

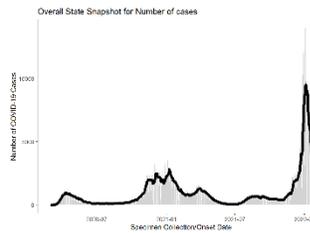
## COVID-19 Update January 27, 2022

As of **January 26, 2022**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **693,386**, including **622,227** laboratory-confirmed and **71,159** probable cases. **One thousand two hundred seventy** patients are currently hospitalized with laboratory-confirmed COVID-19; of these, **687** (54.1%) are not fully vaccinated. There have been **9,908** COVID-19-associated deaths.

Overall Summary	Total*	Change Since Yesterday
COVID-19 Cases (confirmed and probable)	693,386	+3,036
COVID-19 Tests Reported (molecular and antigen)	14,452,598	+31,201
Daily Test Positivity*		9.73%
Patients Currently Hospitalized with COVID-19	1,270	-76
	Total	Change since 01/20/2022
COVID-19-Associated Deaths	9,908	+225

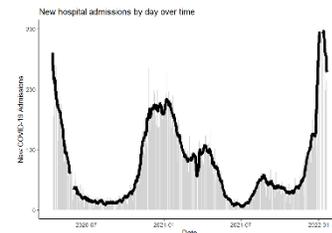
\* Includes confirmed and probable cases

### Cases



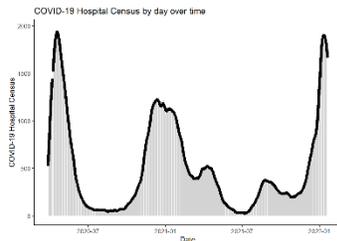
**Total Cases: 693,386**

### Hospitalizations



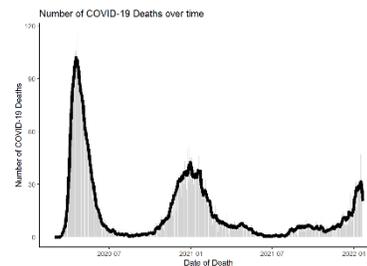
**Total Hospitalizations: 52,778**

### Hospital Census



**Hospital Census: 1/26/2021: 1,270**

### Deaths



**Total Deaths: 9,908**

**COVID-19 Cases and Associated Deaths by County of Residence As of 01/26/22.**

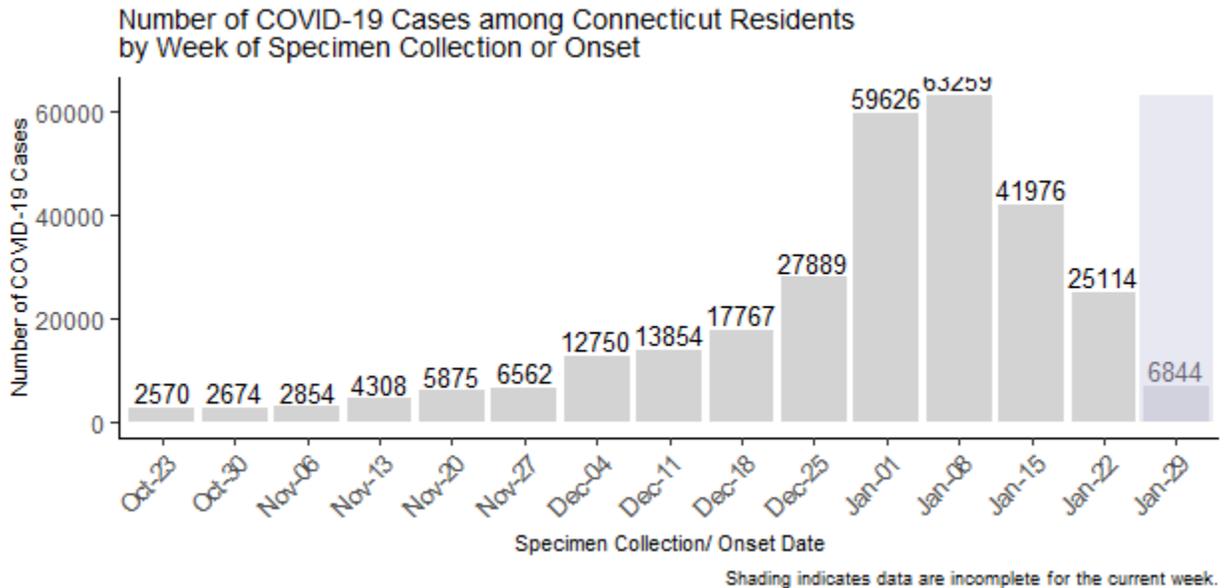
County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	170,615	21,193	2,028	491
Hartford County	153,102	14,969	2,346	514
Litchfield County	25,569	4,045	348	63
Middlesex County	23,317	2,315	327	120
New Haven County	160,887	20,949	2,184	387
New London County	46,472	4,161	456	126
Tolland County	17,163	1,820	179	65
Windham County	22,785	1,366	214	58
Pending address validation	2,317	341	2	0
<b>Total</b>	<b>622227</b>	<b>71159</b>	<b>8084</b>	<b>1824</b>

[National COVID-19 statistics](#) and information about [preventing spread of COVID-19](#) are available from the Centers for Disease Control and Prevention.

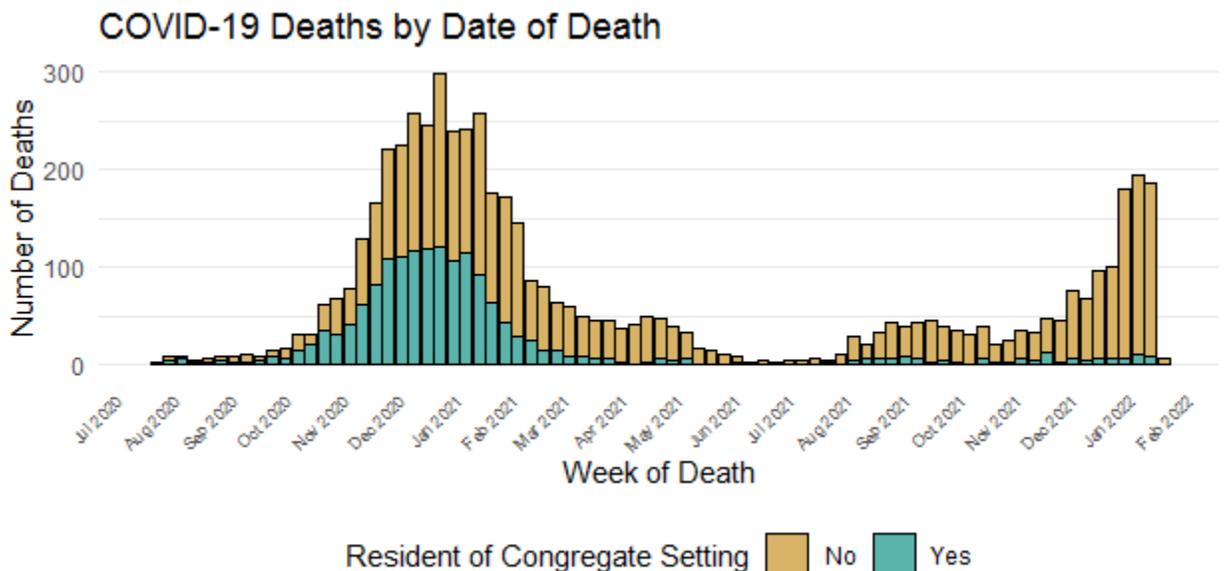
**Day-to-day changes reflect newly reported cases, deaths, and tests that occurred over the last several days to week.** All data in this report are preliminary; data for previous dates will be updated as new reports are received and data errors are corrected. Hospitalization data were collected by the Connecticut Hospital Association. Deaths reported to either OCME or DPH are included in the daily COVID-19 update.

## COVID-19 Cases and Deaths Over Time

The chart below shows the number of new COVID-19 cases reported to CT DPH by week of specimen collection or onset of illness. Case data includes probable cases based on positive antigen test results. During the past two weeks (January 09-22), there were 67,090 new COVID-19 cases, including cases among people residing in the community and congregate settings, such as nursing homes, managed residential communities, and correctional facilities.



The graph below shows the number of COVID-19 associated deaths since August 1, 2020 by week of death and whether the person was residing in a congregate setting, such as a nursing home, managed residential community, or correctional facility.

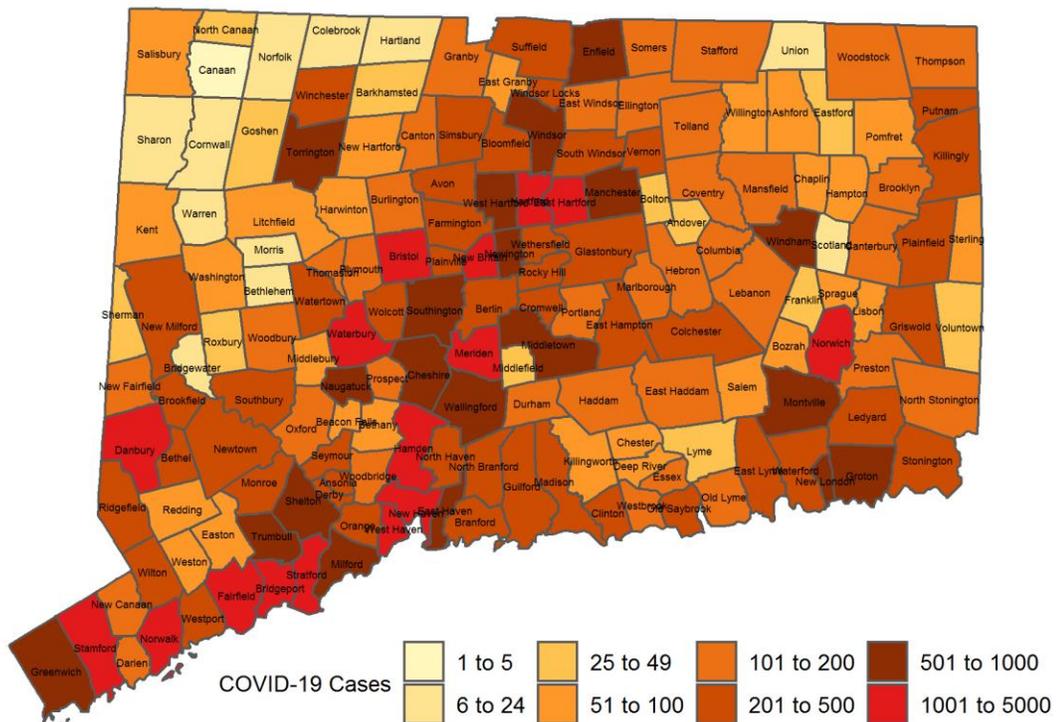


## Community Transmission of COVID-19

Among 67,090 new COVID-19 cases with specimen collection or onset date during January 09-22, there were 66,730 cases among people living in community settings, as shown in the map below. This corresponds to an average of 133.69 new COVID-19 cases per day per 100,000 population. Cases among people residing in nursing homes, assisted living facilities, and correctional facilities are excluded. Darker colors indicate towns with more cases.

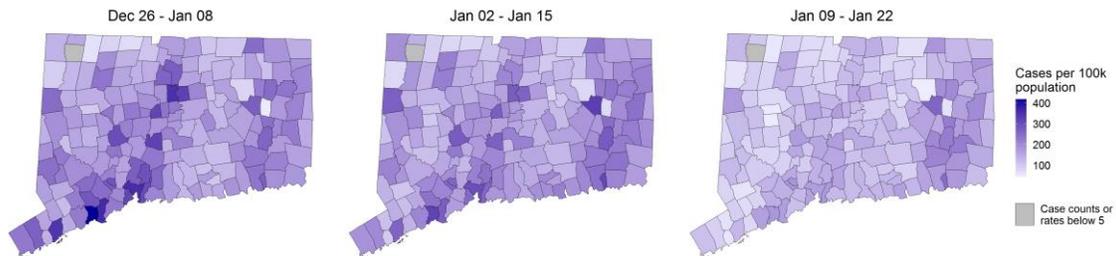
During this two-week period, there were more than 100 new COVID-19 cases in 119 towns.

Number of COVID-19 Cases among People Living in Community Settings by Town with Specimen Collection or Onset Date During January 09-22



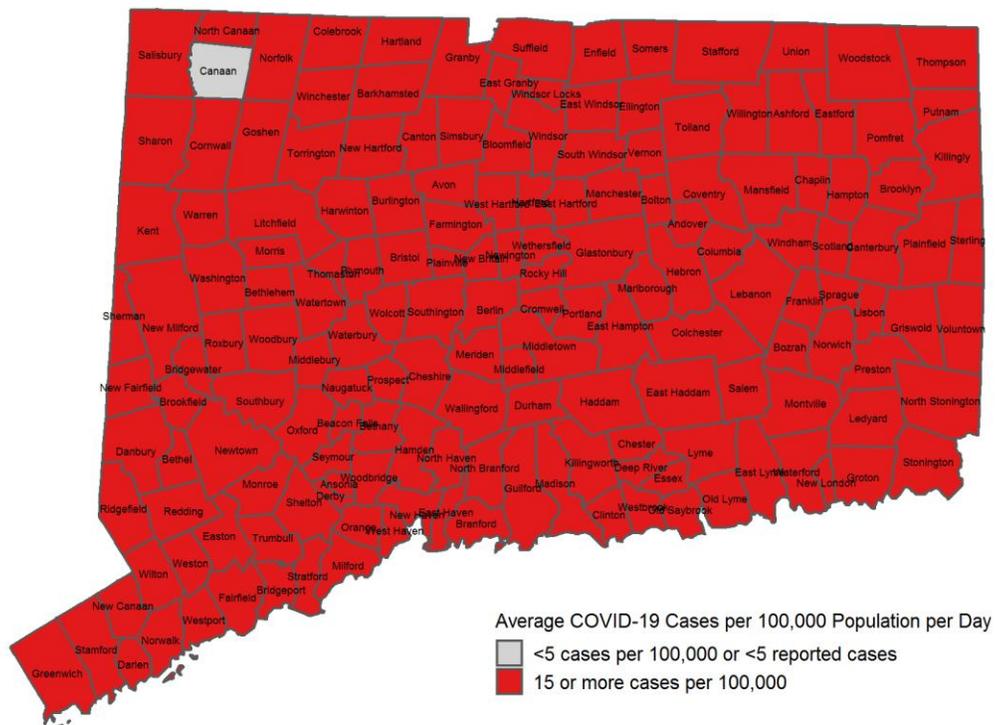
Map does not include 306 cases pending address validation

Because towns with larger populations are likely to have more cases, it is also important to look at the number of new cases per 100,000 population. The maps below show the average number of new cases per 100,000 population per day, with darker colors indicating higher rates. Cases among people residing in nursing homes, assisted living facilities, and correctional facilities are excluded.



