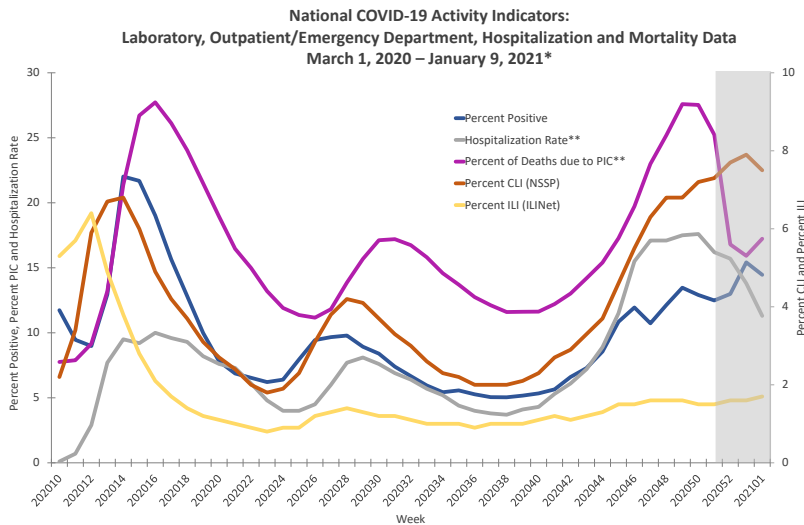


COVIDView

A Weekly Surveillance Summary of U.S. COVID-19 Activity

Key Updates for Week 1, ending January 9, 2021

Nationally, surveillance indicators tracking levels of SARS-CoV-2 circulation, associated illnesses, and hospitalizations decreased or remained stable but elevated during the week ending January 9, 2021. The percentage of deaths due to pneumonia, influenza and COVID-19 (PIC) increased during the most recent week after declining for three weeks. Recent declines in hospitalization rates and PIC mortality should be interpreted with caution as reporting delays increased during the holidays and the downward trends may change as more data are received.



*Data are preliminary and may change as more reports are received.

**The percentage of deaths due to PIC and the hospitalization are expected to increase for the most recent weeks as additional data are received.

Virus: Public Health, Commercial and Clinical Laboratories

Nationally, the overall percentage of respiratory specimens testing positive for SARS-CoV-2, the virus causing COVID-19, decreased from 15.4% during week 53 to 14.5% during week 1. Percent positivity decreased among all age groups and in nine of ten [Health and Human Services \(HHS\) regions](#).

Mild/Moderate Illness: Outpatient and Emergency Department Visits

Nationally, the percentage of visits to outpatient providers or emergency departments (EDs) decreased for COVID-like illness (CLI) or remained stable (change of $\leq 0.1\%$) for influenza-like illness (ILI) during week 1 compared with week 53. Two of ten surveillance regions reported an increase in at least one indicator of mild/moderate illness (CLI/ILI) this week while eight regions reported a stable (change of $\leq 0.1\%$) or decreasing level of mild/moderate illness.

Severe Disease: Hospitalizations and Deaths

In December, the overall weekly hospitalization rate reached its highest point since the beginning of the pandemic and remains elevated. Although reported rates in recent weeks have declined, these rates are likely to increase as additional data are reported. Based on death certificate data, the percentage of deaths attributed to pneumonia, influenza or COVID-19 (PIC) for week 1 was 17.2% and it remains above the epidemic threshold. Longer delays in reporting of hospitalization and mortality data may occur due to the holidays.

All data are preliminary and may change as more reports are received. A description of the surveillance systems summarized in COVIDView, including methodology and detailed descriptions of each data component, is available on the [surveillance methods](#) page.

