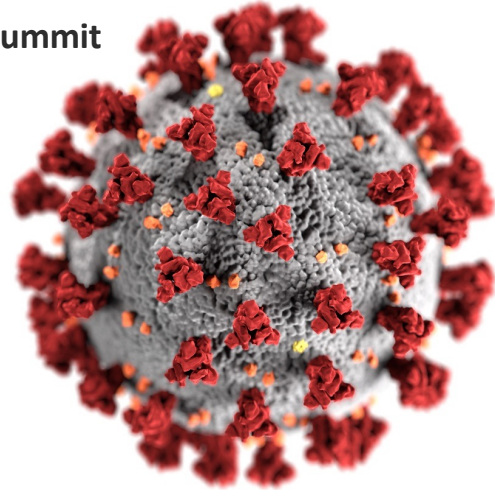


Updates to COVID-19 Epidemiology and Vaccination Coverage

National Adult and Influenza Immunization Summit



Myrna D. Charles, DO, MBA, MPH
September 30, 2021



cdc.gov/coronavirus

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COVID-19 Epidemiology and COVID-19 Vaccines

- COVID-19 cases and deaths
- COVID-19 hospitalizations
- COVID-19 vaccines administered
- COVID-19 vaccine coverage



2

COVID-19 Epidemiology and COVID-19 Vaccines

- COVID-19 cases and deaths
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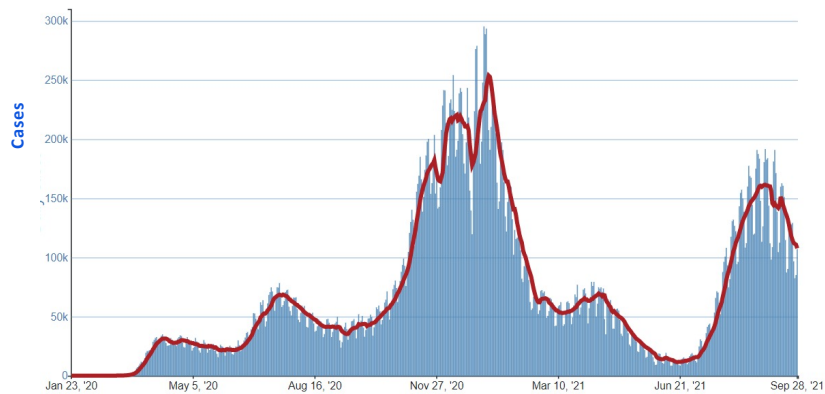


3

Daily Trends in Number of COVID-19 Cases in the U.S.

January 23, 2020 – Sept 28, 2021

Cases Total 43,169,823

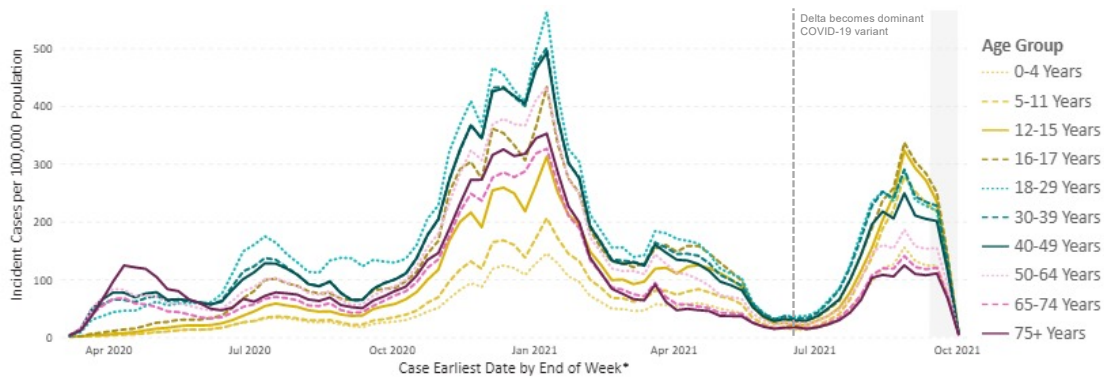


https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases



4

COVID-19 Weekly Cases per 100,000 Persons by Age Group, March 1, 2020 – September 27, 2021

