COVID-19 Update June 01, 2023

As of **May 31, 2023**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **983,652**; **280** have been reported in the past 7 days. **Sixty-three** patients are currently hospitalized with laboratory-confirmed COVID-19; of these, **25** (39.68%) are not fully vaccinated.

Overall Summary	Cumulative (except for hospital census)	Past 7 days*
Positive PCR/NAAT Tests	1,070,129	245
Patients currently hospitalized with COVID-19	63	+3
COVID-19-Associated Deaths	12,354	+7

* Hospitalizations over the past 7 days indicates the change in the number of patients hospitalized with COVID-19 over that period. Deaths over the past 7 days indicates the number of new COVID-19 associated deaths reported; deaths are reported once weekly.

Cumulative COVID-19 Cases and Associated Deaths by County of Residence

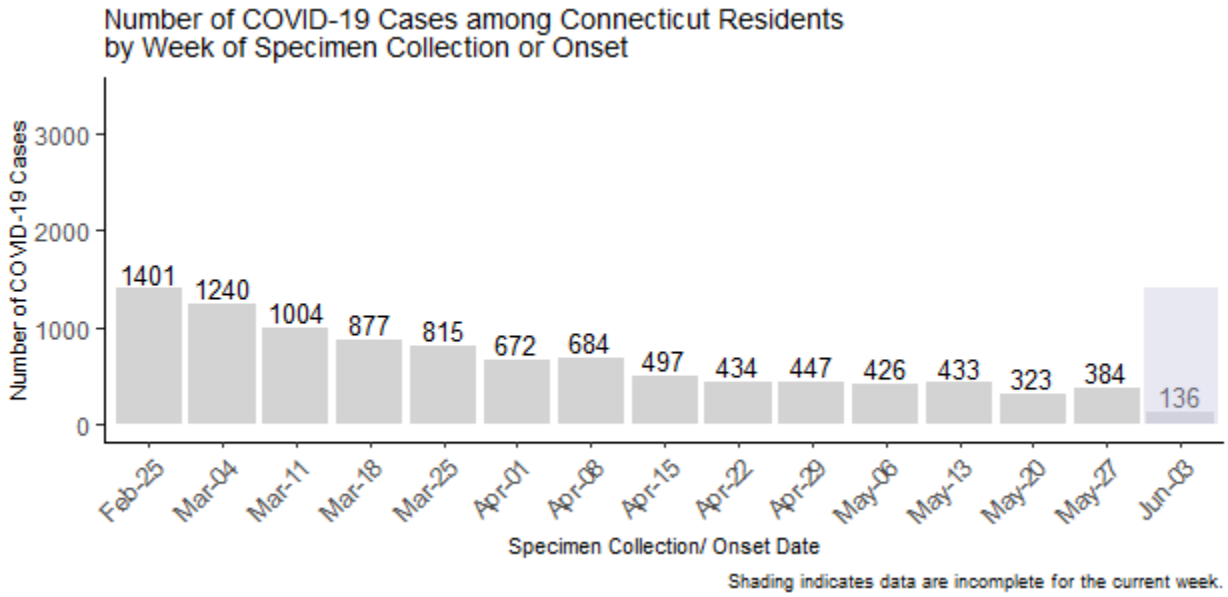
County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	237,846	28,023	2,469	584
Hartford County	207,741	31,372	2,837	684
Litchfield County	35,585	6,605	457	85
Middlesex County	35,349	3,850	375	180
New Haven County	229,102	30,523	2,745	459
New London County	66,487	8,056	615	180
Tolland County	24,449	3,702	226	96
Windham County	29,396	2,271	277	80
Pending address validation	2,772	523	1	4
Total	**868727**	**114925**	**10002**	**2352**

Information about preventing spread of COVID-19 are available from the Centers for Disease Control and Prevention.

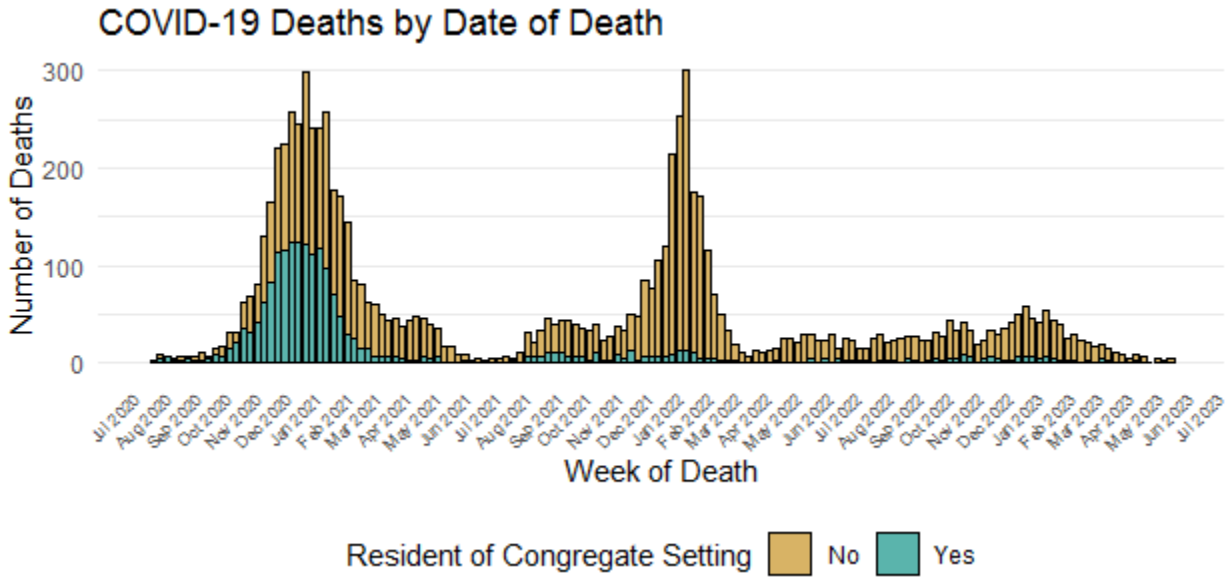
Day-to-day changes reflect newly reported cases, deaths, and tests that occurred over the last several days to week. All data in this report are preliminary; data for previous dates will be updated as new reports are received and data errors are corrected. Hospitalization data were collected by the Connecticut Hospital Association. Deaths reported to either OCME or DPH are included in the weekly 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 previous 7 days (May 25-31), there were 280 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.