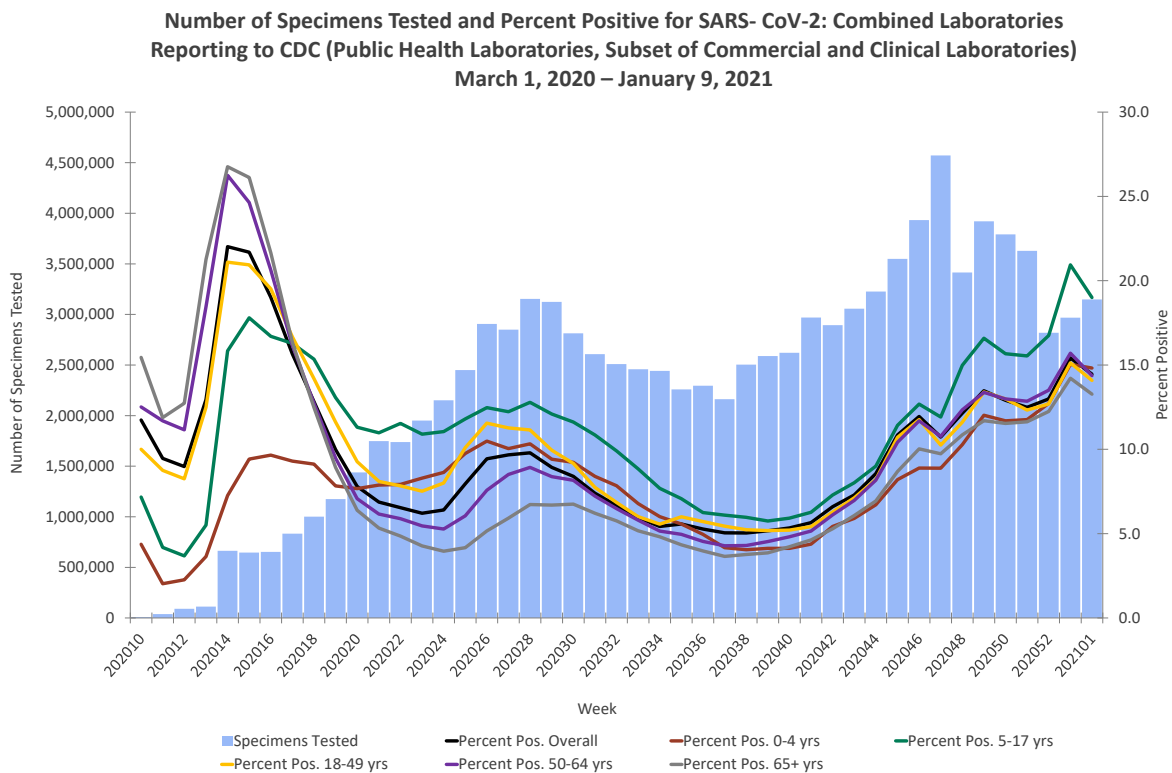
Key Points

- Holidays during weeks 52 and 53 and increases in the number of COVID-19 illnesses have affected data reporting and health care seeking behavior in multiple ways; therefore, data from recent weeks should be interpreted with caution because they may change more than usual as additional data for those weeks are received.
- Nationally, the overall percentage of respiratory specimens testing positive for SARS-CoV-2 decreased during week 1 (14.5%) compared with week 53 (15.4%). Percent positivity decreased in nine of ten HHS surveillance regions.
 - For Region 1 (New England), percent positivity has increased for the most recent two weeks.
 - Eight regions (Region 2 [New Jersey/New York/Puerto Rico], Region 3 [Mid-Atlantic], Region 4 [Southeast], Region 6 [South Central], Region 7 [Central], Region 8 [Midwest], Region 9 [South/West Coast], and Region 10 [Pacific Northwest]) had shown increasing trends in percent positivity for two or more weeks until seeing a decline during week 1 compared with week 53.
 - Region 5 (Midwest) had a decreasing trend in percent positivity from mid-November through late December and has reported fluctuations in percent positivity during the past two weeks.
- Surveillance indicators of mild to moderate illness at the national level declined for CLI and remained stable (change of $\leq 0.1\%$) for ILI during week 1 compared to week 53 but had shown increasing trends from late September 2020 through early January 2021.
- The overall cumulative COVID-19-associated hospitalization rate through the week ending January 9, 2021 was 364.3 hospitalizations per 100,000 population.
 - The overall weekly hospitalization rate reached its highest point at 17.6 per 100,000 during the week ending December 12, 2020 (Week 50), and it remains elevated. Although reported rates in recent weeks have declined, these rates are likely to increase as additional data are reported. Longer delays in data reporting may occur due to the holidays.
 - When examining age-adjusted hospitalization rates by race and ethnicity, compared with non-Hispanic White persons, hospitalization rates were 3.3 times higher among Hispanic or Latino persons and Non-Hispanic American Indian or Alaska Native persons and 3.0 times higher among non-Hispanic Black persons.
- The percentage of deaths due to PIC increased from the beginning of October through early December (27.6%), when it exceeded the percentage of deaths due to PIC observed during the summer peak (17.2%) and approached the peak seen in April (27.7%).
 - Nationally, the percentage of deaths due to PIC increased from week 53 (15.9%) to week 1 (17.2%), after a declining trend in the percentage of deaths due to PIC for the previous four weeks. The percentage of deaths due to PIC for these weeks are likely to increase as additional death certificates are processed.
 - Due to the large number of deaths reported in recent weeks and the holidays, the change may be larger than usual.