Among towns with at least 5 new cases during January 09-22, 168 towns had an average rate of 15 or more cases per 100,000 population per day, shown in red in the map below.

Average Daily Rate of COVID-19 Cases among People Living in Community Settings per 100,000 Population by Town with Specimen Collection or Onset Date During January 09-22



Map does not include 306 cases pending address validation

## Epidemiology of COVID-19 by Vaccine Status

### Methodology

To determine cases of COVID-19 among fully vaccinated persons (e.g., vaccine breakthrough cases), DPH matches COVID-19 case data with the vaccine registry to determine which cases meet the definition of being fully vaccinated and are also vaccine breakthrough cases. A case of COVID-19 in a fully vaccinated person (e.g., vaccine breakthrough case) is defined as a person who has a positive PCR/NAAT or antigen test in a respiratory specimen collected  $\geq 14$  days after completing the final dose of an FDA-authorized or approved COVID-19 vaccine series and who did not have a previously positive COVID-19 test  $< 90$  days prior to the positive test currently under investigation. All data presented below are preliminary and subject to change.

### Data

The table below shows new COVID-19 cases for the last two complete weeks (Sun-Sat) January 09, 2022 - January 22, 2022 by vaccination status. The percentage of cases among fully vaccinated individuals is influenced by the high proportion of the population that is eligible for and has completed a vaccine series, and should be considered in light of the overall proportion of vaccinated individuals who have contracted the virus.

Status	Case Count	Percent
New Cases	62,820	
Not Fully Vaccinated	29,925	47.6
Fully Vaccinated	32,895	52.4

### Data

As of **January 26, 2022**, 150,141 cases of COVID-19 among fully vaccinated persons in Connecticut have been identified. Of the 2,569,296 persons who are fully vaccinated, 5.84 percent have contracted the virus.

Since the beginning of the pandemic, 543,245 cases have been identified among individuals who are not fully vaccinated.

Five hundred eleven COVID-19 related deaths have occurred among the 150,141 fully vaccinated persons confirmed with COVID-19.

The table below shows cases and deaths among fully vaccinated persons by age group.

#### Cases and Deaths Among Fully Vaccinated Persons

Age groups	# (%) Cases	# (%) Deaths
5-11	2,472 (1.6%)	
12-15	6,254 (4.2%)	
16-24	21,387 (14.2%)	
25-34	26,028 (17.3%)	1 (0.2%)
35-44	26,379 (17.6%)	5 (1%)
45-54	25,376 (16.9%)	11 (2.2%)
55-64	22,871 (15.2%)	61 (11.9%)
65-74	11,249 (7.5%)	85 (16.6%)
75+	8,125 (5.4%)	348 (68.1%)
Total	150,141	511

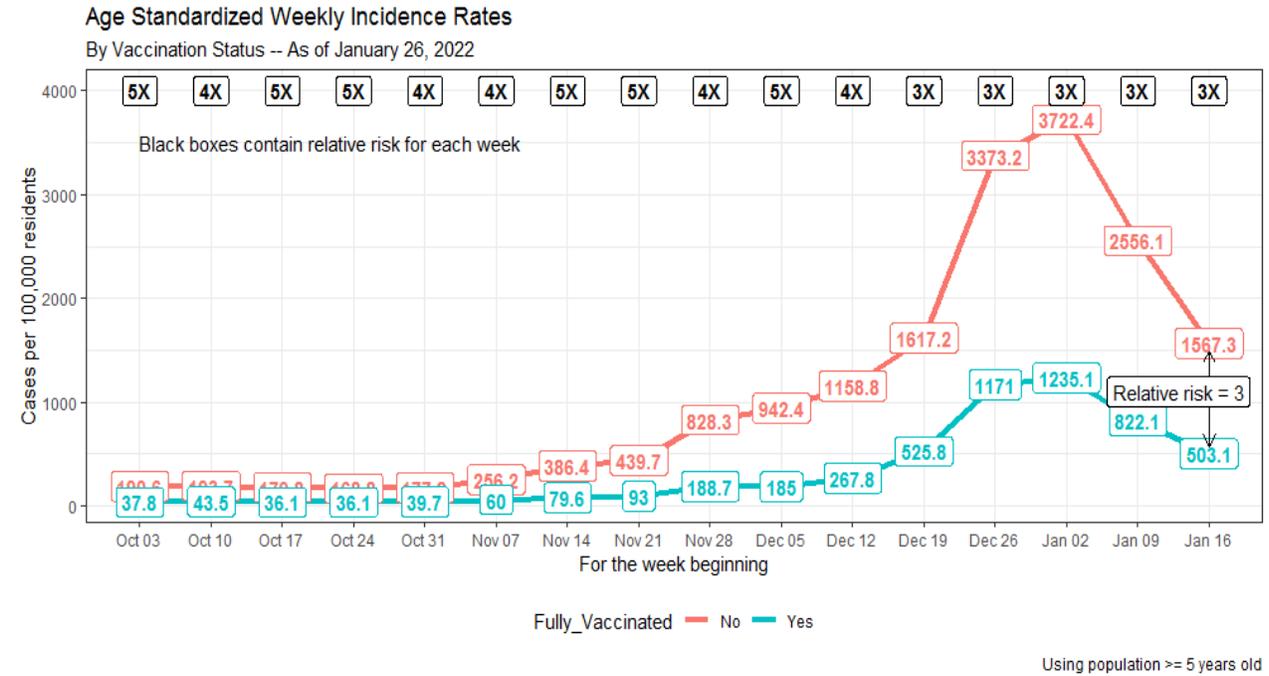
The risk of being infected, hospitalized or dying is higher when there is more virus spreading from person to person; being vaccinated against COVID-19 decreases the risk. The figures below show that rates of infection, hospitalization, and death, are highest among unvaccinated persons. The figures also show the relative risk (RR) which is the difference in risk when comparing rates between vaccinated and unvaccinated persons. When the relative risk is InfX, it means the risk was only for unvaccinated persons, since no deaths were reported among vaccinated persons that week.

The figures below are age standardized. The process of age-standardization allows for comparison of rates between groups when the age distributions of the two groups (e.g., vaccinated and unvaccinated) are different. The 2019 CT state population was used for age-adjustment purposes.

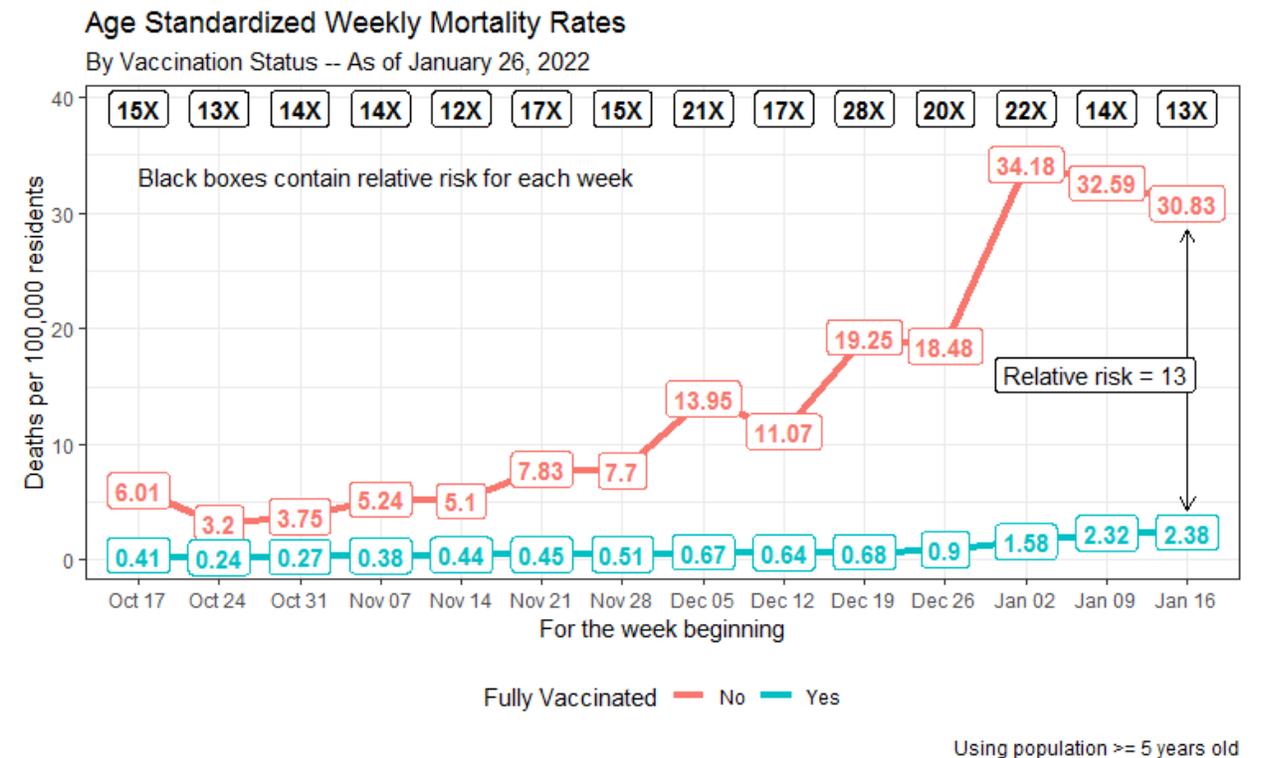
Compared to being vaccinated, being unvaccinated currently has the following relative risk:

- 3 Times higher risk of being infected with COVID-19
- 13 Times higher risk of dying from COVID-19
- 8 Times higher risk of being hospitalized with COVID-19

## COVID-19 Cases



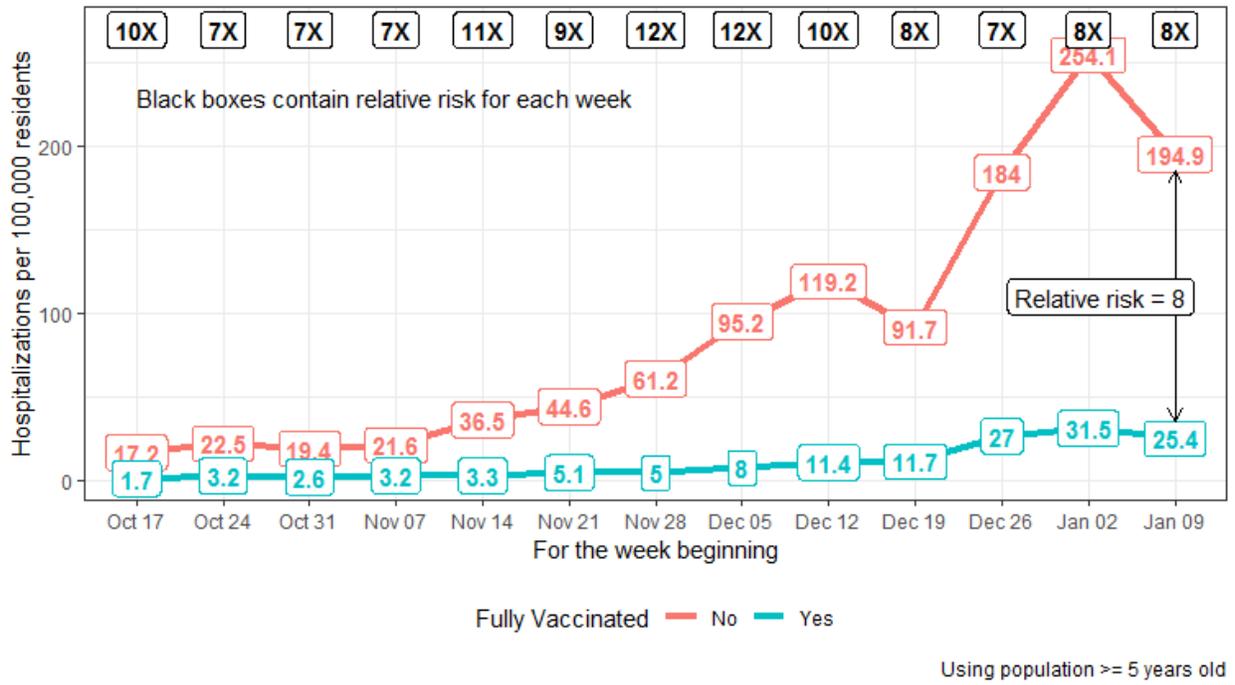
## COVID-19 Deaths



# COVID-19 Hospitalizations

## Age Standardized Weekly Hospital Admission Rates

By Vaccination Status -- As of January 26, 2022 -- Limited to residents of New Haven and Middlesex Counties



## SARS-CoV-2 Variant Surveillance

The Centers for Disease Control and Prevention (CDC) have identified three types of SARS-CoV-2 variants: variants of concern, variants being monitored, and variants of high consequence. The definitions for the three different variant categories and substitutions of therapeutic concern can be found here: [SARS-CoV-2 Variants of Concern | CDC](#).

Different terminology has been developed by international scientists for naming SARS-CoV-2 variants. Recently, the World Health Organization (WHO) developed new labels for describing these variants to the public. Below, both the Pango lineage and sub-lineages (used by CDC) and the WHO label are listed (if available) for each variant described.

Data provided are from the Global Initiative for Sharing Avian Influenza Data (GISAID). GISAID is a global science initiative established in 2008 that provides open-access to genomic data of influenza viruses and the SARS-CoV-2 virus responsible for the COVID-19 pandemic. Laboratories performing whole genome sequencing are encouraged to share their data on this website. More information about GISAID can be found at [GISAID - Initiative](#). This data source provides the ability to monitor all variants of the SARS-CoV-2 virus that are circulating and might be identified in the future.