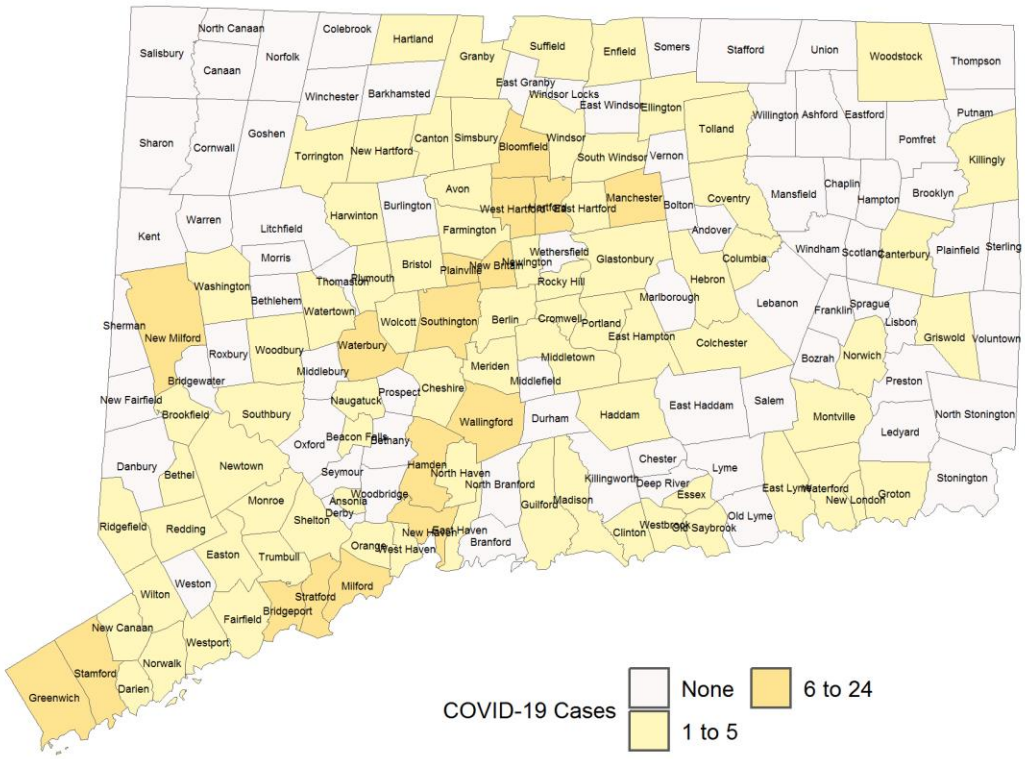
The graph below shows the number of COVID-19 associated deaths since August 1, 2020 by week of death and whether the person was residing in a congregate setting, such as a nursing home, managed residential community, or correctional facility.



Community Transmission of COVID-19

There were 280 new COVID-19 cases with specimen collection date during May 25-31, as shown in the map below. During this seven-day period, the statewide case rate was 7.765 per 100,000 CT population; there were more than 100 new COVID-19 cases in 0 towns.

Number of COVID-19 Cases by Town
with Specimen Collection date during May 25-31



Map does not include 1 *cases pending address validation*

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, the WHO label are listed for each variant described.

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 presented are based on variant data reported directly to DPH and include data since January 2021-present.

Data below represent sequences that have been reported to DPH as of 05/31/2023 with specimen collection dates between 01/12/2021 and 05/17/2023. **The total number of SARS-CoV-2 sequences reported to DPH with a valid specimen collection date is 54991.** Data are preliminary and updated as new data are received.

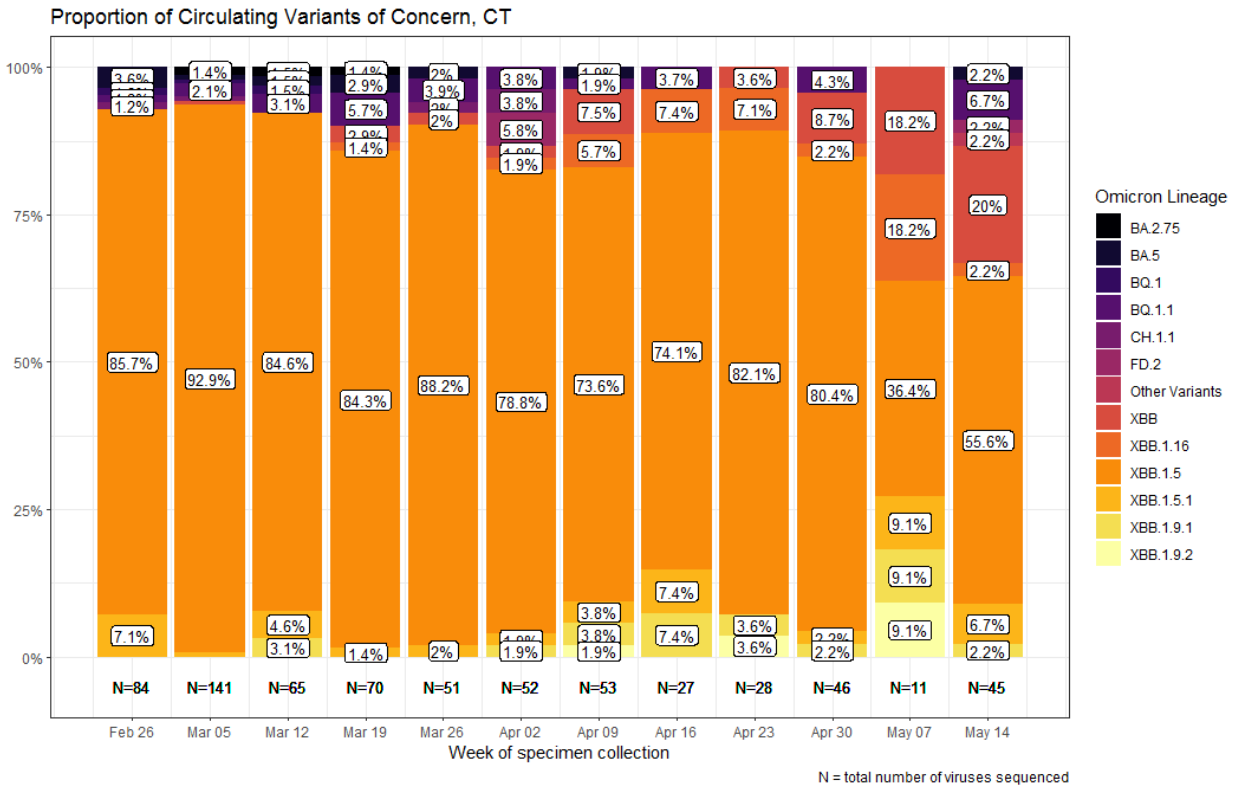
Variant	Number	Percentage
Omicron	32,751	59.56
Delta	17,225	31.32
Alpha	2,522	4.59
Iota	1,082	1.97
Other	1,056	1.92
Gamma	137	0.25
Mu	84	0.15
Epsilon	60	0.11
Lambda	38	0.07
Beta	23	0.04
Eta	10	0.02
Kappa	2	0.00
Zeta	1	0.00