U.S. Virologic Surveillance

Based on data reported to CDC by public health laboratories and a subset of clinical and commercial laboratories in the United States, 105,021,534 specimens were tested for SARS-CoV-2 using a molecular assay since March 1, 2020. The percentage of specimens testing positive for SARS-CoV-2 each week, based on week of specimen collection, are summarized below.

Nationally, 455,437 (14.5%) of 3,148,737 specimens tested for SARS-CoV-2 for diagnostic purposes were positive during week 1. This is a decrease compared with week 53, during which 15.4% of specimens tested were positive. The percentage of specimens testing positive decreased among all age groups.



During week 1 compared with week 53, the percentage of specimens testing positive for SARS-CoV-2 increased in Region 1 [New England], but decreased in the other nine HHS regions.

Additional virologic surveillance information: [Surveillance Methods](#)

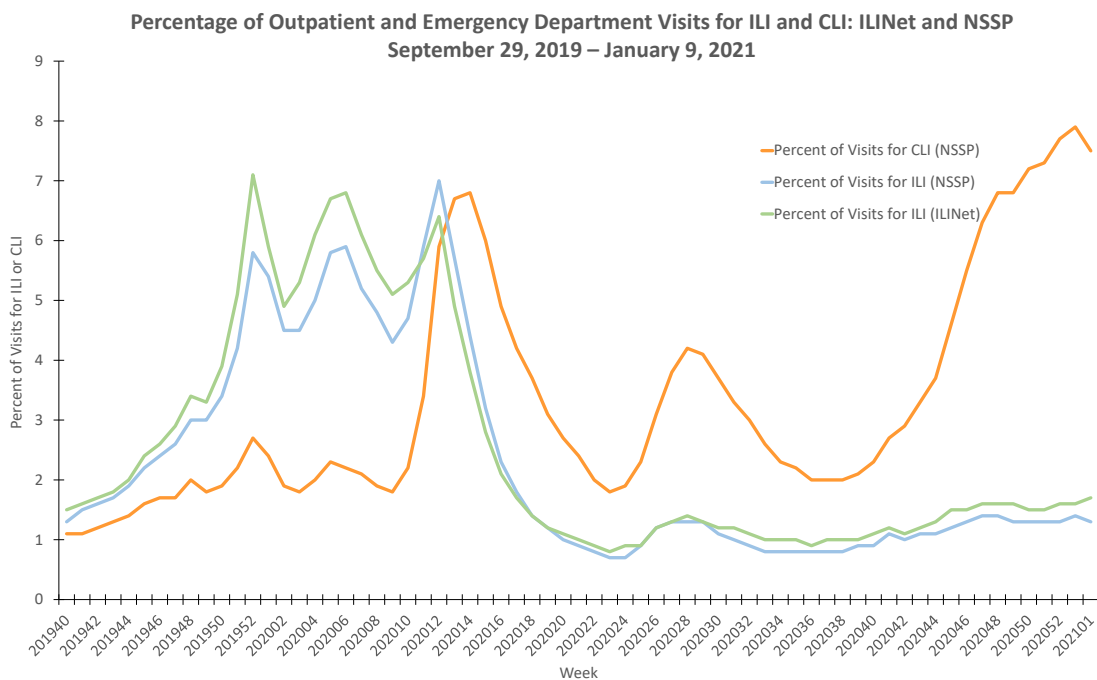
*Note: Different laboratory types came on board with testing during different weeks. This graph includes public health laboratory data beginning in week 10, clinical laboratory data beginning in week 11, and commercial laboratory data beginning in week 14.