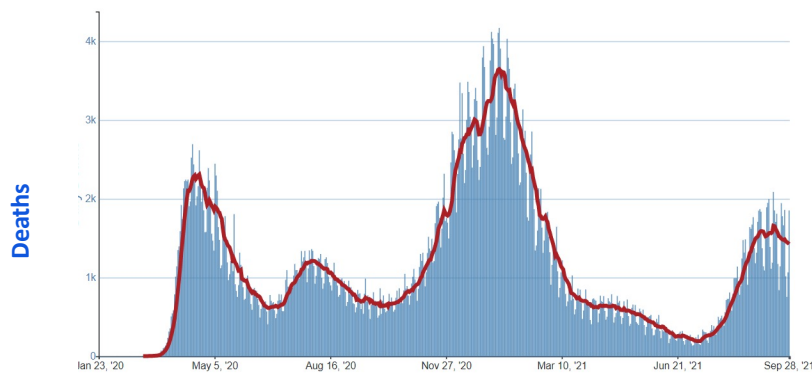


Data Source: CDC COVID-19 Case Line-Level Data, accessed September 28, 2021, <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>. The percentage of cases reporting age by date was 98.69%. U.S. territories are included in case counts, but not in population counts. All data are provisional. COVID-19 case surveillance data may be incomplete for recent days due to processing and reporting delays and are subject to change. Potential two-week delay in case reporting to CDC denoted by gray bar.

5

Daily Trends in Number of COVID-19 Deaths in the U.S.