SARS-CoV-2 Variant Surveillance, continued

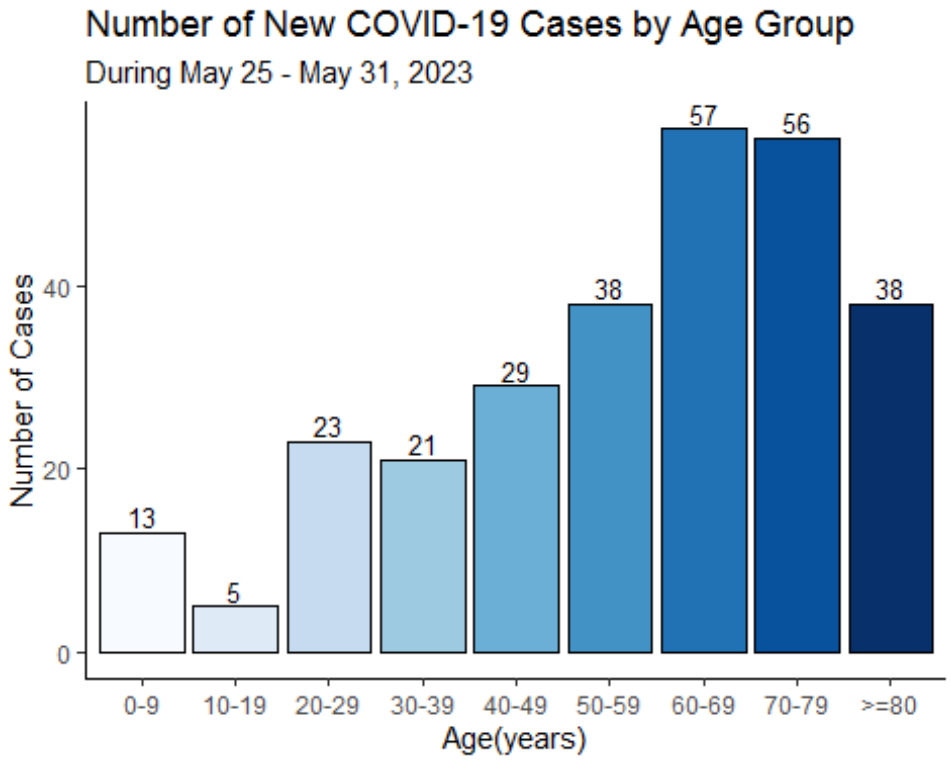
The figure below shows the change in proportion of circulating variants of concern by week reported to DPH through May 31, 2023. Variants identified as Omicron are shown by sublineage and all other variants are included as "Other Variants". Data include sequences from specimens with dates of collection from 01/12/2021–05/17/2023.

As of July 21, 2022, the plot below has been updated to reflect the following changes:

- BA.2 includes BA.2 and all sublineages except BA.2.12.1, BA.2.75, BN.1, and XBB.

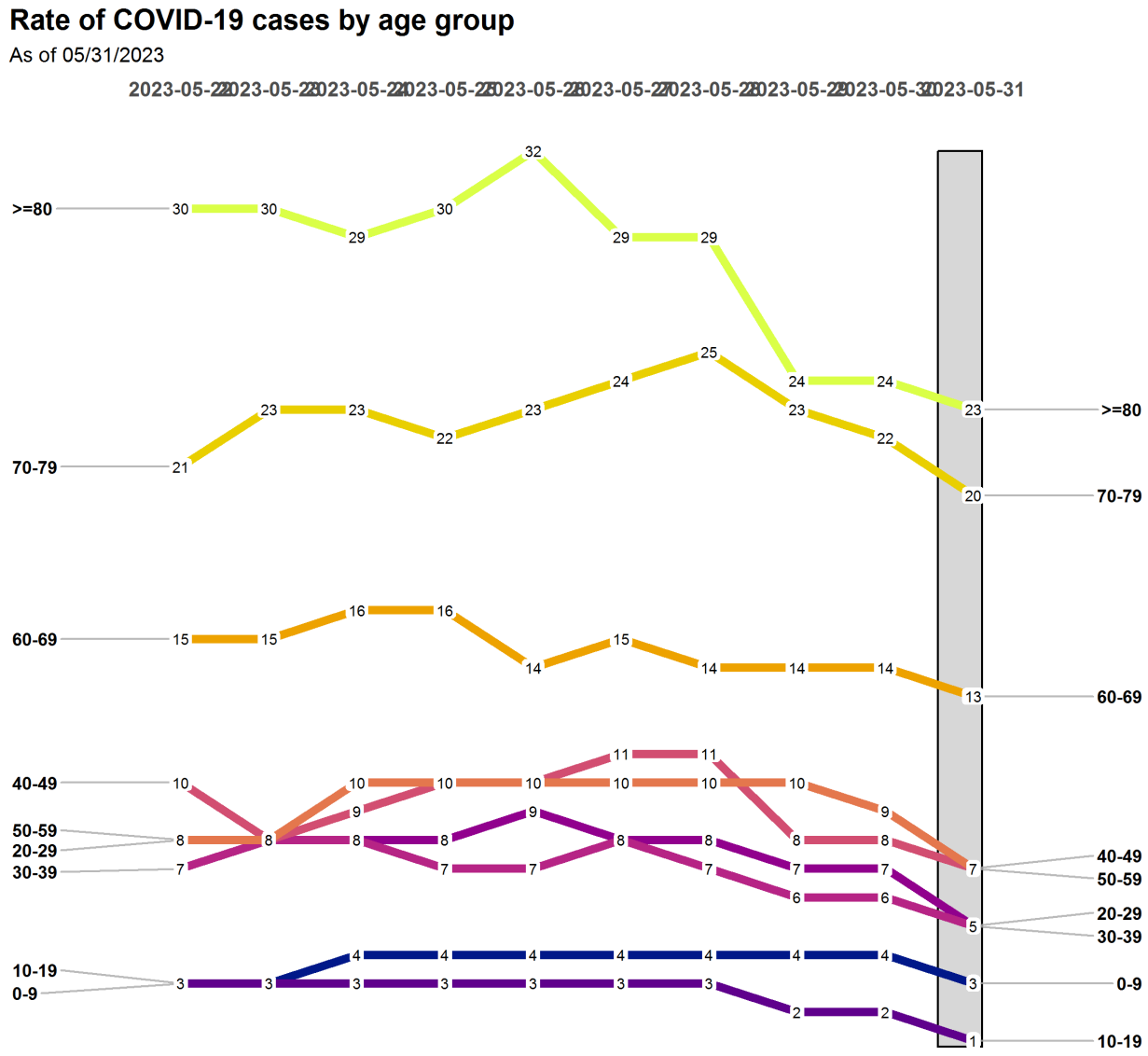


Age Distribution of COVID-19 Cases with Specimen Collection or Onset During May 25 - May 31, 2023