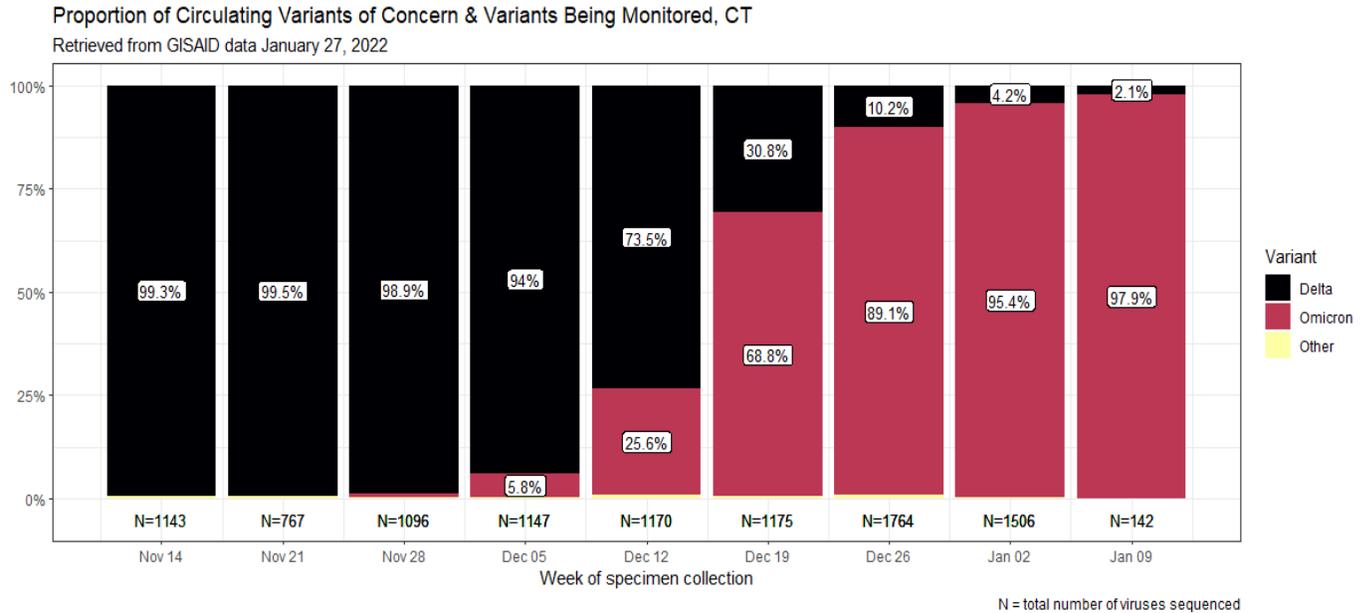
Below are data on variants of concern and variants being monitored identified among Connecticut residents. No variants of high consequence have been defined by CDC to date.

Data are from GISAID and represent sequences from specimens with dates of collection from 3/2/2020 to 2022-01-16. **The total number of SARS-CoV-2 sequences in GISAID for Connecticut residents are 29,406.**

	Number	Percentage
<b>Variants of Concern</b>		
B.1.617.2 and AY lineages (Delta)	16, 449	56.0%
B.1.1.529 and BA lineages (Omicron)	4,330	14.7%
<b>Variants Being Monitored</b>		
B.1.1.7 and Q lineages (Alpha)	3, 525	12.0%
B.1.351 and descendent lineages (Beta)	42	0.1%
P.1 and descendent lineages (Gamma)	227	1.0%
B.1.427/429 (Epsilon)	214	1.0%
B.1.525 (Eta)	21	0.1%
B.1.526 (Iota)	1, 594	5.4%
B.1.617.1 (Kappa)	7	0.02%
B.1.617.3	0	0%
B.1.621, B.1.621.1 (Mu)	120	0.4%
P.2 (Zeta)	9	0.3%

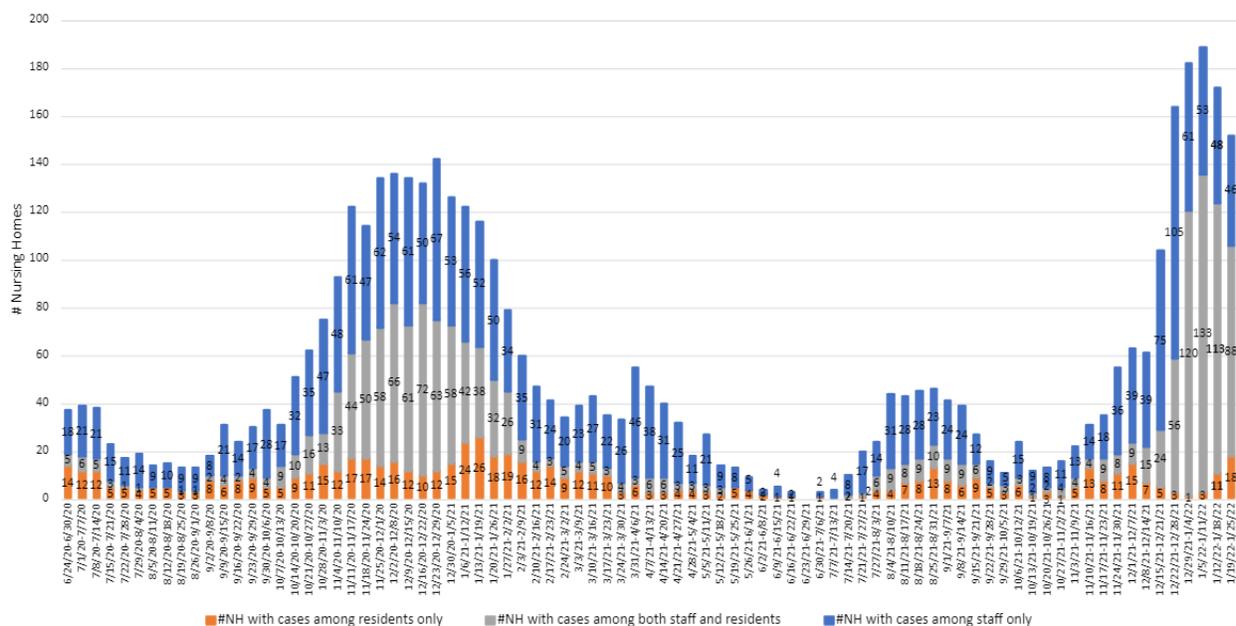
## SARS-CoV-2 Variant Surveillance, continued

The plot below, based on data extracted from GISAID on 1/27/2022, shows the change in proportion of circulating variants of concern by week. Data include sequences from specimens with dates of collection from 3/2/2020-1/9/2022.



Connecticut nursing homes are required by the Connecticut Department of Public Health (DPH) and the Centers for Medicare and Medicaid Services (CMS) to report on the impact of COVID-19 on their residents and staff through CDC’s National Healthcare Safety Network (NHSN). CT DPH uses data submitted to NHSN to produce a weekly nursing home report to depict recent COVID-19 activity in nursing homes. The following graph and table provide a quick overview of COVID-19 in CT nursing homes. For the complete DPH nursing home report, please see [Nursing Home and Assisted Living Facilities Data](#).

**Figure 1. Nursing Homes with Positive Staff or Residents October 27, 2020–January 25, 2022<sup>1,2,3</sup>**



<sup>1</sup> For more detailed information on COVID-19 reporting and NHSN, please see [here](#).  
<sup>2</sup> Similar to DPH, CMS makes COVID-19 nursing home data, including vaccination rates, publicly available. Please see [CMS' COVID-19 Nursing Home Data website](#).  
<sup>3</sup> 23 facilities did not report for this week, as of January 27, 2022.

**Table 1: Statewide COVID-19 Vaccination coverage among nursing home residents and staff from NHSN<sup>1,2</sup>**

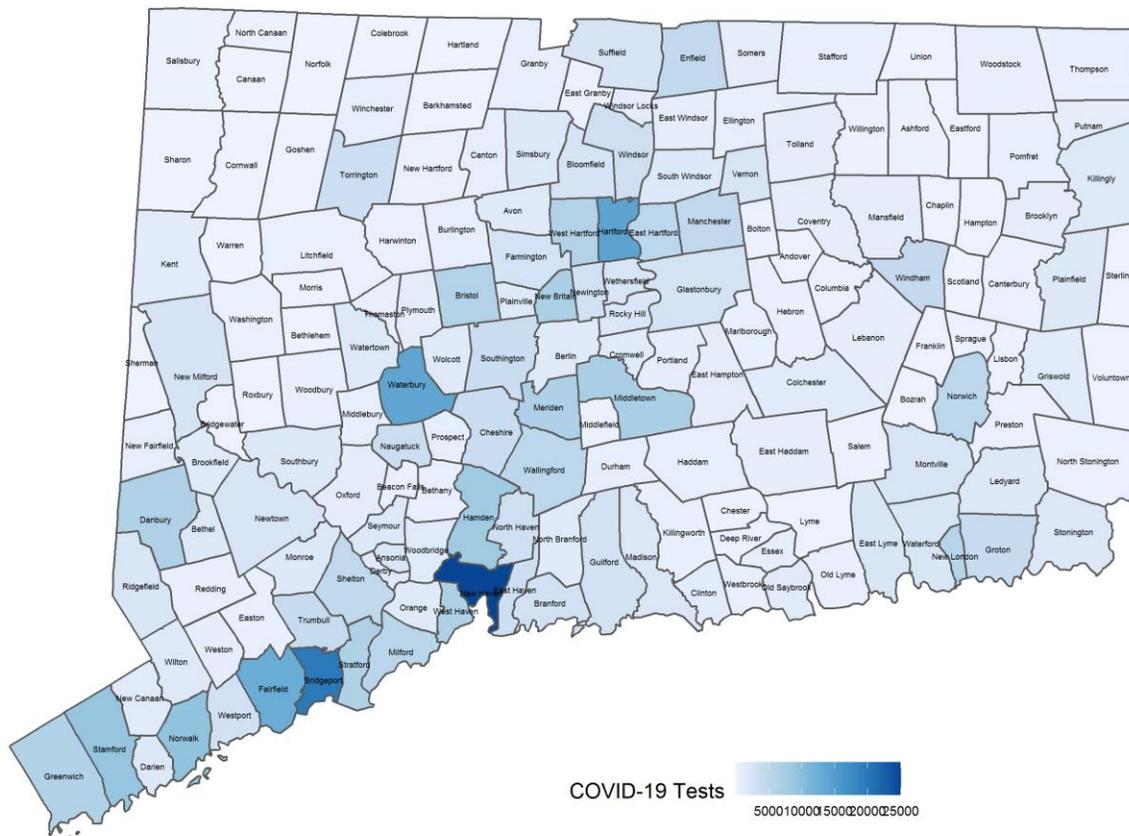
	Statewide COVID-19 Vaccination Rate Data as of January 16, 2022	
	Resident Vaccination Rates N= 198 homes	Staff Vaccination Rates N= 201 homes
Average Vaccination Rate	92%	97%
Median Vaccination Rate	95%	97%
Range of Vaccination Rates	67-100%	84-100%
% of the reporting nursing homes with vaccination rate ≥ 90%	74%	94%

<sup>1</sup> NHSN vaccine reporting instructions for nursing homes can be found [here](#).  
<sup>2</sup> Similar to DPH, CMS makes COVID-19 nursing home data, including vaccination rates, publicly available. Please see [CMS' COVID-19 Nursing Home Data website](#).

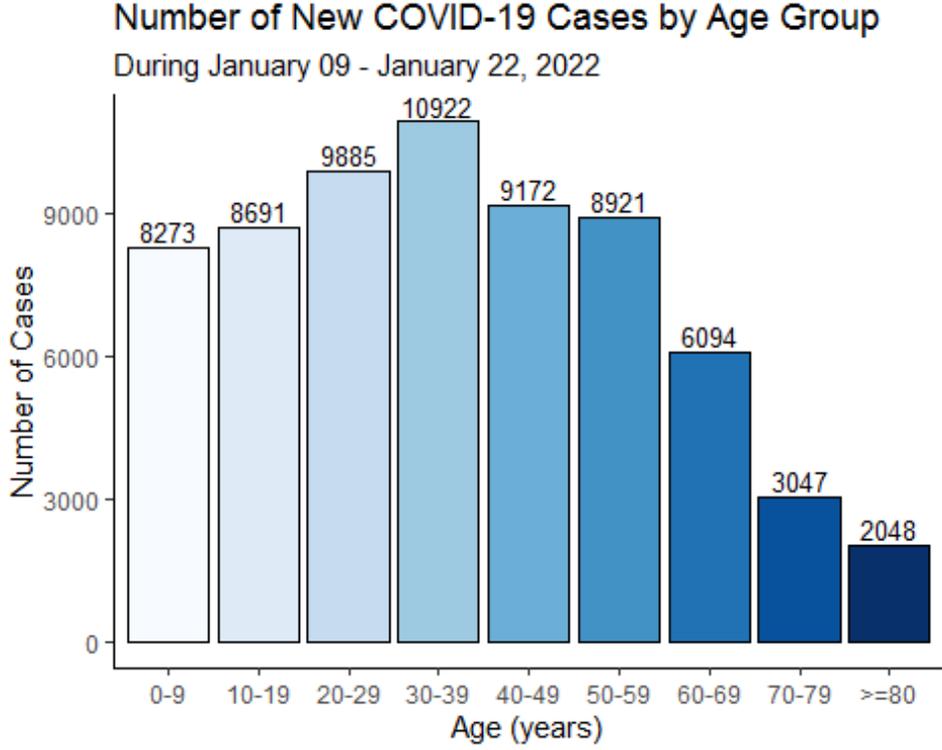
## COVID-19 Molecular and Antigen Tests during January 09 - January 22, 2022

Among 407,843 molecular and antigen tests for COVID-19 with specimen collection date during January 09 - January 22, 2022, 387,202 (95%) tests were conducted among people who did not reside in congregate settings (including nursing homes, assisted living, and correctional facilities). Of these 387,202 tests, 83,930 (22%) were positive. The map below shows the number of molecular and antigen COVID-19 tests by town with specimen collection date during January 09 - January 22, 2022 that were conducted among community residents.