January 23, 2020 – Sept 28, 2021
Deaths Total 691,517

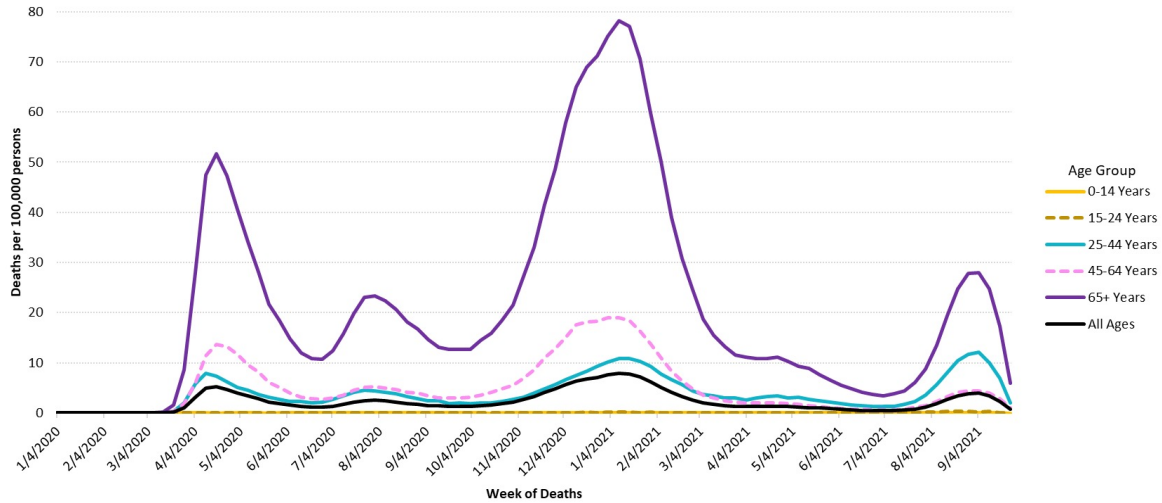


https://covid.cdc.gov/covid-data-tracker/#trends_dailytrendscases



6

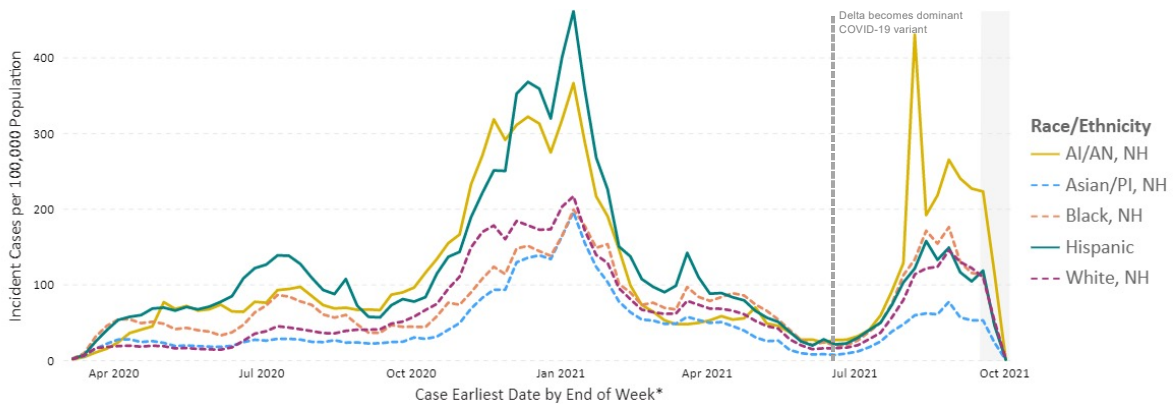
COVID-19 Weekly Deaths per 100,000 by Age Group, December 29, 2019 – September 25, 2021



Data Source: National Center for Health Statistics (NCHS) Provisional Death Counts for COVID-19, accessed September 29, 2021. <https://data.cdc.gov/NCHS/Provisional-COVID-19-Deaths-by-Week-Sex-and-Age-vsak-wrfu>. Number of deaths reported are total number of deaths received and coded as of the date of the analysis, and do not represent all deaths that occurred in that period. Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more.

7

COVID-19 Weekly Cases per 100,000 Population by Race/Ethnicity, March 1, 2020 – September 27, 2021



Data Source: CDC COVID-19 Case Line-Level Data, accessed September 28, 2021. <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>

8

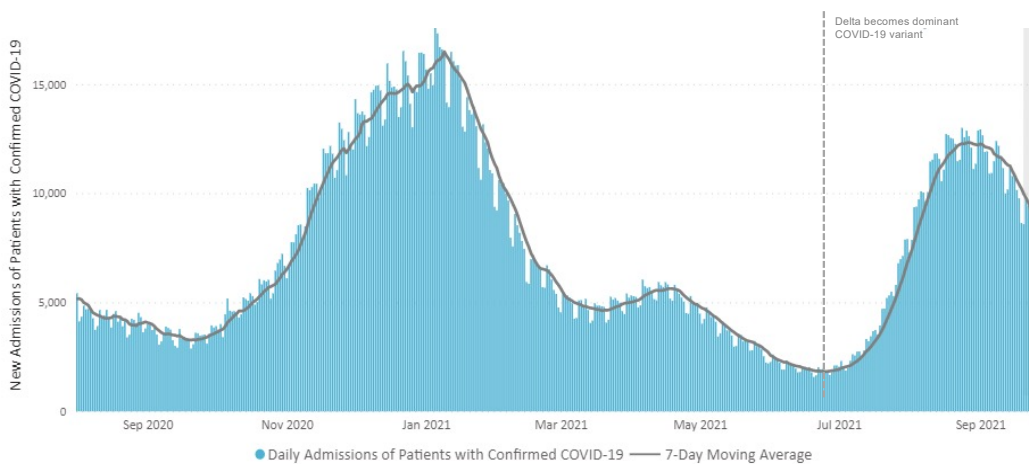
COVID-19 Epidemiology and COVID-19 Vaccines