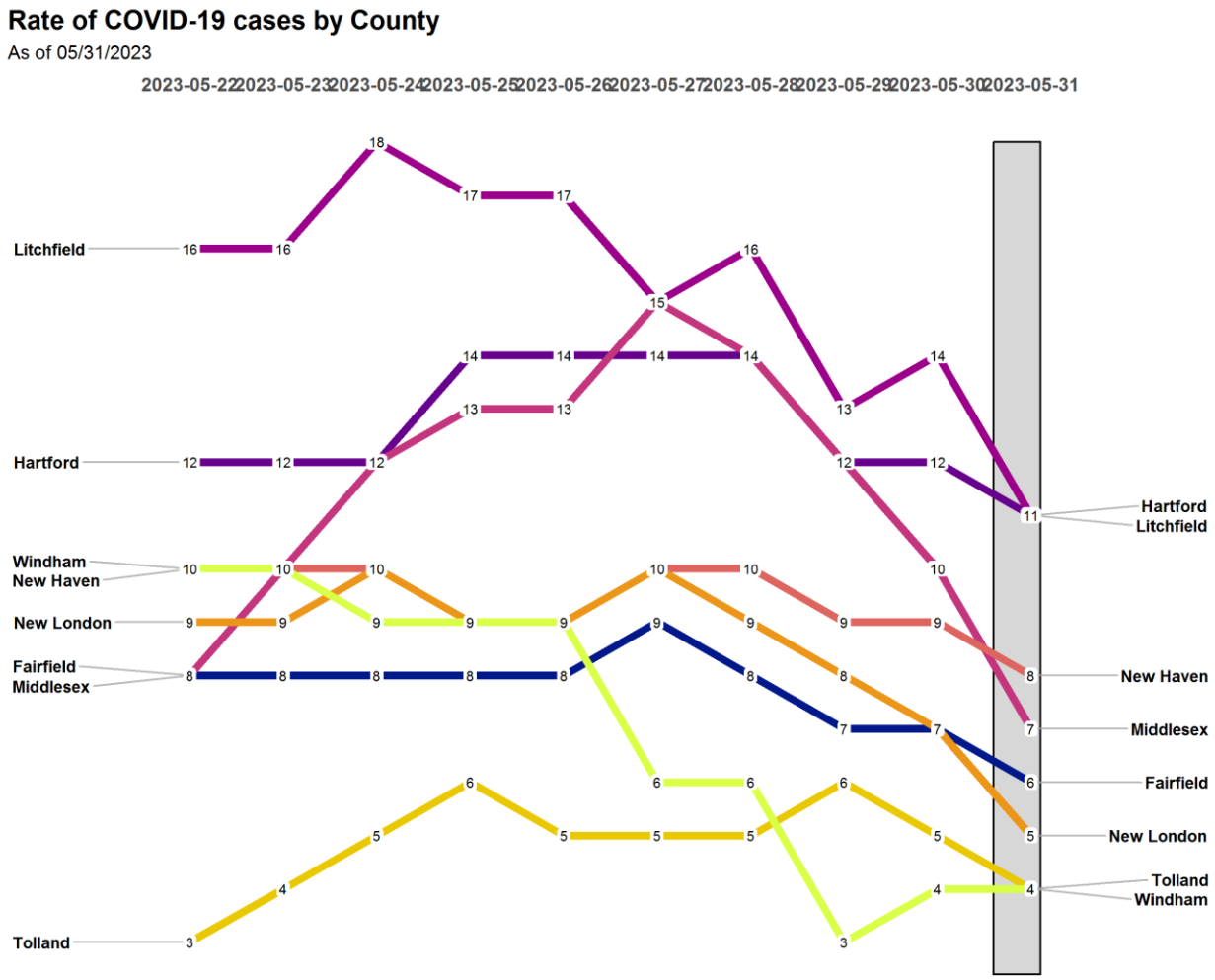
Weekly Incidence by Age Group

The chart below shows a rate of new COVID-19 cases per 100,000 population by age group based on a weekly sum of new cases. The rates in this chart are calculated by dividing the sum of the number of new cases diagnosed each day and the previous 7-days and then dividing by the annual population in each age group, and then multiplying by 100,000.