Outpatient/Emergency Department Illness

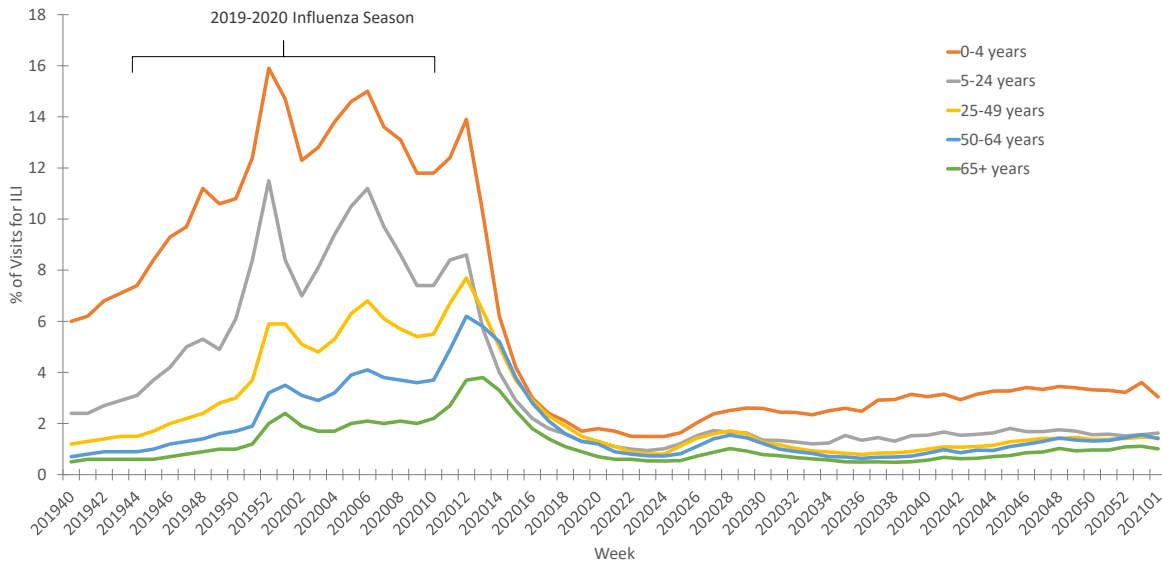
Two syndromic surveillance systems, the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) and the National Syndromic Surveillance Project (NSSP), are being used to monitor trends in outpatient and emergency department (ED) visits that may be associated with COVID-19 illness. Each system monitors activity in a slightly different set of providers/facilities and uses a slightly different set of symptoms that may be associated with SARS-CoV-2 virus infection. ILINet provides information about visits to outpatient providers or emergency departments for influenza-like illness (ILI: fever plus cough and/or sore throat) and NSSP provides information about visits to EDs for ILI and COVID-like illness (CLI: fever plus cough and/or shortness of breath or difficulty breathing). Some EDs contribute ILI data to both ILINet and NSSP. Both systems are currently being affected by changes in health care seeking behavior, including increased use of telemedicine and increased social distancing. These changes affect the numbers of people seeking care in the outpatient and ED settings. Syndromic data, including CLI and ILI, should be interpreted with caution and should be evaluated in combination with other sources of surveillance data, especially laboratory testing results, to obtain a complete and accurate picture of respiratory illness.

Nationally, the overall percentages of visits to outpatient providers or EDs remained stable (change of $\leq 0.1\%$) for ILI and decreased for CLI during week 1 compared with week 53. During week 1, the percentages of ED visits captured in NSSP for CLI and ILI were 7.5% and 1.3%, respectively. In ILINet, 1.7% of visits reported during week 1 were for ILI, which has remained stable (change of $\leq 0.1\%$) compared with week 53 and below the [national baseline](#) (2.4% for October 2019 through September 2020; 2.6% since October 2020) for the 39th consecutive week. This level of ILI is lower than is typical for ILINet during this time of year.



The percentages of visits for ILI reported in ILINet in week 1 decreased for two age groups (0–4 years and 50–64 years) compared with week 53. In the remaining age groups (5–24 years, 25–49 years, and 65 years and older), these percentages remained stable (change of $\leq 0.1\%$).

Percentage of Visits for Influenza-Like Illness (ILI)
Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet),
Weekly National Summary, September 29, 2019 – January 9, 2021



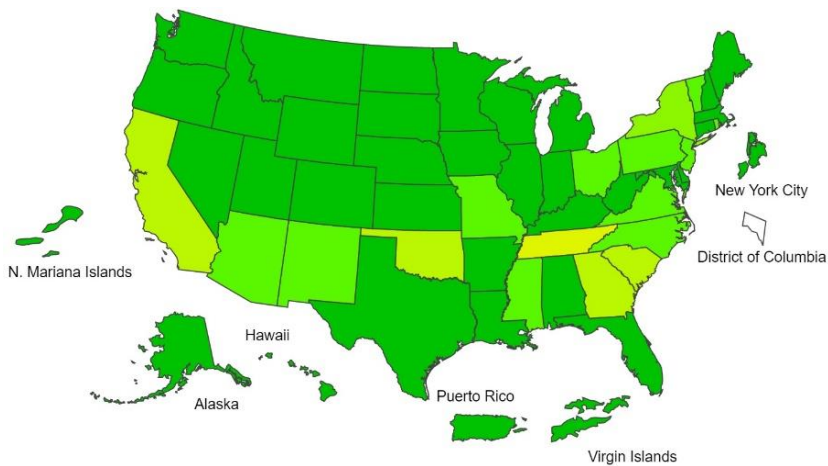
On a [regional level](#), two regions (Region 5 [Midwest] and 9 [South/West Coast]) reported an increase in at least one indicator of mild to moderate illness (CLI and/or ILI) during week 1 compared with week 53. The remaining eight regions reported a stable (change of $\leq 0.1\%$) or decreasing level of mild to moderate illness during week 1 compared with week 53; however, three of these regions (Regions 2 (New Jersey/New York/Puerto Rico), 4 (Southeast) and 6 (South Central)) have reported an increasing trend in at least one of these indicators during recent weeks. The percentage of visits for ILI to ILINet providers during week 1 was above the [the region-specific baseline](#) in one region (Region 9 [South/West Coast]).