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9

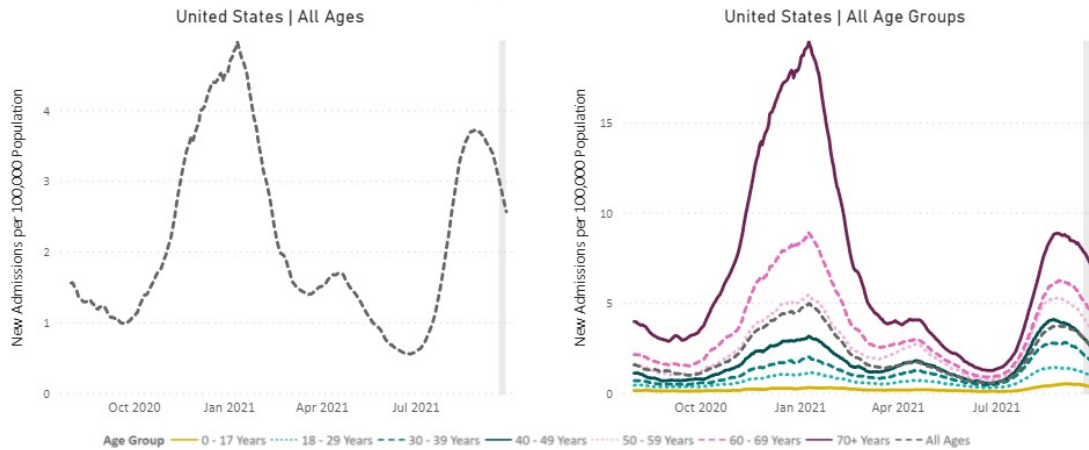
New Admissions of Patients with Confirmed COVID-19, United States – August 01, 2020 – September 26, 2020



Data Source: Unified Hospital Dataset, accessed September 28, 2021. <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>

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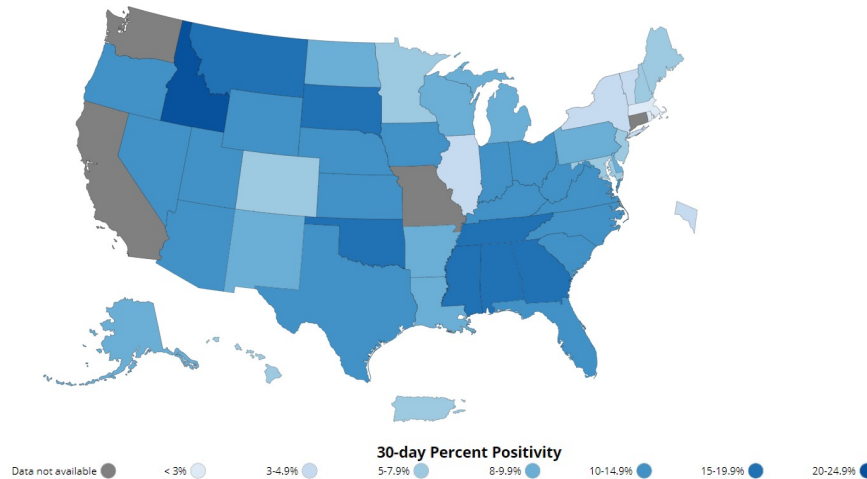
Weekly Trends in COVID-19 Associated Hospitalization Rates in the U.S., August 1, 2020 – September 27, 2021



Data Source: Unified Hospital Dataset, accessed September 28, 2021. <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>

11

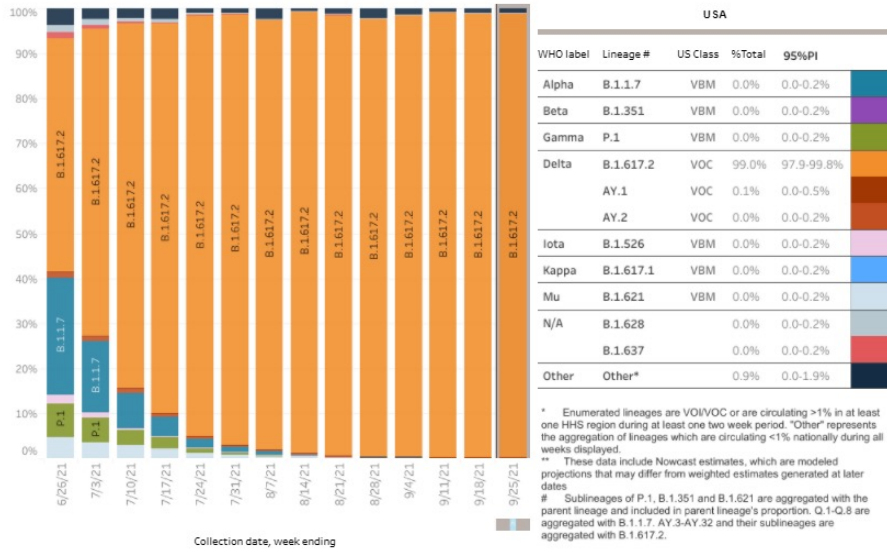
COVID-19 Nucleic Acid Amplification Tests (NAATs) 30-day Percent Positivity by State/Territory