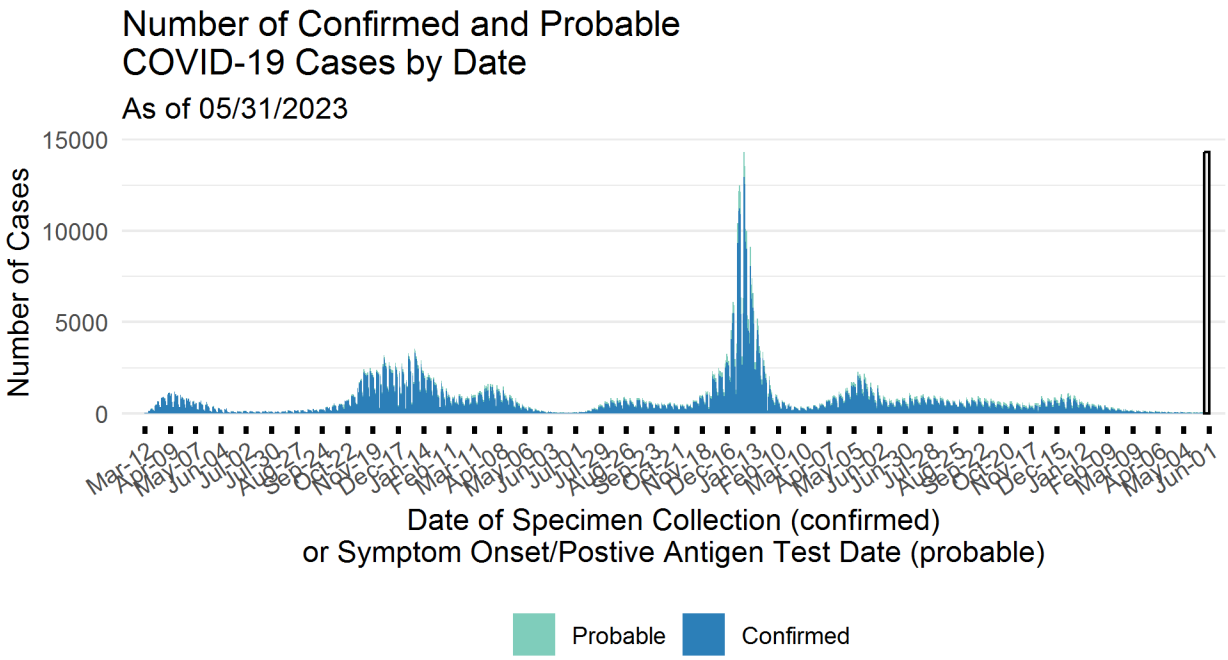
Weekly Incidence by County

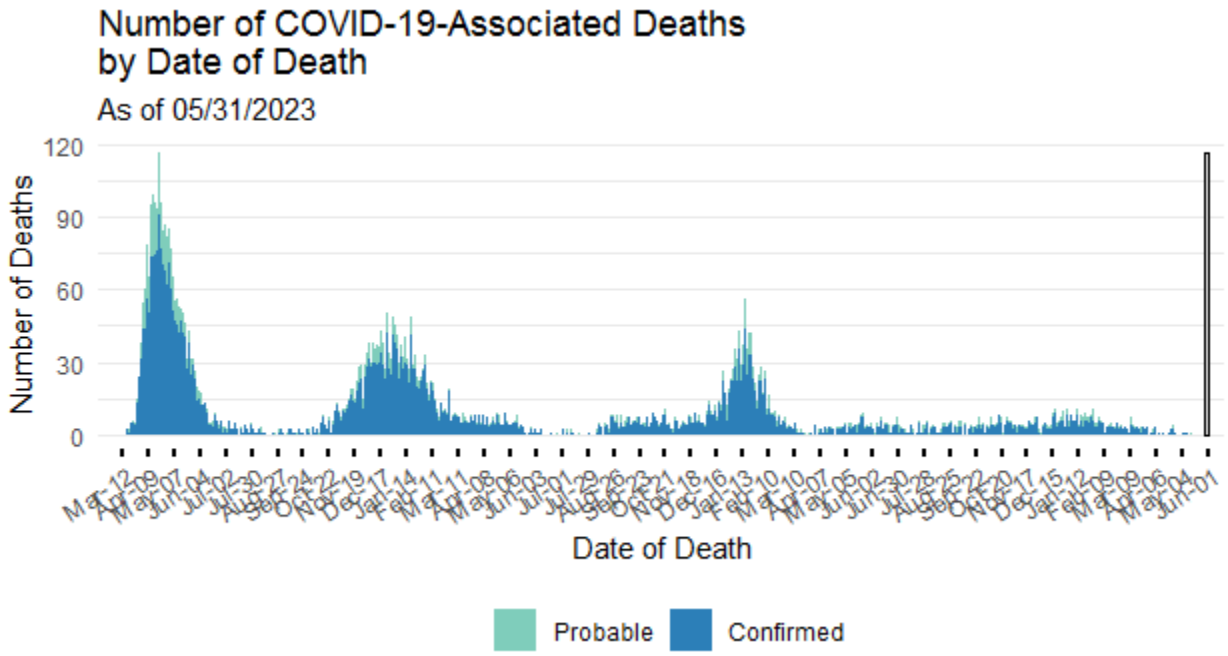
The chart below shows a rate of new COVID-19 cases per 100,000 population by county based on a weekly sum of new cases. The rates in this chart are calculated by dividing the sum of the number of new cases diagnosed each day and the previous 7-days and then dividing by the annual population in each county, and then multiplying by 100,000.



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.



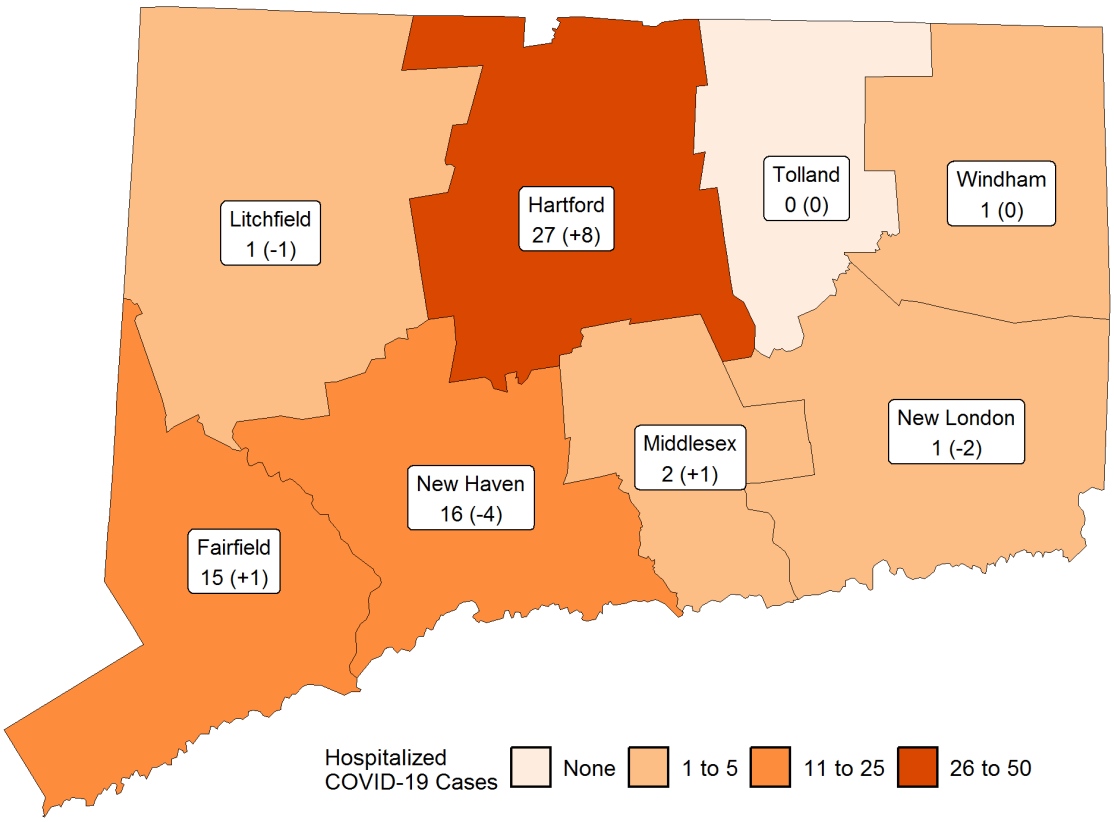


Hospitalization Surveillance

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 from 7 days ago in parentheses.