ILI Activity Levels

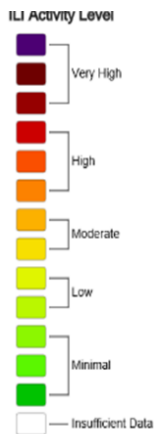
Data collected in ILINet are used to produce a measure of [ILI activity](#) for all 50 states, Puerto Rico, the U.S. Virgin Islands, the District of Columbia, New York City and for each core-based statistical area (CBSA) where at least one provider is located. The mean reported percentage of visits due to ILI for the current week is compared with the mean reported during non-influenza weeks, and the activity levels correspond to the number of standard deviations below, at, or above the mean.

The number of jurisdictions at each activity level during week 53 and the previous week are summarized in the table below.

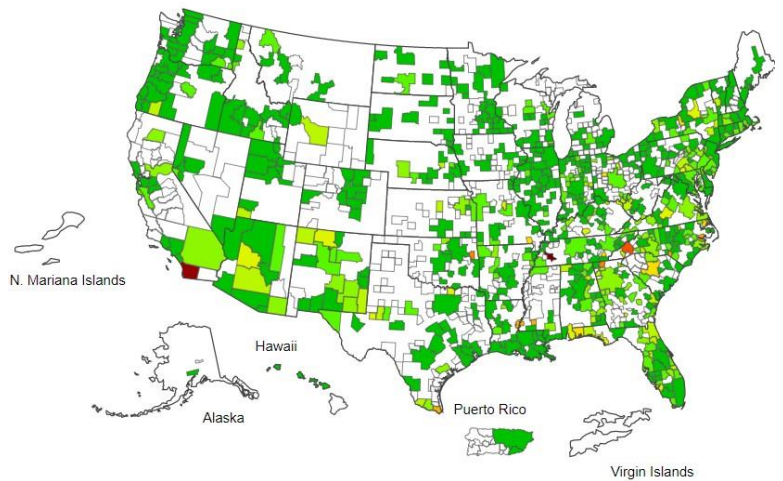
Activity Level	Number of Jurisdictions		Number of CBSAs	
	Week 1 (Week ending Jan. 9, 2021)	Week 53 (Week ending Jan. 2, 2021)	Week 1 (Week ending Jan. 9, 2021)	Week 53 (Week ending Jan. 2, 2021)
Very High	0	0	2	0
High	0	0	3	4
Moderate	0	0	12	15
Low	5	4	47	50
Minimal	49	50	544	547
Insufficient Data	1	1	321	313



ILI Activity Level Map by Jurisdiction
Week 1, ending January 9, 2021



ILI Activity Level Map by CBSA
Week 1, ending January 9, 2021



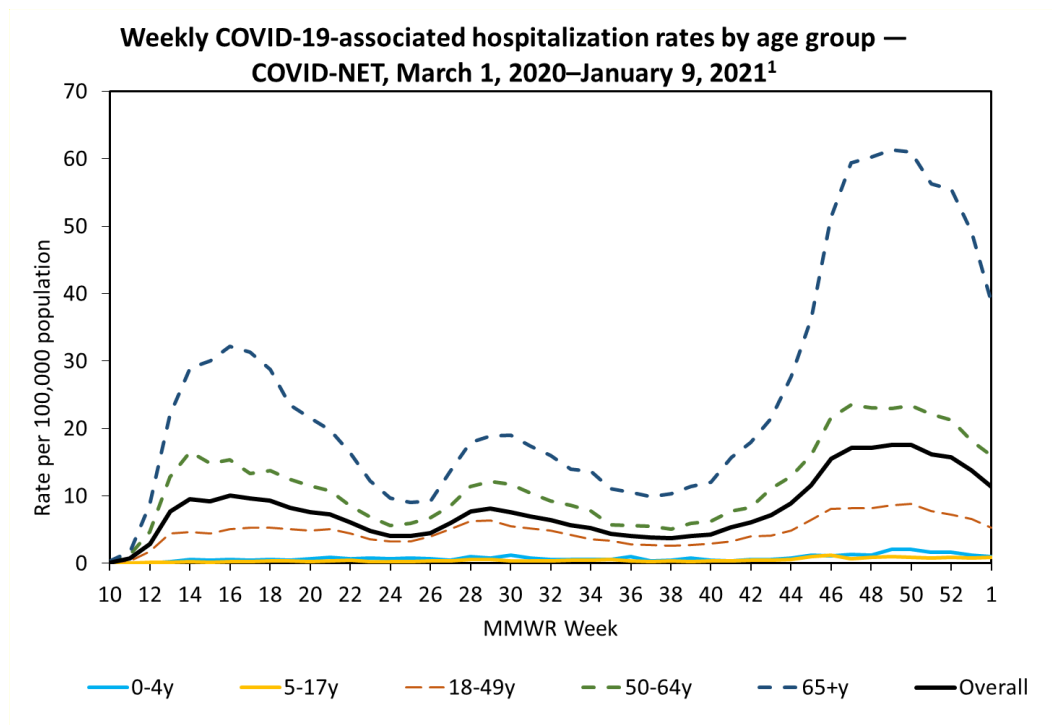
*Note: Data collected in ILINet may disproportionately represent certain populations within a state and may not accurately depict the full picture of respiratory disease activity for the whole state. Differences in the data presented here by CDC and independently by some state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