Data Source: https://covid.cdc.gov/covid-data-tracker/#cases_positivity30day

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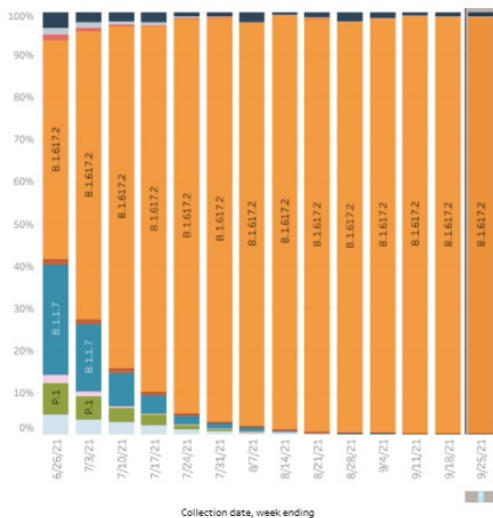
COVID-19 Variant Proportions, June 20, 2021 – September 25, 2021



Data Source: CDC Sequence data (NS3 + CDC-funded contract sequencing), accessed September 28, 2021. <https://covid.cdc.gov/covid-data-tracker/#variant-proportions>

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COVID-19 Variant Proportions, June 20, 2021 – September 25, 2021



- Delta represents **99%** of recently sequenced lineages
- Delta is more than 2x as contagious than previous variants

■ Delta, B.1.617.2
 ■ Alpha, B.1.1.7



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COVID-19 Epidemiology and COVID-19 Vaccines

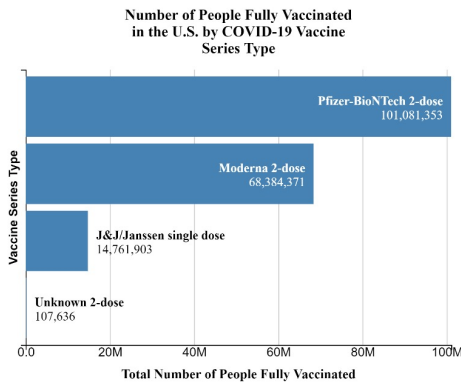
- COVID-19 cases and deaths
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- COVID-19 vaccines administered
- COVID-19 vaccine coverage



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COVID-19 vaccines administered

Total Vaccine Doses Administered:
391,992,662



% of Population Fully Vaccinated



≥12 years of age:
63.1%



≥18 years of age:
65.0%



≥65 years of age:
82.5%



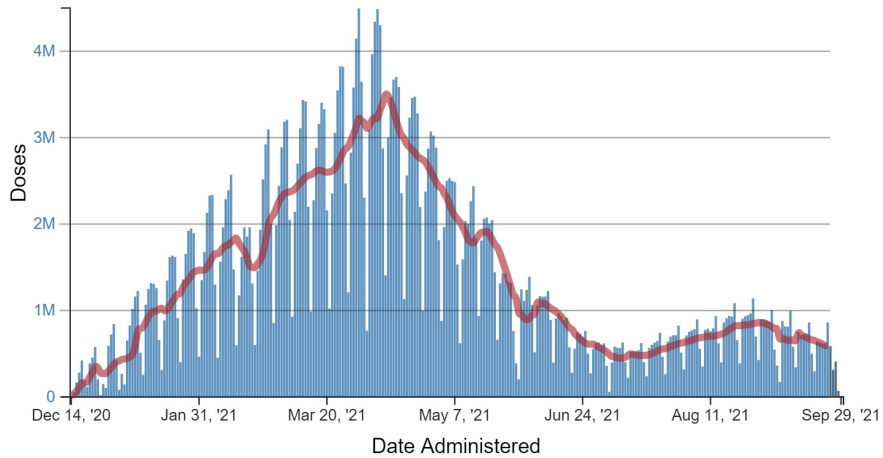
CDC. <https://covid.cdc.gov/covid-data-tracker>

As of Sept 29, 2021

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Daily Trends in Doses of COVID-19 Vaccine Administered