Number of Molecular and Antigen Tests for COVID-19 among People Living in Community Settings by Town with Specimen Collection Date During January 09-22



**Age Distribution of COVID-19 Cases with Specimen Collection or Onset  
During January 09 - January 22, 2022**



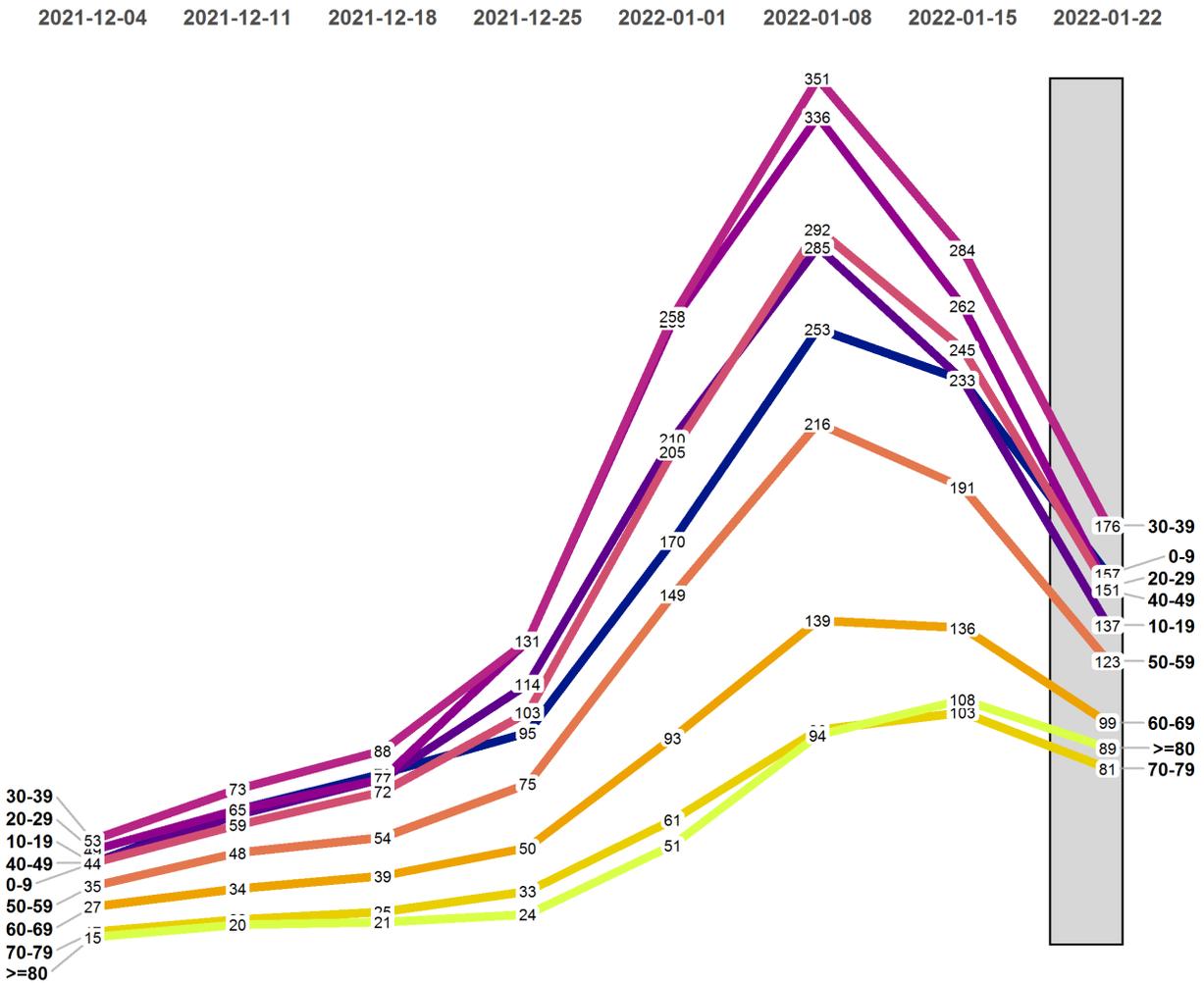
All data are preliminary and subject to change.

### Average Daily Incidence by Age Group

The chart below shows the average number of new COVID-19 cases per day per 100,000 population by age group. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual population in each age group, and then multiplying by 100,000.

### Average daily rate of COVID-19 cases by age group

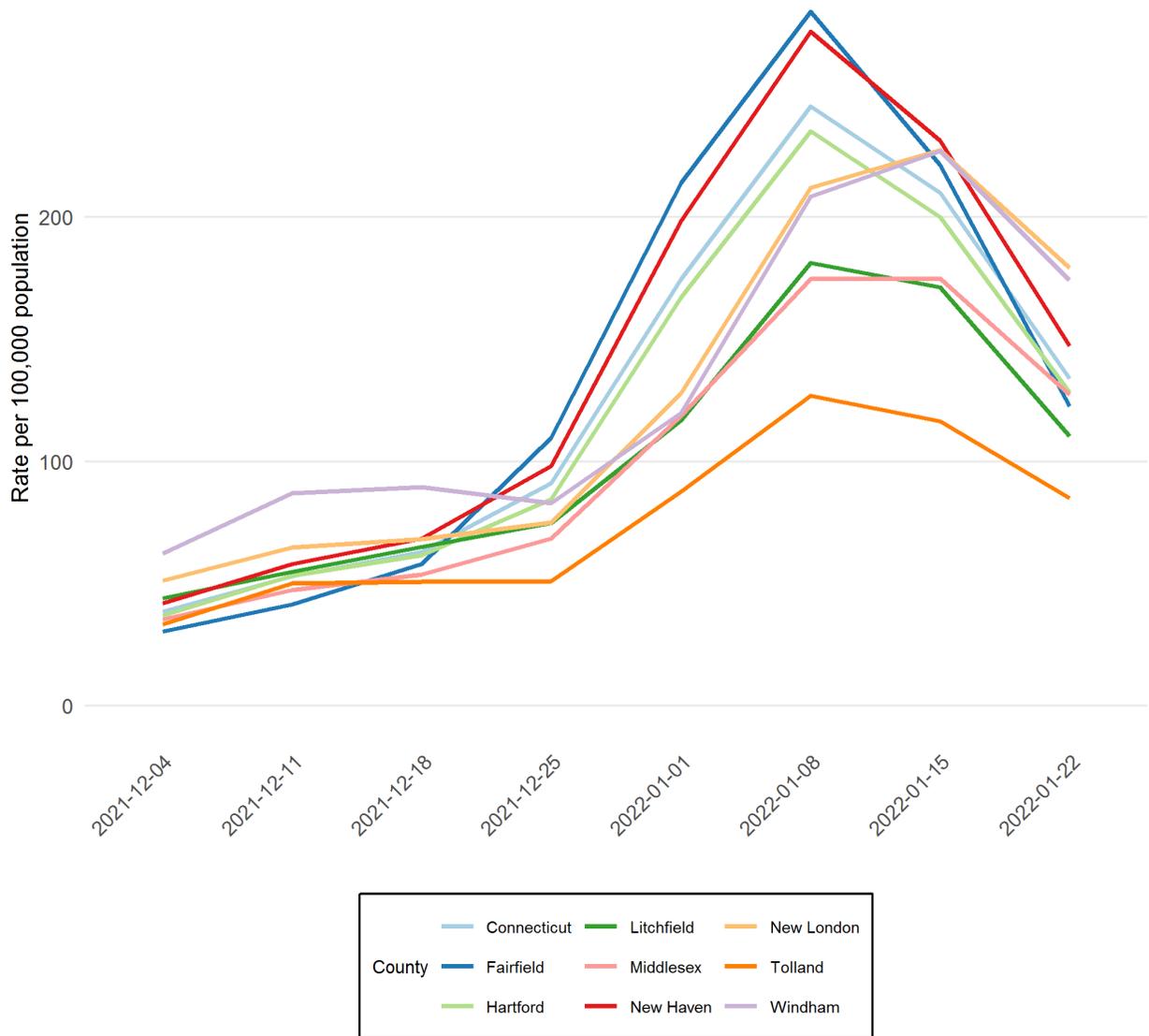
As of 01/26/2022



### Average Daily Incidence by County

The chart below shows the average number of new COVID-19 cases per day per 100,000 population in the state of Connecticut and for each Connecticut county. The rates in this chart are calculated by averaging the number of new cases diagnosed each day during the previous two weeks, dividing by the annual estimated population, and then multiplying by 100,000.

Average daily rates of COVID-19 cases by county  
As of 01/26/2022

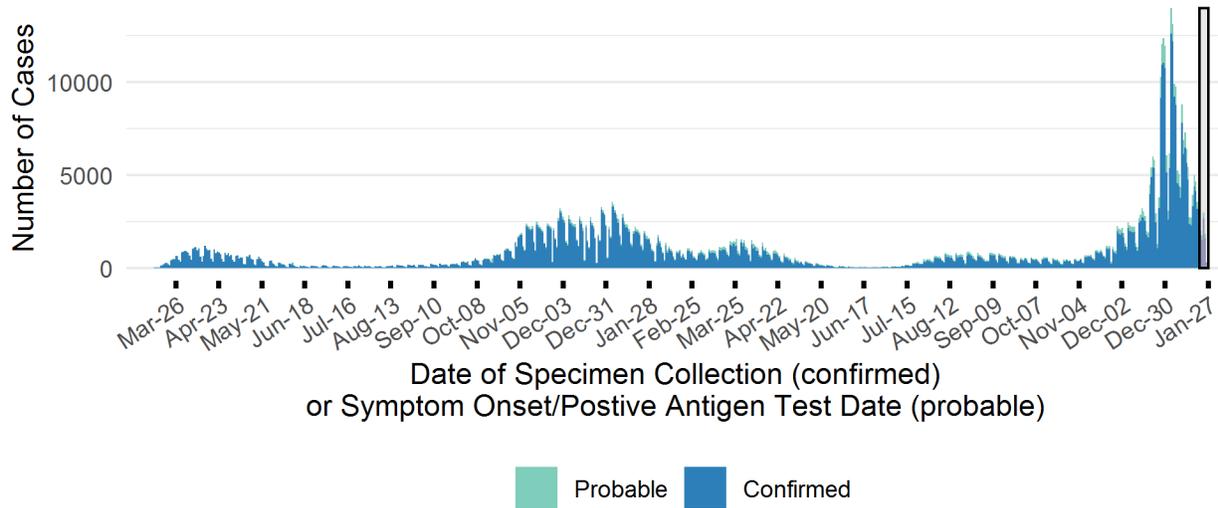


## Cumulative Number of COVID-19 Cases and COVID-19-Associated Deaths by Date

Test results may be reported several days after the result. Data are incomplete for most recent dates shaded in grey. Data from previous dates are routinely updated.

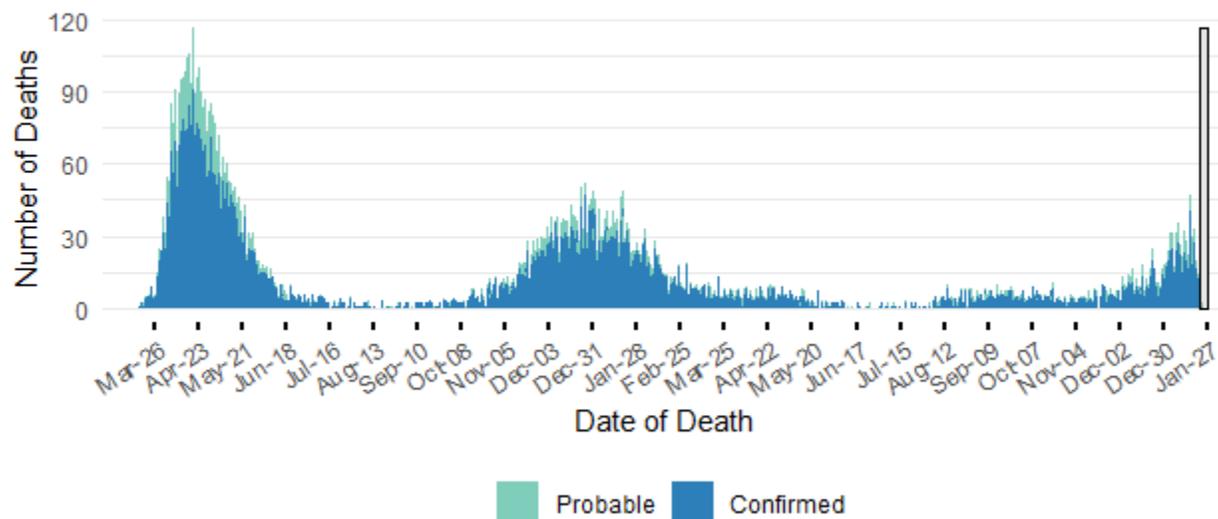
### Number of Confirmed and Probable COVID-19 Cases by Date

As of 01/26/2022



### Number of COVID-19-Associated Deaths by Date of Death

As of 01/26/2022

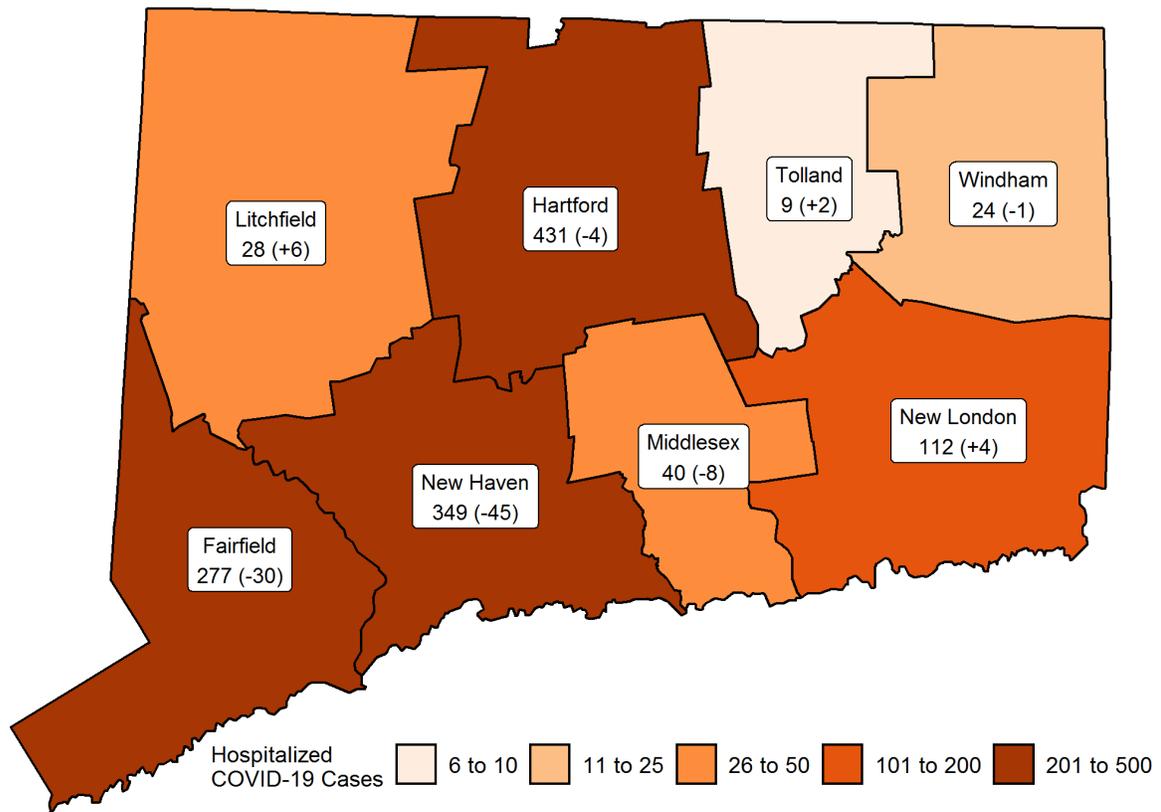


## Hospitalization Surveillance

The map below shows the number of patients currently hospitalized with laboratory-confirmed COVID-19 by county based on data collected by the Connecticut Hospital Association. The distribution is by location of hospital, not patient residence. The labels indicate the number of patients currently hospitalized with the change since yesterday in parentheses.