Patients Currently Hospitalized by Connecticut County

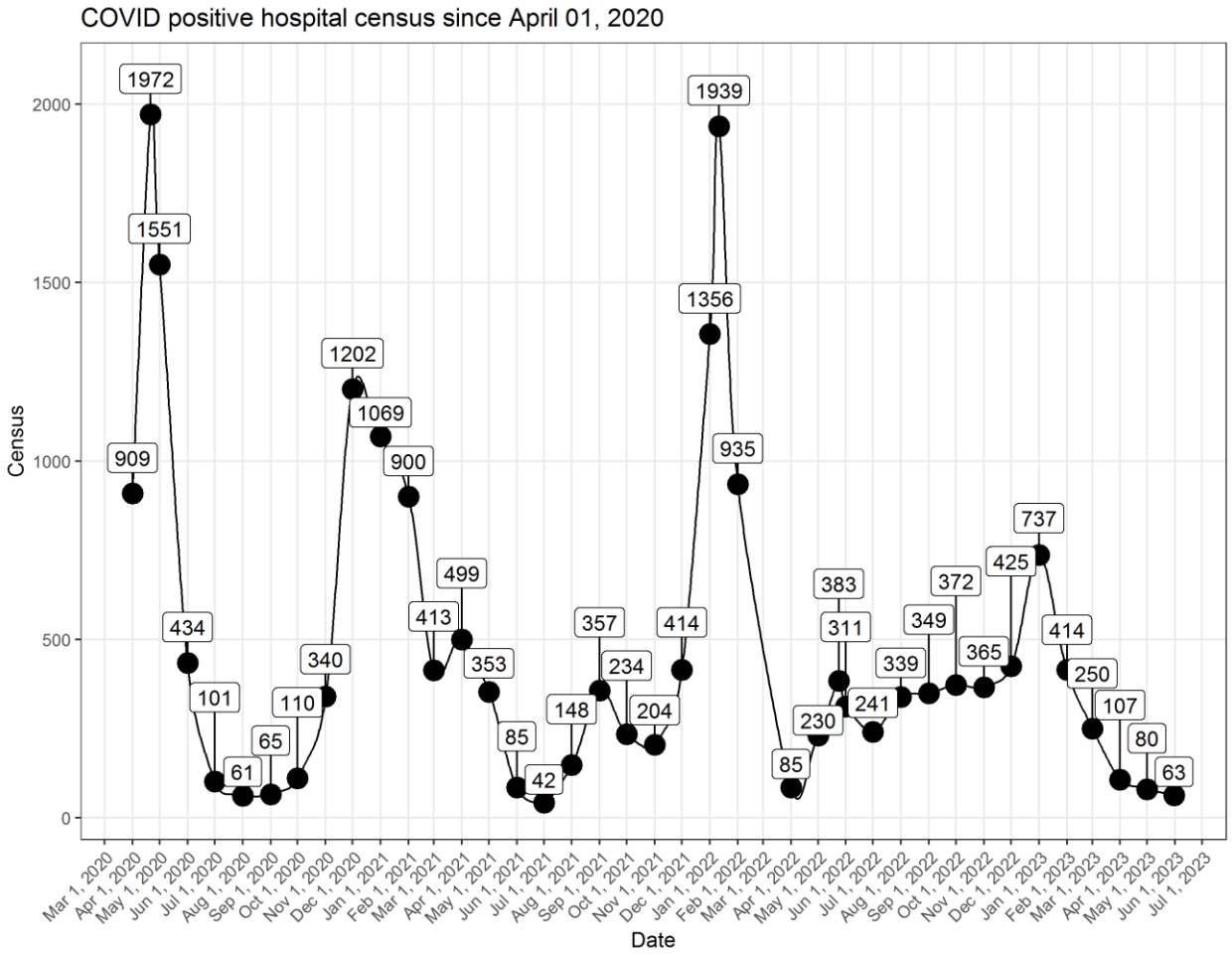
Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.



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 April 1, 2020.