Additional information about medically attended outpatient and emergency department visits for ILI and CLI: [Surveillance Methods](#)

Hospitalizations

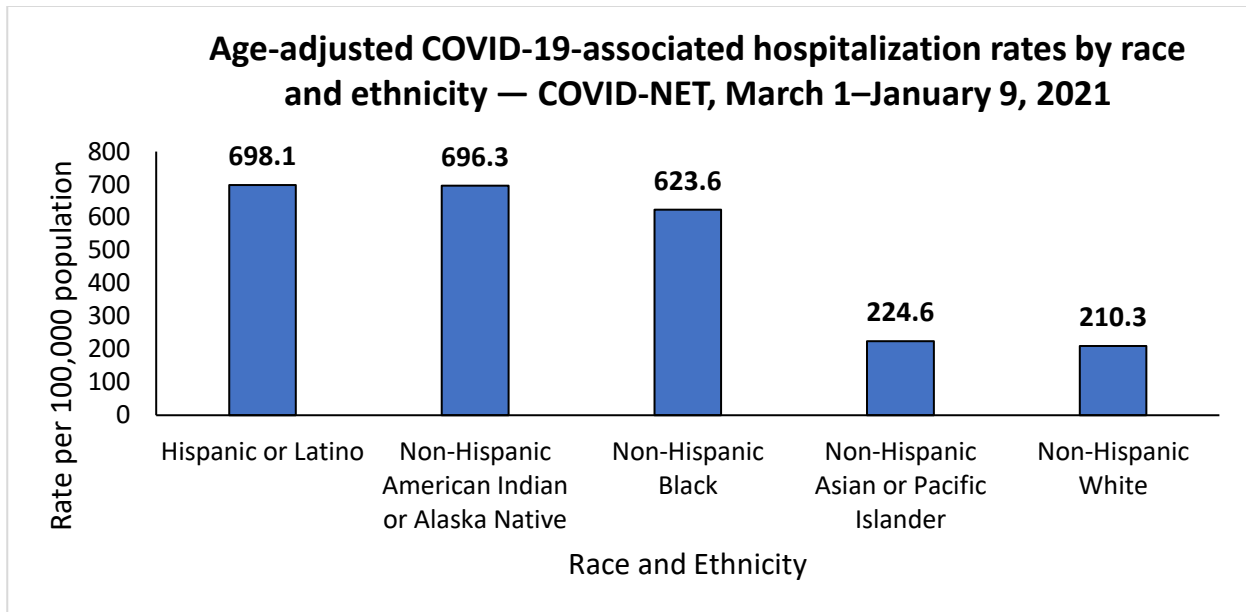
The COVID-19-Associated Hospitalization Surveillance Network (COVID-NET) conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations in select counties participating in the Emerging Infections Program (EIP) and the Influenza Hospitalization Surveillance Project (IHSP).

A total of 118,760 laboratory-confirmed COVID-19-associated hospitalizations were reported by sites between March 1, 2020, and January 9, 2021. The overall cumulative hospitalization rate was 364.3 per 100,000 population. The overall weekly hospitalization rate reached its highest point at 17.6 per 100,000 during the week ending December 12, 2020 (Week 50) and remains elevated. Although reported rates in recent weeks have declined, these rates are likely to increase as additional data are reported. Recent data reporting delays might be increased due to the holidays.



¹[Additional hospitalization rate data](#) by age group are available.