### Patients Currently Hospitalized by Connecticut County

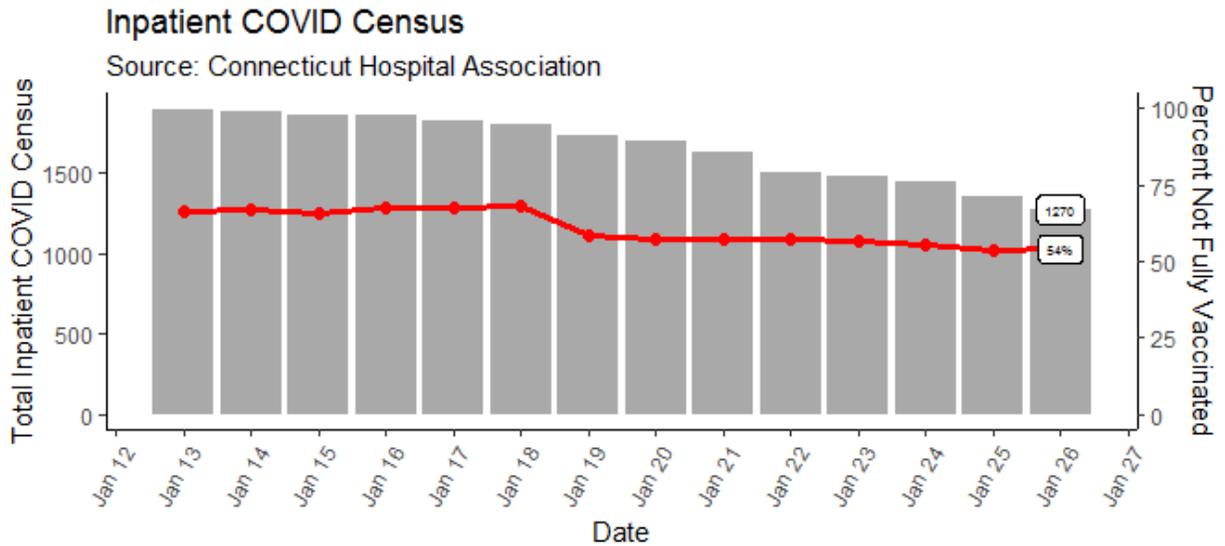
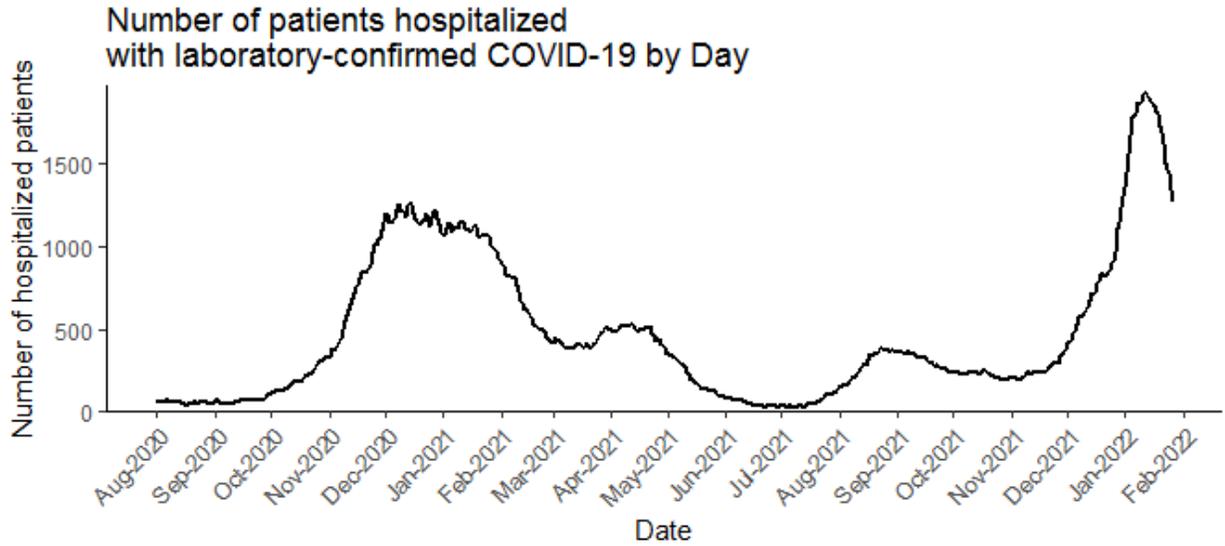
*Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.*



More information about hospitalized cases of COVID-19 in New Haven and Middlesex Counties is available from [COVID-NET](#).

### COVID-19 Hospital Census in Connecticut

The chart below shows the COVID-19 hospital census, which is the number of patients currently hospitalized with laboratory-confirmed COVID-19 on each day. Data were collected by the Connecticut Hospital Association and are shown since August 1, 2020

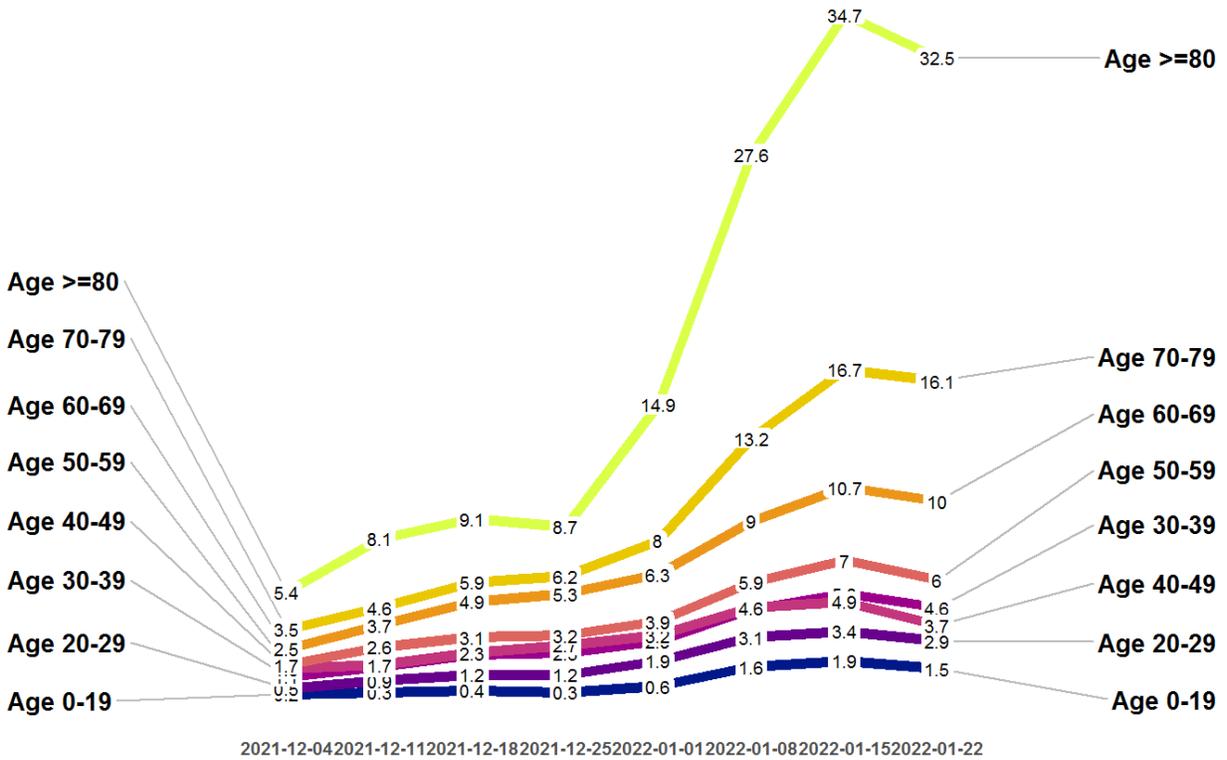


## COVID-19 Admissions

The chart below shows the average daily rate of hospital admissions with laboratory-confirmed COVID-19 by age group. The data used to create this plot were gathered from HHS Protect. More information on [HHS Protect data can be found here](#).

### Average daily COVID-19 hospital admission rate per 100,000, Connecticut

Data from HHS Protect



## Child Care-Associated Case Surveillance

The table below shows the number of cases among child care attendees and staff reported to the Department of Public Health (DPH). Licensed child care centers are required to report cases of COVID-19 among attendees and staff to the DPH and the local health department. There are 1,388 licensed child care centers and group child care homes in Connecticut that serve approximately 50,000 children. Beginning the week of January 9th, reporting transitioned from individual case reporting to aggregate reporting of cases among attendees and staff. The form for collecting aggregate data from child care centers can be found [here](#).

Data are preliminary and, like other passive surveillance systems, under reporting occurs and the true incidence of disease is more than the number of cases reported. Several weeks of data from the new reporting system will be needed to determine trends.

### Number of Reported Child Care-Associated Cases Statewide

Overall Summary	Total January 9 <sup>th</sup> – 15 <sup>th</sup>	Total January 16 <sup>th</sup> – 22 <sup>nd</sup>
Child Care Centers Reporting	322	382
COVID-19 Cases: Children Attendees	916	1026
COVID-19 Cases: Staff	334	384

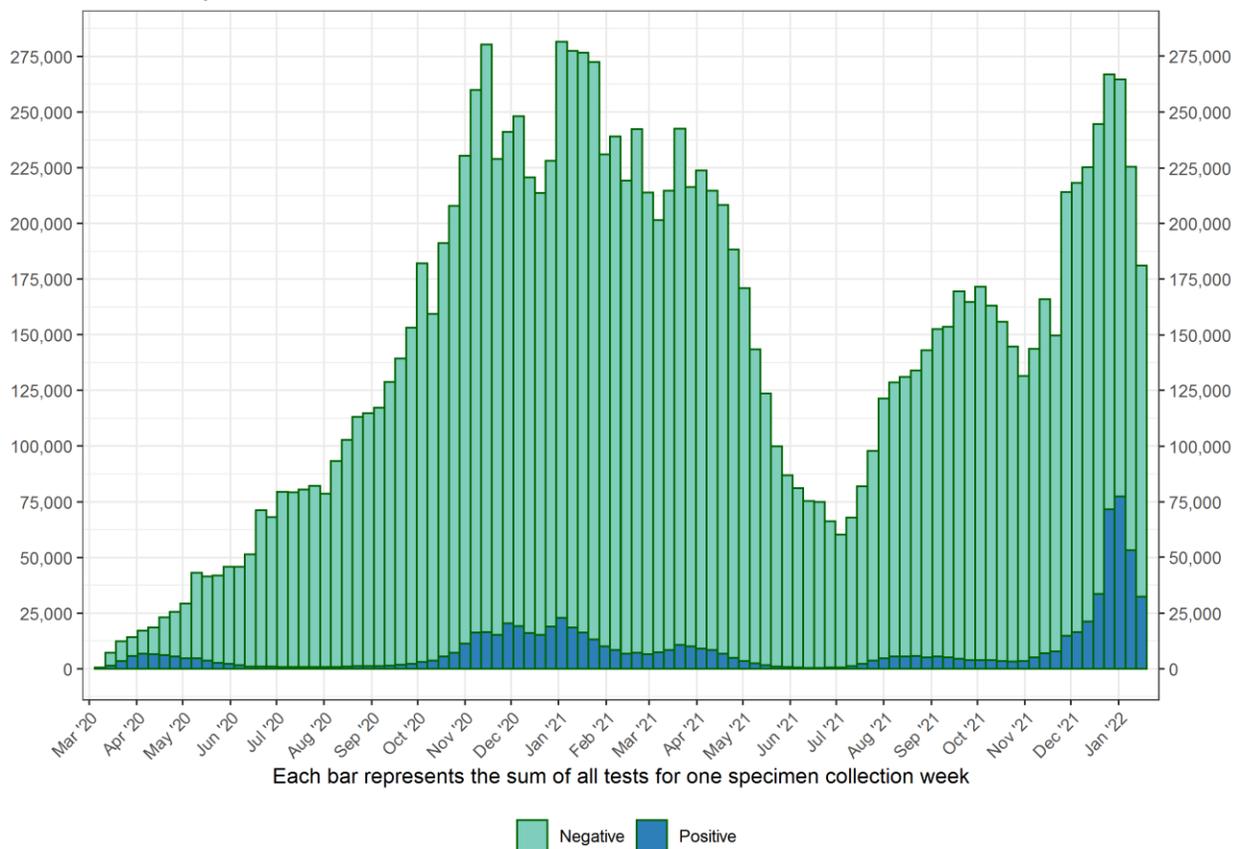
## Laboratory Surveillance

### Molecular Tests

To date, DPH has received reports on a total of 12,824,164 molecular COVID-19 laboratory tests; of these 12,667,391 test results were received via electronic laboratory reporting (ELR) methods from commercial laboratories, hospital laboratories, and the Dr. Katherine A. Kelley State Public Health Laboratory. The chart below shows the number of tests reported via ELR by date of specimen collection and test result.

*Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.*

Number of Molecular Laboratory Tests for COVID-19 Reported via ELR  
Weekly test total by Specimen Collection Date  
As of January 26, 2022



*Testing of recently collected specimens is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.*

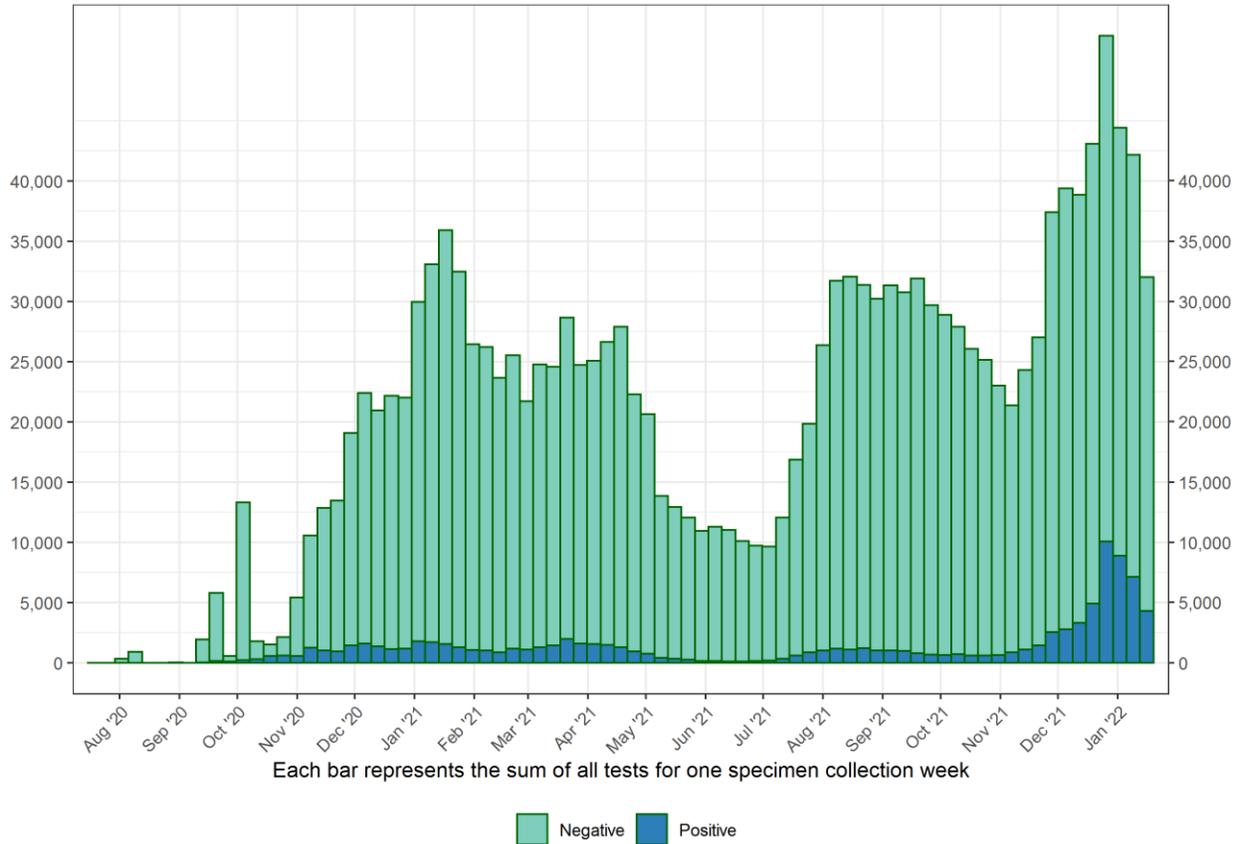
*ELR = Electronic Laboratory Reporting*

## Antigen Tests

To date, DPH has received reports on a total of 1,628,434 COVID-19 antigen laboratory tests. The chart below shows the number of antigen tests reported to DPH by specimen collection date and test result.

*Test results may be reported several days after specimen collection. Data are incomplete for most recent dates shaded in grey. Data for previous dates are routinely updated.*

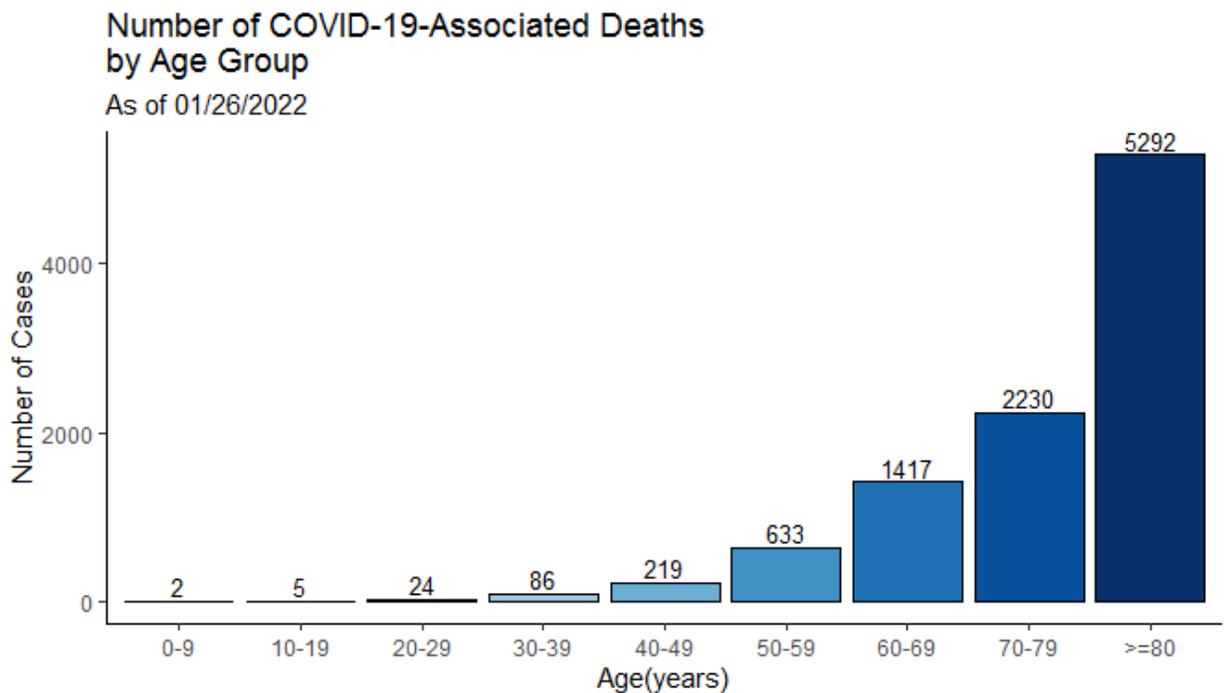
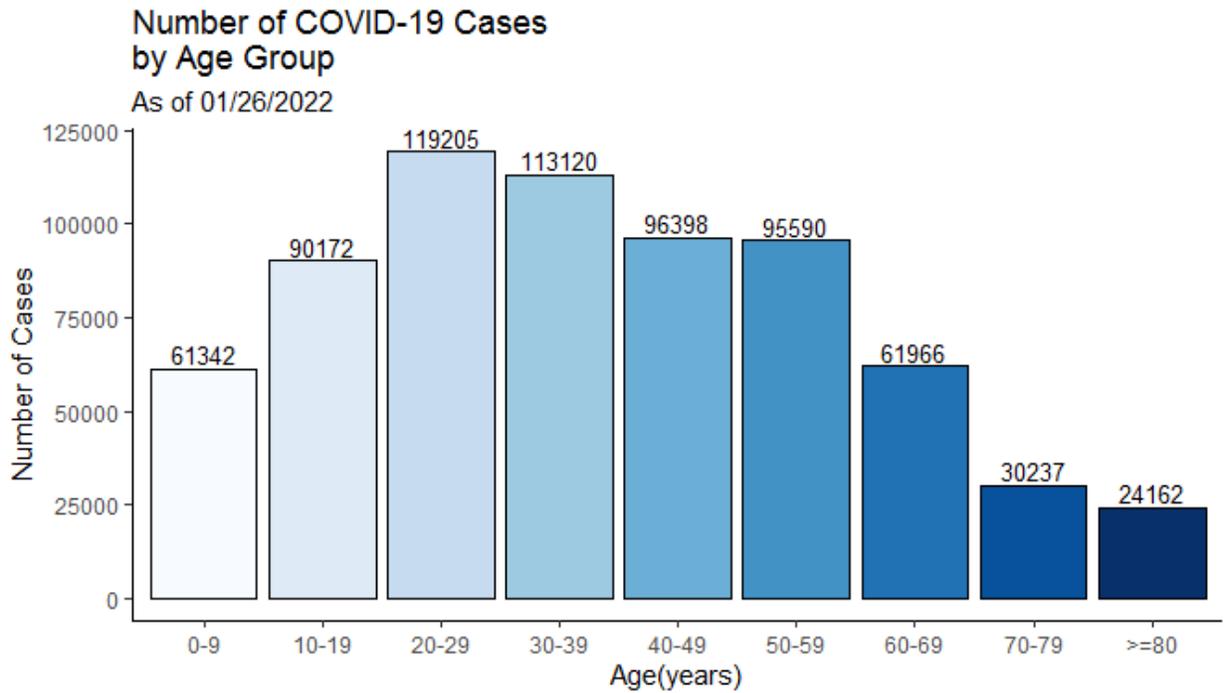
Number of Antigen Tests for COVID-19 Reported via ELR  
Weekly test total by Specimen Collection Date  
As of January 26, 2022



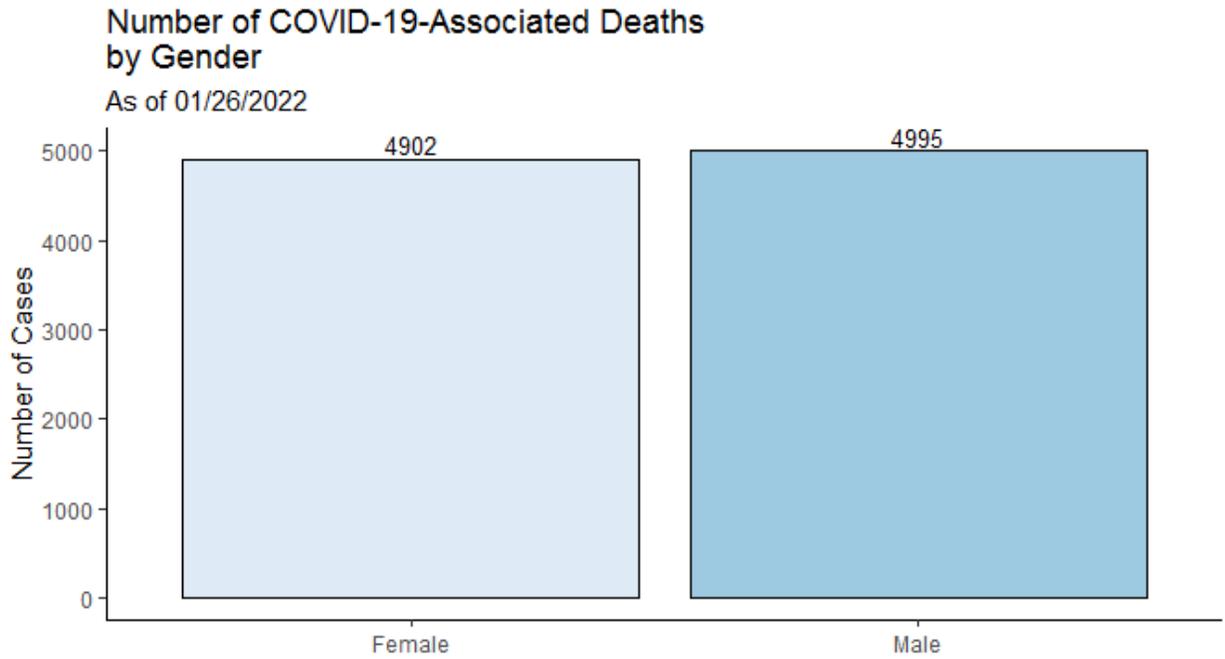
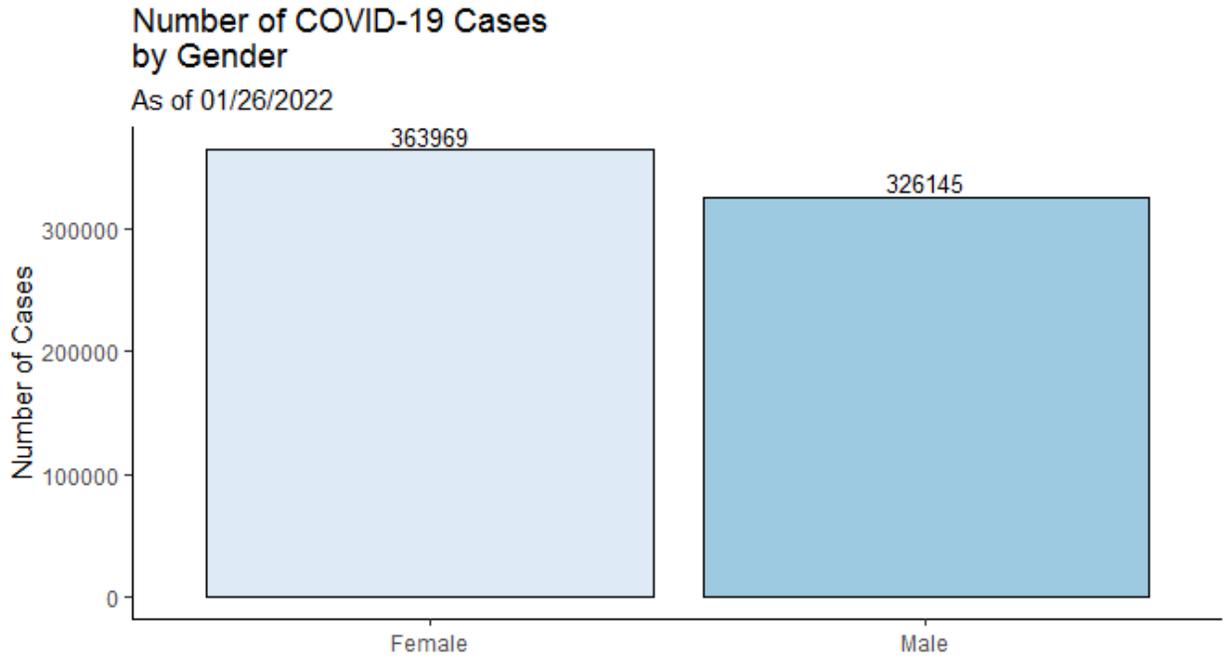
*Testing of recently collected specimens is ongoing and does not reflect a decrease in testing.*

## Characteristics of COVID-19 Cases and Associated Deaths

Counts may not add up to total case count because demographic data may be missing.