Daily Count of Total Doses Administered and Reported to CDC by Date Administered, United States



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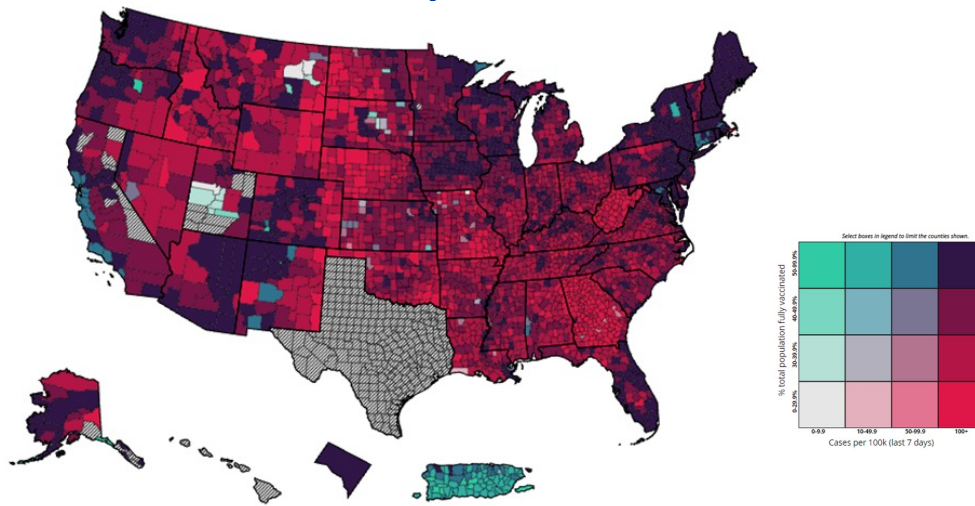
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18

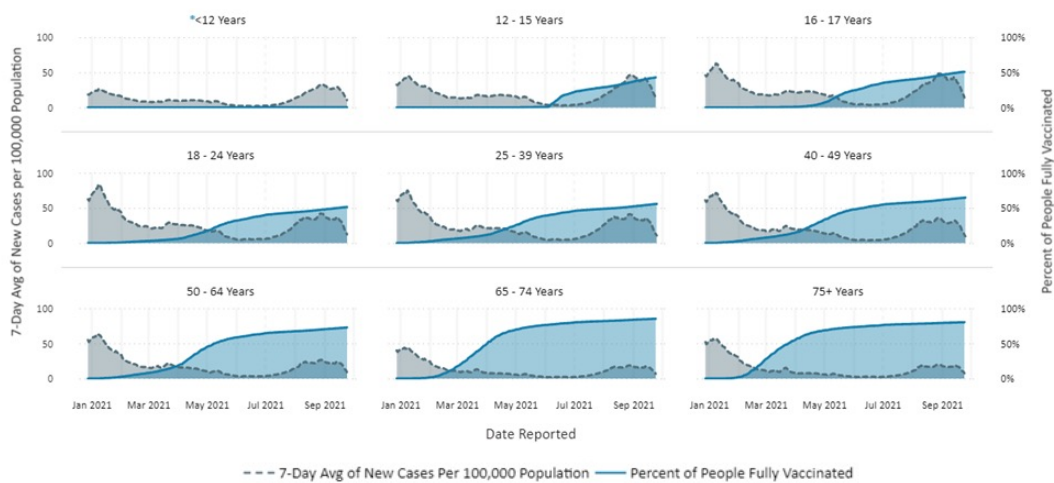
COVID-19 Reported Cases per 100,000 Population (last 7 days) and Percent of Total Population Fully Vaccinated, September 21, 2021 – September 27, 2021



Data Source: Vaccinations and cases metrics generated from CDC-managed data sets, compiled from state and local health departments, accessed September 28, 2021, <https://covid.cdc.gov/covid-data-tracker/#vaccination-case-rate>