Among the 118,760 laboratory-confirmed COVID-19-associated hospitalizations, 115,196 (97.0%) had information on race and ethnicity, while collection of race and ethnicity was still pending for 3,564 (3.0%) cases. When examining age-adjusted hospitalization rates by race and ethnicity, compared with non-Hispanic White persons, hospitalization rates were 3.3 times higher among Hispanic or Latino persons and Non-Hispanic American Indian or Alaska Native persons, and 3.0 times higher among non-Hispanic Black persons.



When examining age-stratified crude hospitalization rates by race and ethnicity, compared with non-Hispanic White persons in the same age group, crude hospitalization rates were 4.5 times higher among Hispanic or Latino persons aged 0–17 years, 5.9 times higher among non-Hispanic American Indian or Alaska Native persons aged 18–49 years, 4.1 times higher among non-Hispanic American Indian or Alaska Native persons and Hispanic or Latino persons aged 50–64 years, and 2.3 times higher among non-Hispanic Black persons aged ≥ 65 years.

**Hospitalization rates per 100,000 population by age and race and ethnicity –
COVID-NET, March 1, 2020–January 9, 2021**

Age Category	Non-Hispanic American Indian or Alaska Native		Non-Hispanic Black		Hispanic or Latino		Non-Hispanic Asian or Pacific Islander		Non-Hispanic White	
	Rate ¹	Rate Ratio ^{2,3}	Rate ¹	Rate Ratio ^{2,3}	Rate ¹	Rate Ratio ^{2,3}	Rate ¹	Rate Ratio ^{2,3}	Rate ¹	Rate Ratio ^{2,3}
0–17 years	31.2	3.1	34.8	3.4	45.5	4.5	15.4	1.5	10.2	1.0
18–49 years	501.4	5.9	332.8	3.9	468.4	5.5	111.6	1.3	84.9	1.0
50–64 years	1129.9	4.1	955.4	3.5	1116.8	4.1	337.0	1.2	272.8	1.0
65+ years	1665.5	2.0	1894.8	2.3	1806.3	2.2	731.2	0.9	812.6	1.0
Overall rate ⁴ (age-adjusted)	696.3	3.3	623.6	3.0	698.1	3.3	224.6	1.1	210.3	1.0

¹ COVID-19-associated hospitalization rates by race and ethnicity are calculated using COVID-NET hospitalizations with known race and ethnicity for the numerator and [NCHS bridged-race population estimates](#) for the denominator.

² For each age category, rate ratios are the ratios between crude hospitalization rates within each racial and ethnic group and the crude hospitalization rate among non-Hispanic White persons in the same age category.

³ The highest rate ratio in each age category is presented in **bold**.

⁴ Overall rates are adjusted to account for differences in age distributions within race and ethnicity strata in the COVID-NET catchment area; the age strata used for the adjustment include 0–17, 18–49, 50–64, 65–74, 75–84 and 85+ years.

Non-Hispanic White persons and non-Hispanic Black persons represented the highest proportions of hospitalizations reported to COVID-NET, followed by Hispanic or Latino, non-Hispanic Asian or Pacific Islander, and non-Hispanic American Indian or Alaska Native persons. However, some racial and ethnic groups are disproportionately represented among hospitalizations compared with the overall population of the catchment area. Prevalence ratios were highest among non-Hispanic American Indian or Alaska Native persons, followed by non-Hispanic Black persons and Hispanic or Latino persons.

Comparison of proportions of COVID-19-associated hospitalizations, by race and ethnicity, COVID-NET,

March 1–January 9, 2021

	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Black	Hispanic or Latino	Non-Hispanic Asian or Pacific Islander	Non-Hispanic White
Proportion of COVID-NET hospitalizations ¹	1.2%	27.0%	20.1%	5.1%	40.6%
Proportion of population in COVID-NET catchment area	0.7%	17.9%	14.1%	8.9%	58.5%
Prevalence ratios ²	1.7	1.5	1.4	0.6	0.7

¹ Persons of multiple races (0.3%) or unknown race and ethnicity (5.7%) are not represented in the table but are included as part of the denominator.

² Prevalence ratio is calculated as the ratio of the proportion of COVID-NET hospitalizations over the proportion of population in COVID-NET catchment area.

For underlying medical conditions, data were restricted to cases reported during March 1–September 30, 2020, due to delays in reporting. During this time frame, [sampling](#) was conducted among hospitalized adults; therefore, weighted percentages are reported. No sampling was conducted among hospitalized children. Among 16,658 sampled adults hospitalized during March 1–October 31 with information on underlying medical conditions, 90.0% had at least one reported underlying medical condition. The most reported underlying medical conditions were hypertension (56.4%), obesity (48.6%), metabolic disease (41.6%), and cardiovascular disease (32.6%). Among 971 children hospitalized during March 1–October 31 with information on underlying conditions, 52.0% had at least one reported underlying medical condition. The most reported underlying medical conditions were obesity (37.7%), neurologic disease (13.4%), and asthma (11.4%).