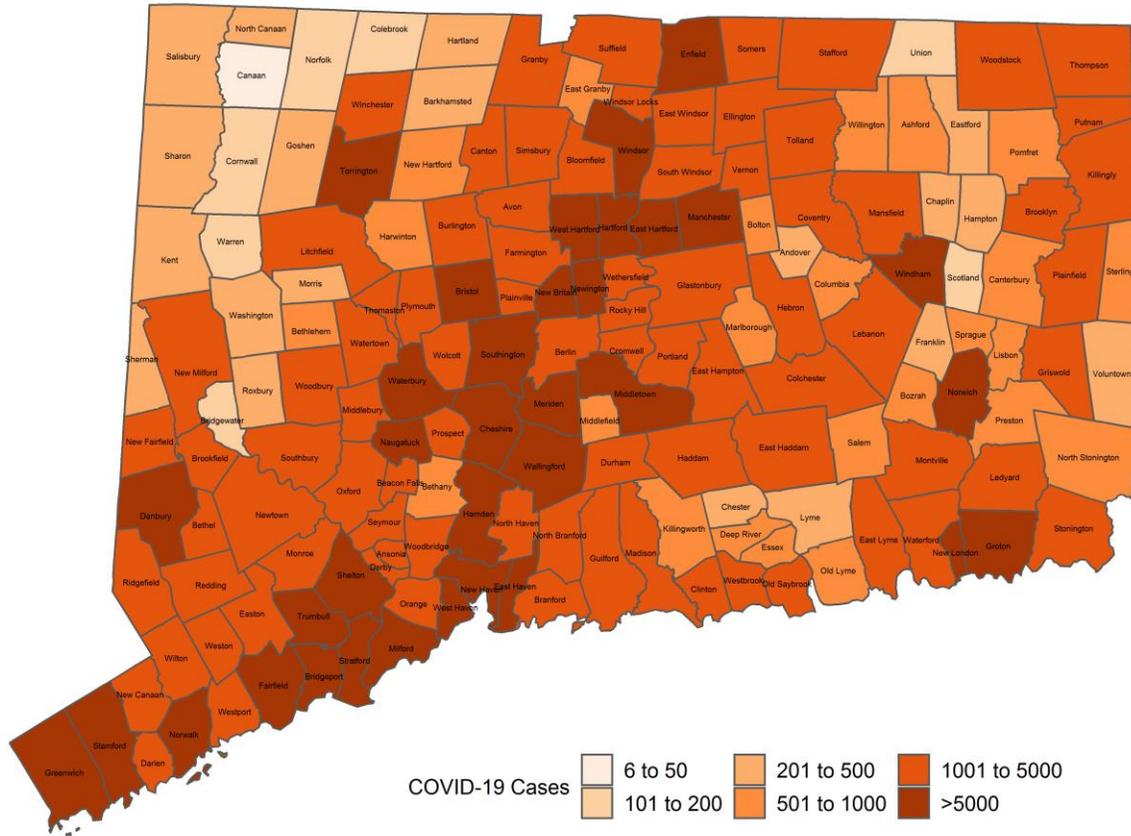


Counts may not add up to total case count because demographic data may be missing.



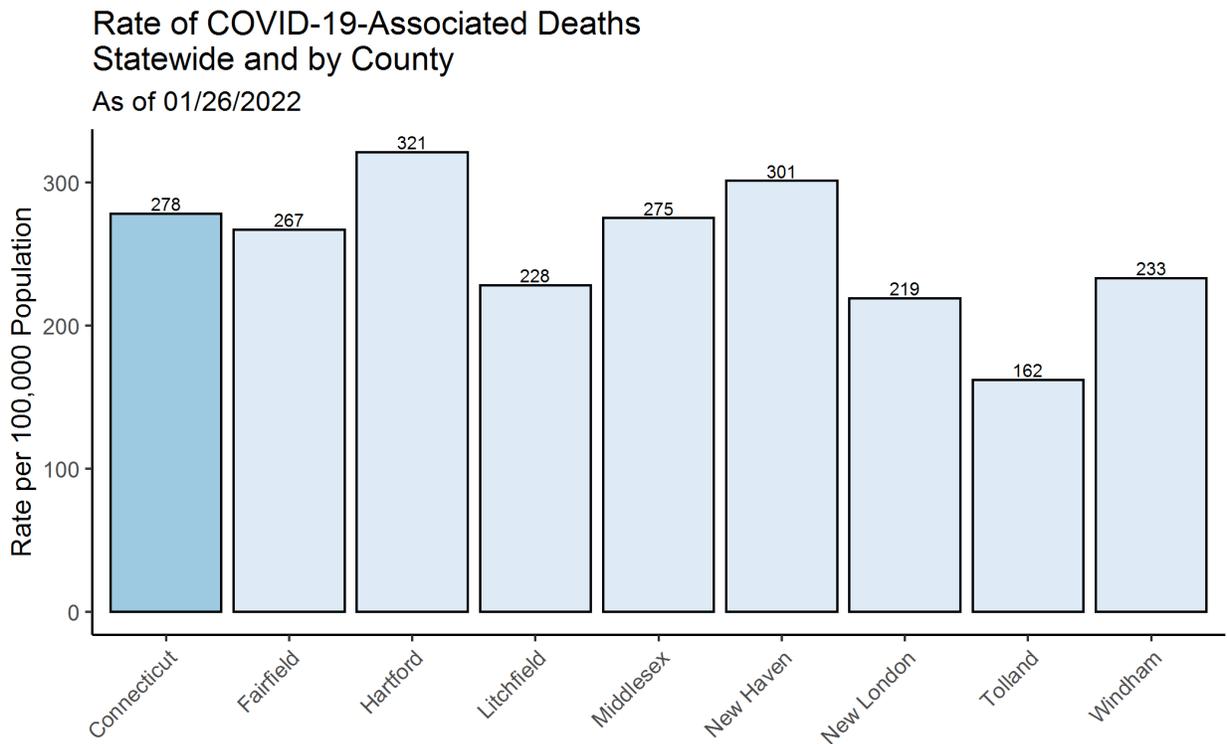
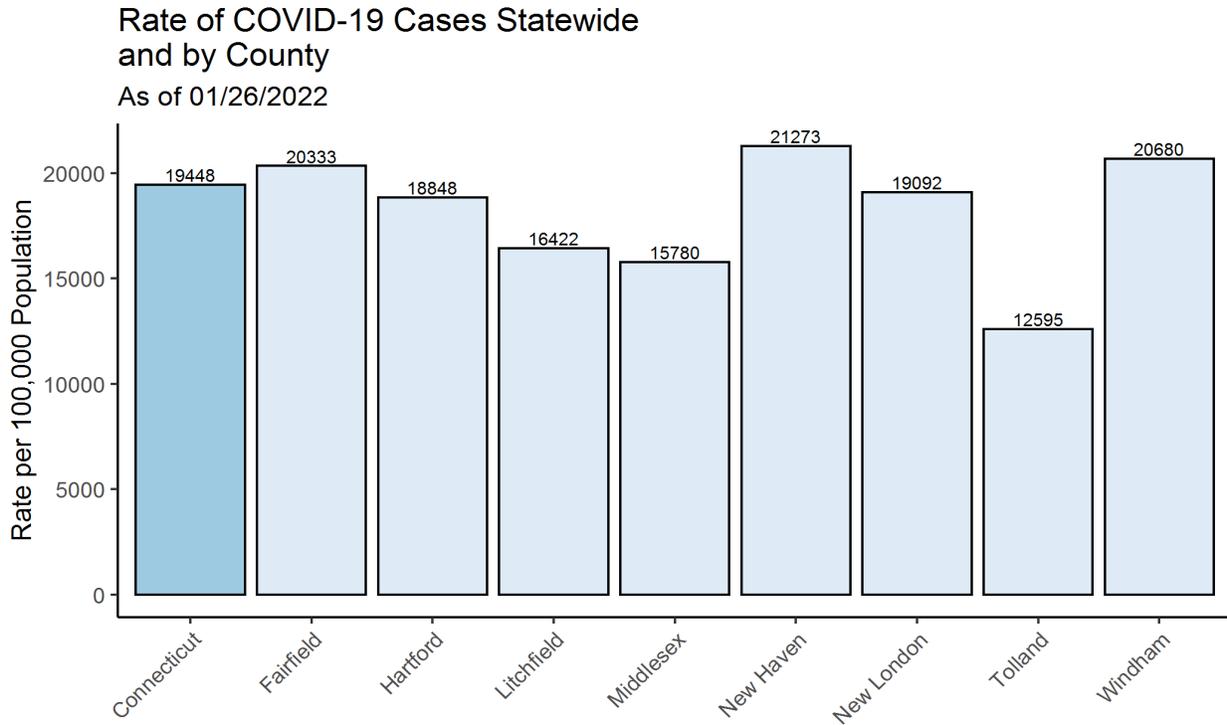
# Cumulative Number of COVID-19 Cases by Town

Map does not include 2658 cases pending address validation



All data are preliminary and subject to change.

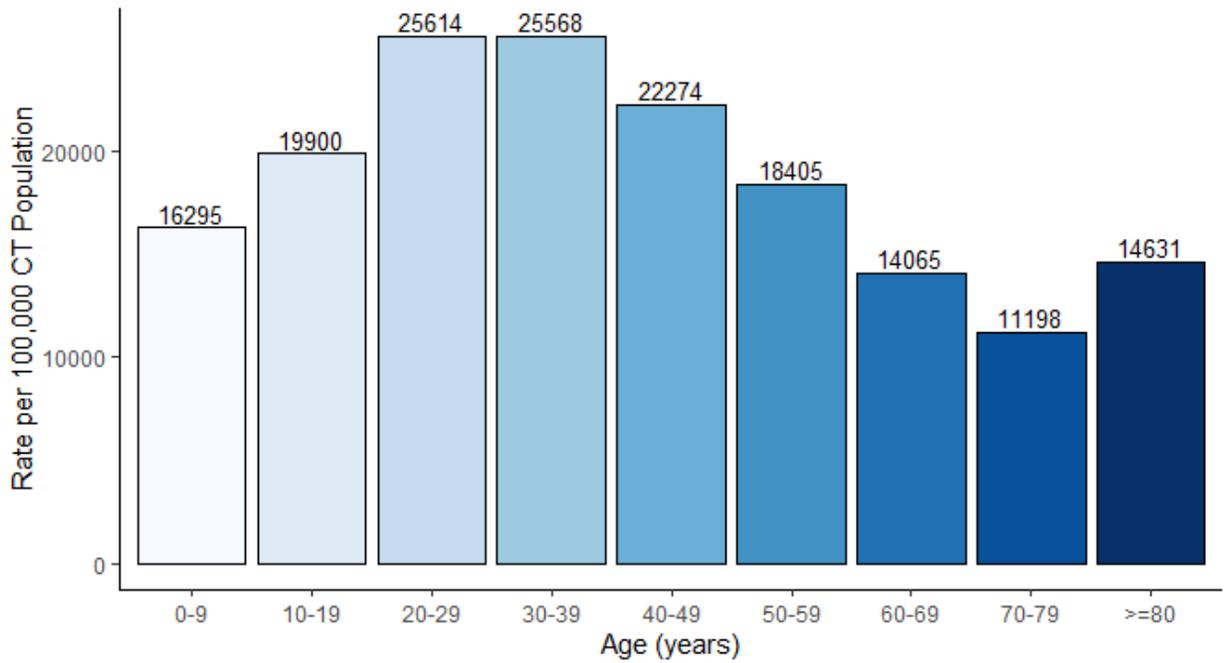
**APPENDIX A.** The following graphs show the number of cases per 100,000 Connecticut residents statewide and by county, age group, and gender. Population estimates from: [DPH Population Statistics](#).



All data are preliminary and subject to change.

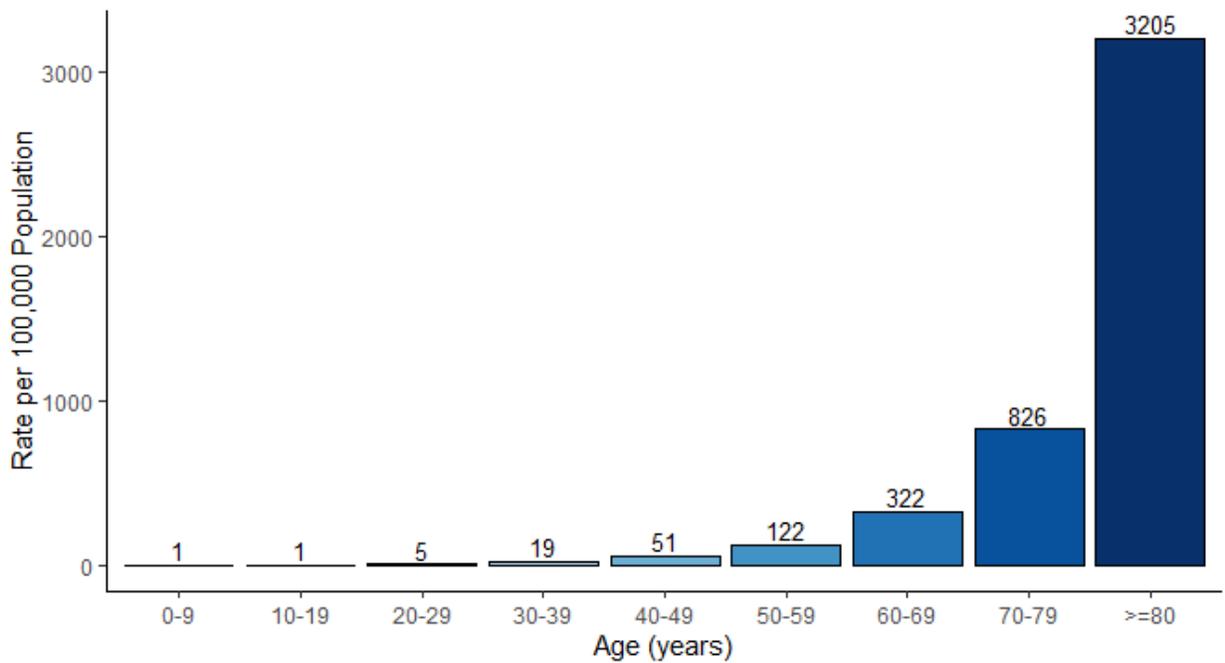
### Rate of COVID-19 Cases by Age Group

As of 01/26/2022



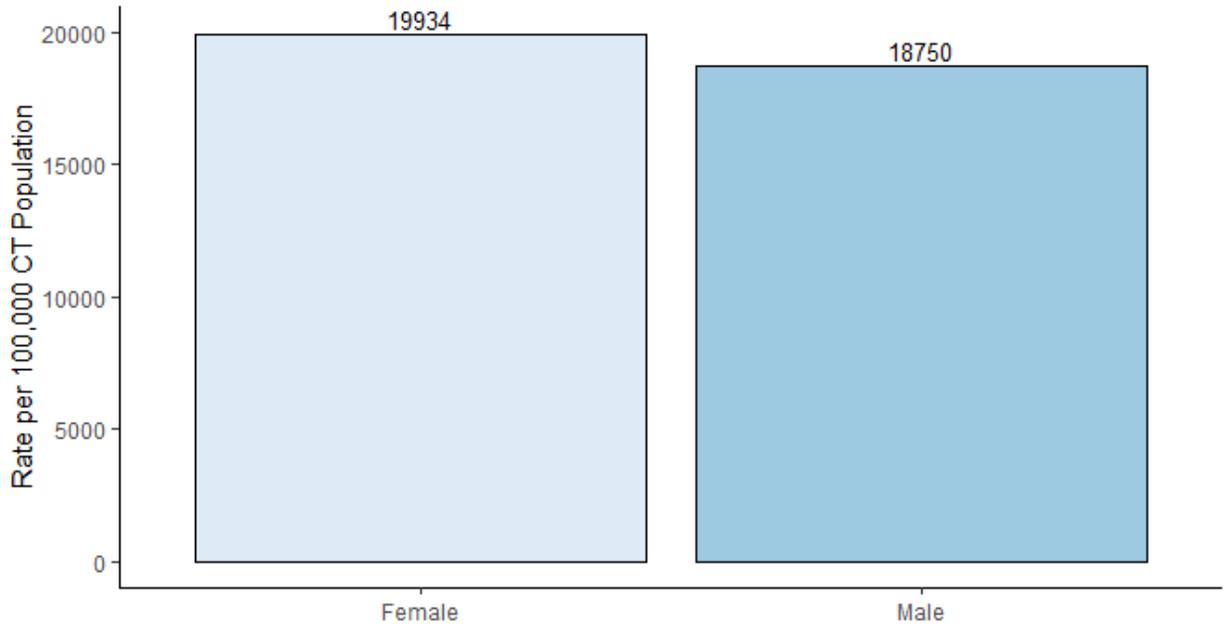
### Rate of COVID-19-Associated Deaths by Age Group