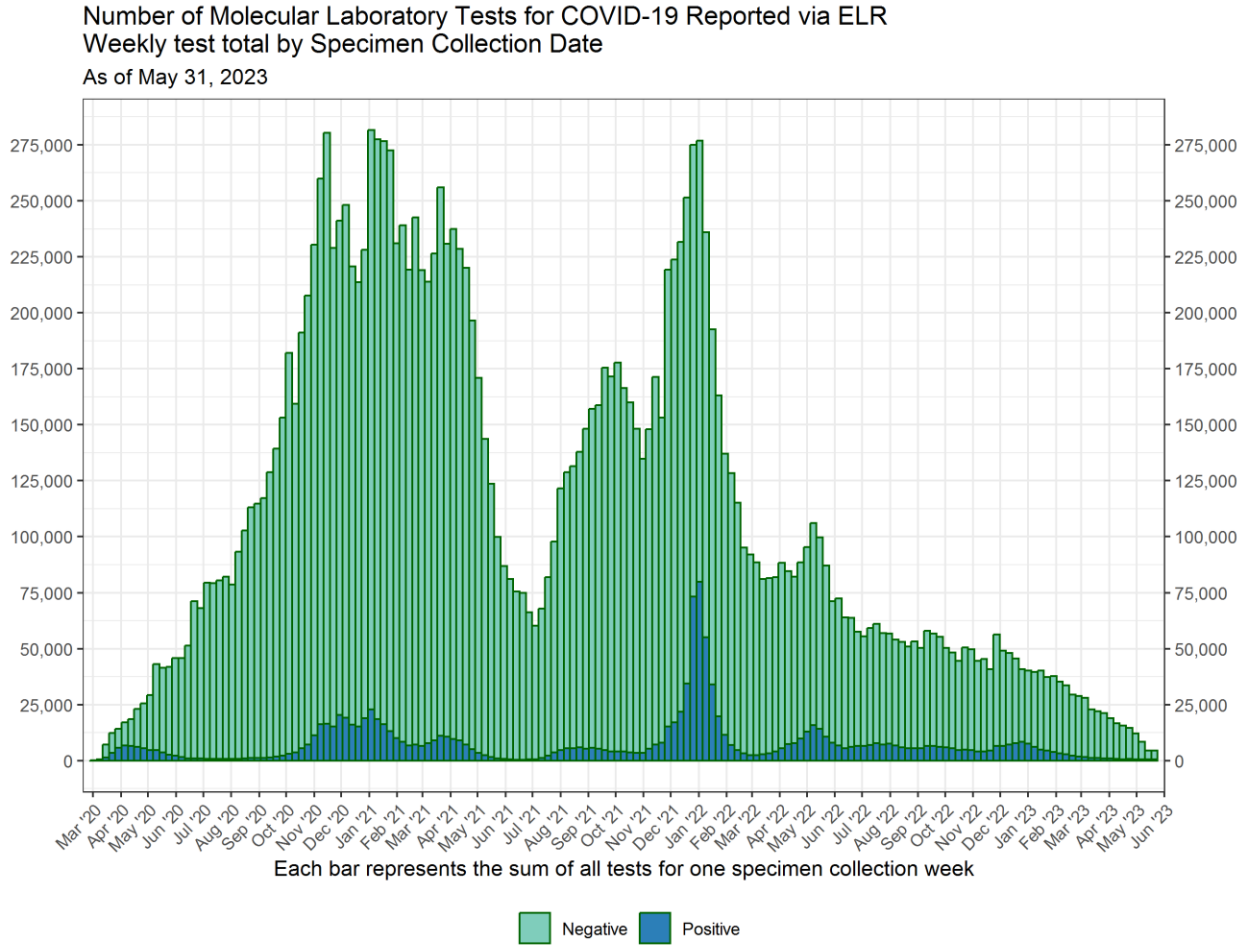


Laboratory Surveillance

Molecular Tests

To date, DPH has received reports on a total of 16,505,045 molecular COVID-19 laboratory tests; of these 16,373,514 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.

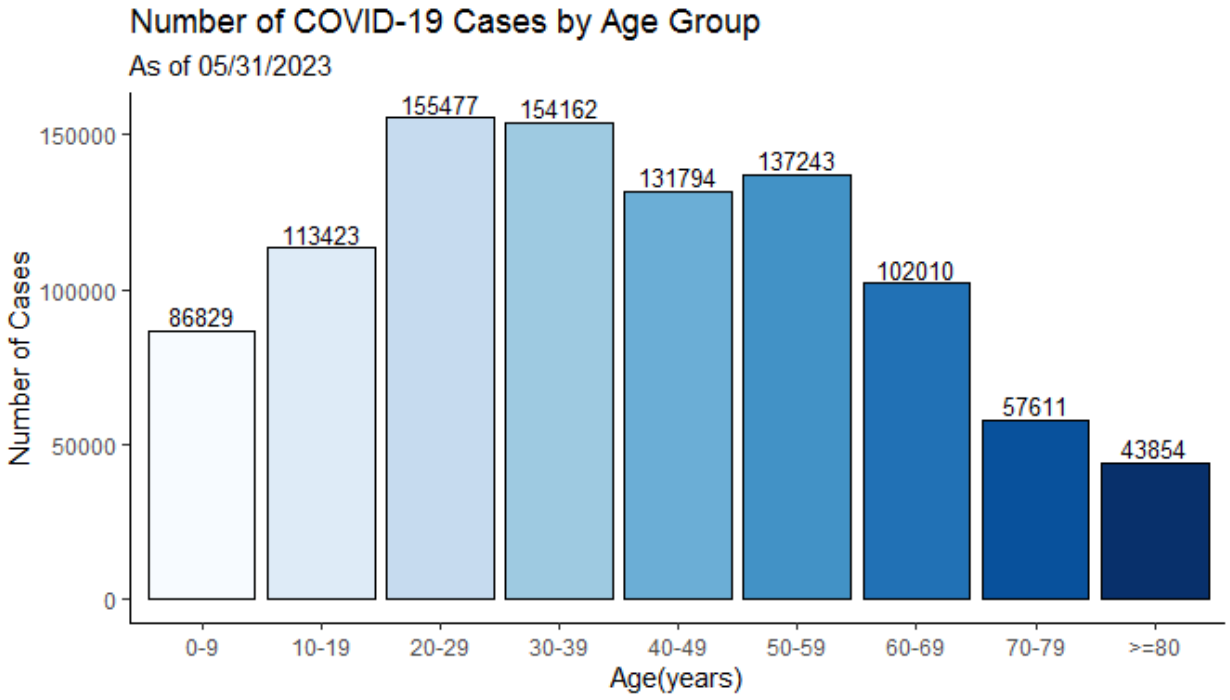


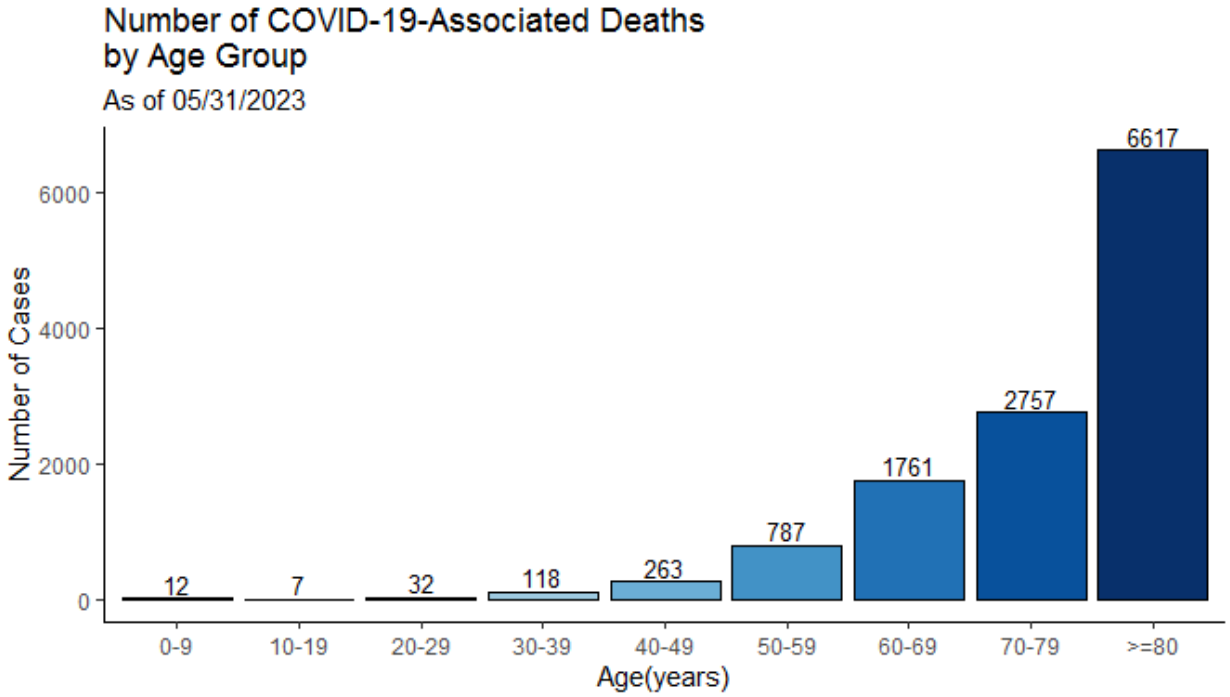
Testing of recently collected specimens is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.