[Additional data](#) on demographics, signs and symptoms at admission, underlying medical conditions, interventions, outcomes, and discharge diagnoses, stratified by age, sex, and race and ethnicity, are available.

Additional hospitalization surveillance information:

[Surveillance Methods](#) | [Additional rate data](#) | [Additional demographic and clinical data](#)

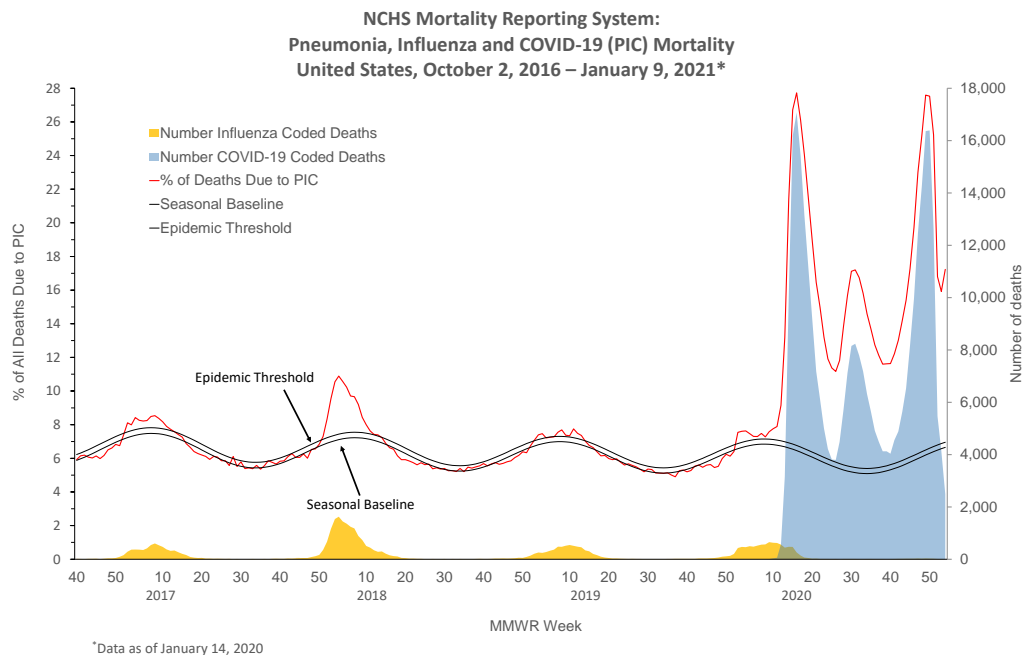
Mortality Surveillance

The National Center for Health Statistics (NCHS) collects death certificate data from vital statistics offices for all deaths occurring in the United States. Based on death certificate data available on January 14, 2021, the percentage of deaths attributed to pneumonia, influenza, or COVID-19 (PIC) increased during week 1 (17.2%) as compared with the percentage during week 53 (15.9%), remains above the epidemic threshold of 7.0%



and is expected to increase as more death certificates are processed. Among the 3,337 PIC deaths reported for week 1, 2,486 had COVID-19 listed as an underlying or contributing cause of death on the death certificate and two listed influenza, indicating that the recent increase in PIC mortality is due primarily to COVID-19 and not influenza.

The weekly percentage of deaths due to PIC has been increasing since early October to a level that is higher than the July peak and is approaching the April peak. Data for the past four weeks show a declining trend in the percentage of deaths due to PIC compared to the December peak, but that is likely to change as additional death certificates are processed. Weekly mortality surveillance data include a combination of machine coded and manually coded causes of death collected from death certificates. The percentage of deaths due to PIC is higher among manually coded records than more rapidly available machine coded records. Because of additional time needed for manual coding, the initially reported PIC percentages may be lower than percentages calculated from final data. Additionally, due to the large number of deaths reported in recent weeks and the holidays, the delay in availability of manually coded records may be longer than usual and the change in data during recent weeks may be larger than usual.



*Data during recent weeks 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. It is possible that a death certificate includes both influenza and COVID as a cause of death; therefore, the number of influenza and COVID coded deaths may not be mutually exclusive.

Additional NCHS mortality surveillance information: [Surveillance Methods](#) | [Provisional Death Counts for COVID-19](#)

Report prepared: January 14, 2021

Detailed data tables are available on the [COVIDView page](#).