As of 01/26/2022



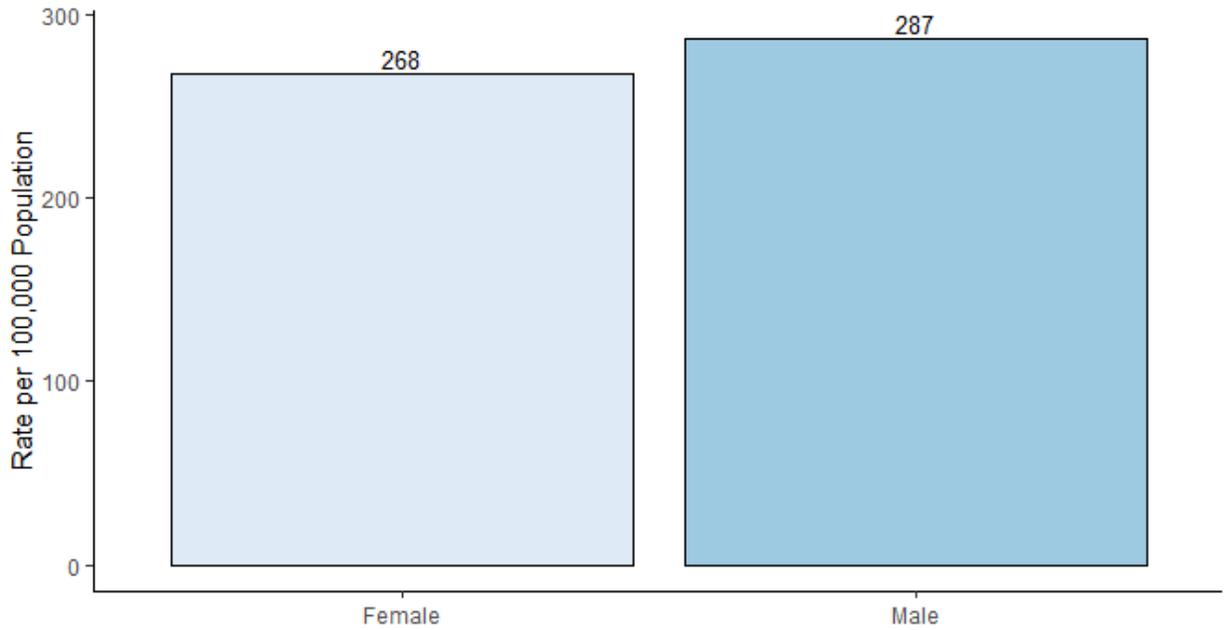
### Rate of COVID-19 Cases by Gender

As of 01/26/2022

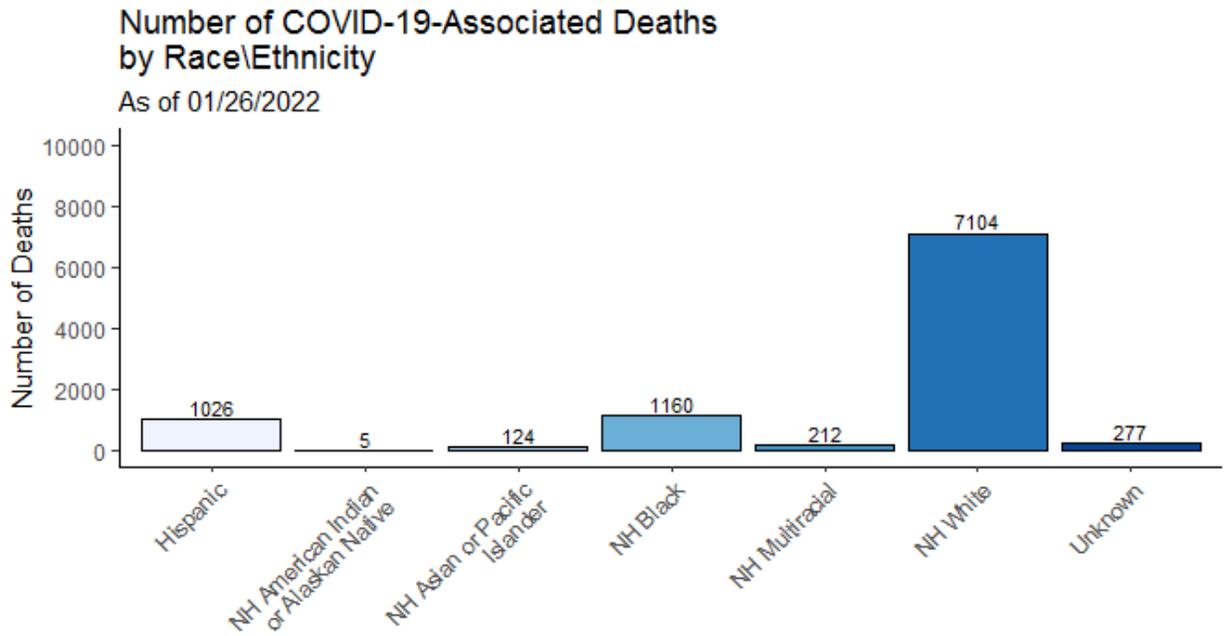
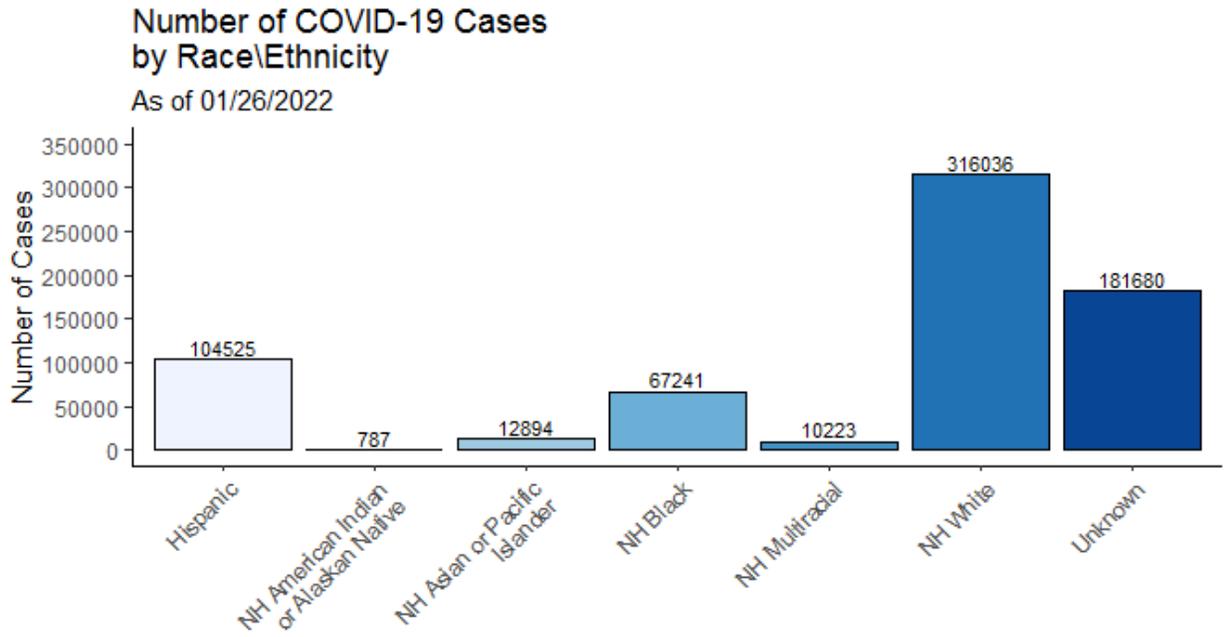


### Rate of COVID-19-Associated Deaths by Gender

As of 01/26/2022

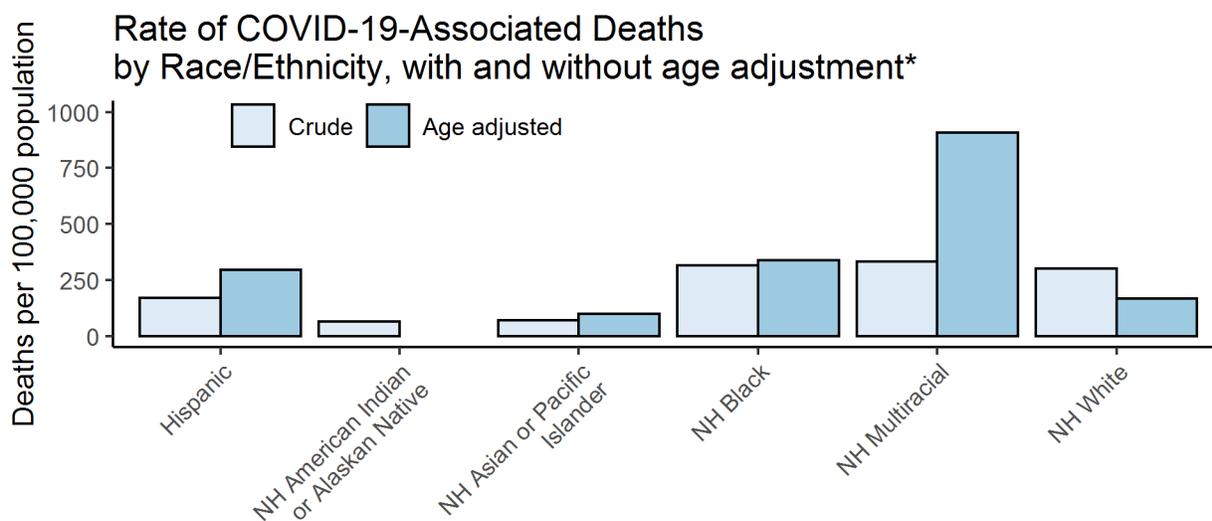
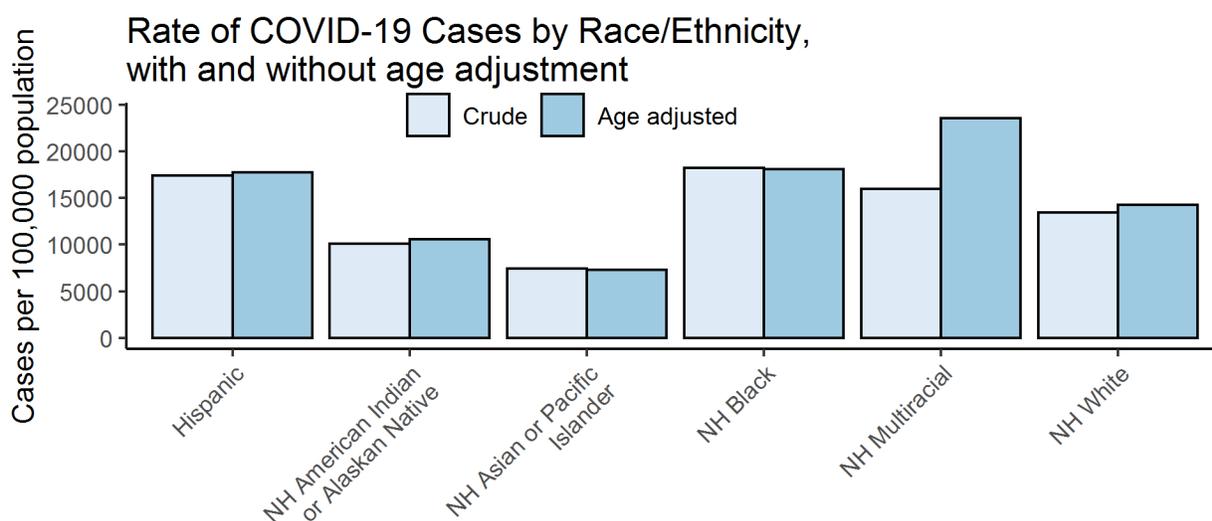


**APPENDIX B.** The following graphs show the number of cases and deaths by race and ethnicity. Categories are mutually exclusive. The category “multiracial” includes people who answered ‘yes’ to more than one race category. NH=Non-Hispanic



The following graphs show the number of COVID-19 cases and COVID-19-associated deaths per 100,000 population by race and ethnicity. Crude rates represent the total cases or deaths per 100,000 people. Age-adjusted rates consider the age of the person at diagnosis or death when estimating the rate and use a standardized population to provide a fair comparison between population groups with different age distributions. Age-adjustment is important in Connecticut as the median age of among the non-Hispanic white population is 47 years, whereas it is 34 years among non-Hispanic blacks, and 29 years among Hispanics. Because most non-Hispanic white residents who died were over 75 years of age, the age-adjusted rates are lower than the unadjusted rates. In contrast, Hispanic residents who died tend to be younger than 75 years of age which results in higher age-adjusted rates.

The 2018 Connecticut and 2000 US Standard Million populations were used for age adjustment; population estimates from: [DPH Population Statistics](#). Categories are mutually exclusive. Cases missing data on race/ethnicity are excluded from calculation of rates. NH=Non-Hispanic



\*Age adjusted rates only calculated for groups with at least 30 deaths