19

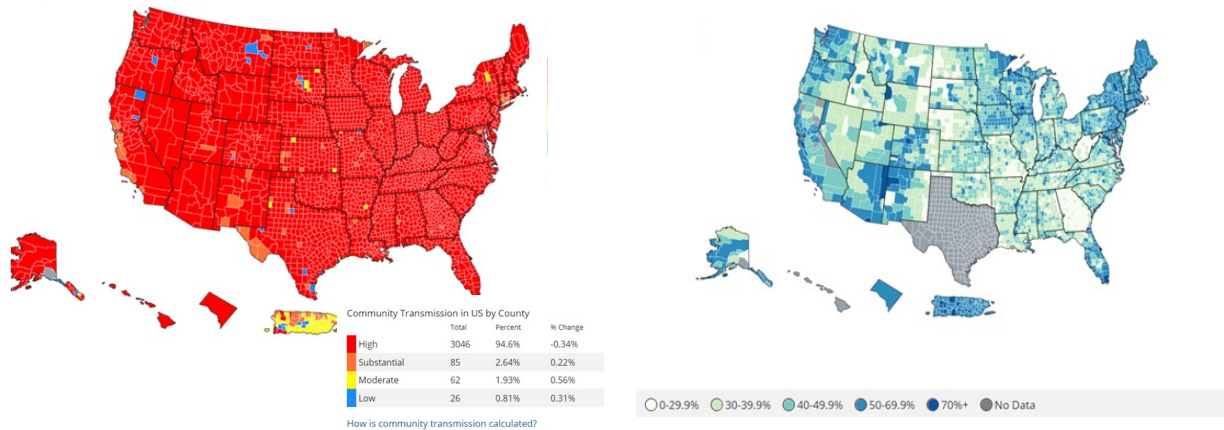
Percent of People Fully Vaccinated and Cases per 100,000 Persons by Age, December 28, 2020 – September 27, 2021



Data Source: Vaccination coverage notifications from state and territorial jurisdictions through the Vaccine Tracking System (VTrcks), accessed September 28, 2021, <https://covid.cdc.gov/covid-data-tracker/#vaccinations-cases-trends>

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Maps of Community Transmission and % of Total Population Vaccinated in the U.S., by County, September 21, 2021 – September 27, 2021



Data Source: Cases metrics generated from CDC-managed data set, compiled from state and local health departments, accessed September 28, 2021. <https://covid.cdc.gov/covid-data-tracker/#county-view>



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Updates to COVID-19 Epidemiology and COVID-19 Vaccines Summary

- Rates of COVID-19-associated hospitalizations have decreased in adults. However, weekly rates of hospitalizations due to COVID-19 have recently increased in children ages 11 years and younger.
- Currently, the Delta variant is the only variant classified as a variant of concern (VOC) in the United States.
- COVID-19 vaccines continue to maintain **high protection** against severe disease, hospitalization, and death
- To maximize protection from the Delta variant and prevent possibly spreading it to others, get vaccinated as soon as you can and wear a mask indoors in public if you are in an area of substantial or high transmission.

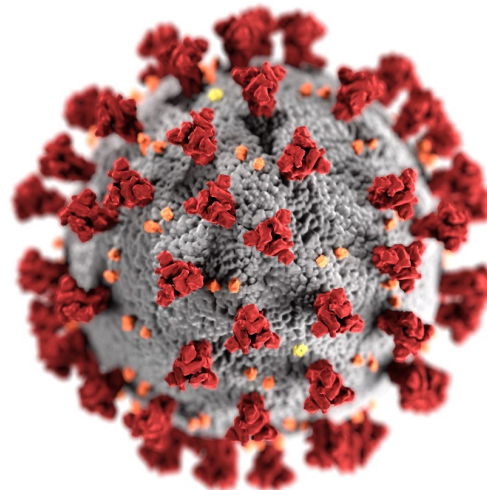


22

Acknowledgements

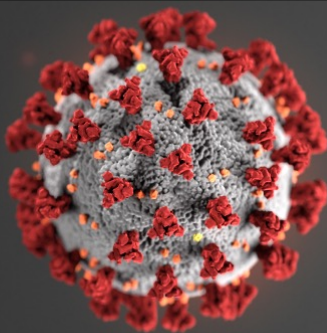
- Sara Oliver
- Linda Mattocks
- Kathleen Dooling

- ACIP Team
- Epi Task Force
- Data, Analytics and Visualization Task Force
- CDC IMS 2019 NCOV Response



cdc.gov/coronavirus

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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.



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