ELR = Electronic Laboratory Reporting

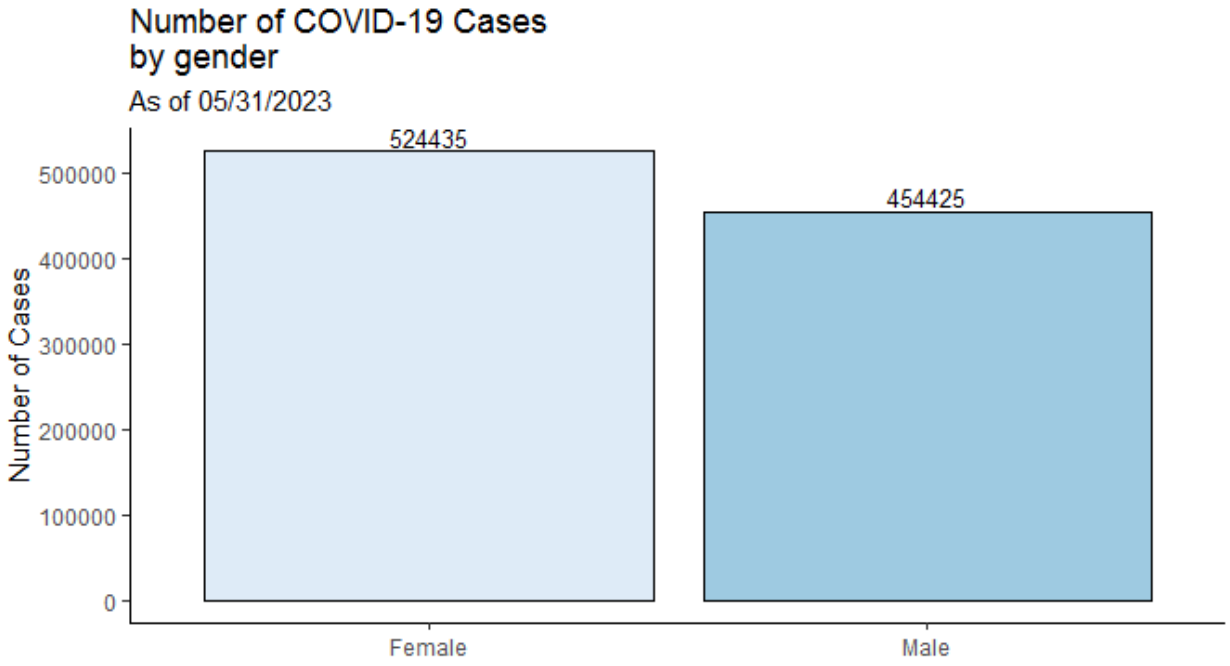
Characteristics of COVID-19 Cases and Associated Deaths

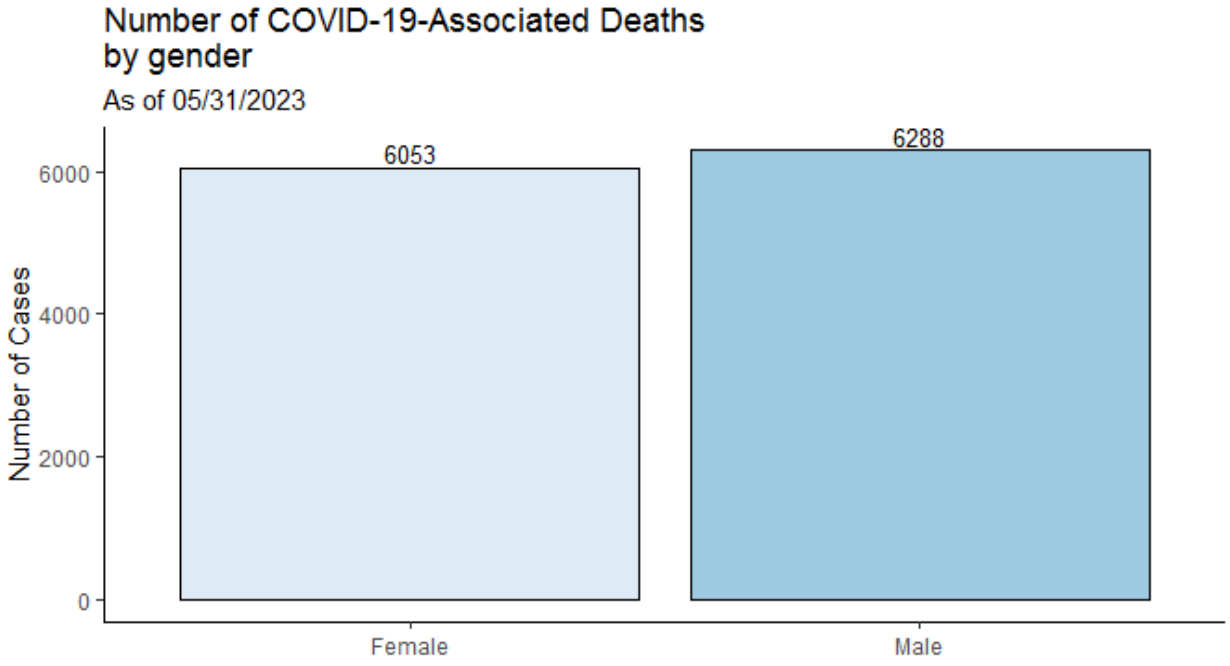
Counts may not add up to total case count because demographic data may be missing.





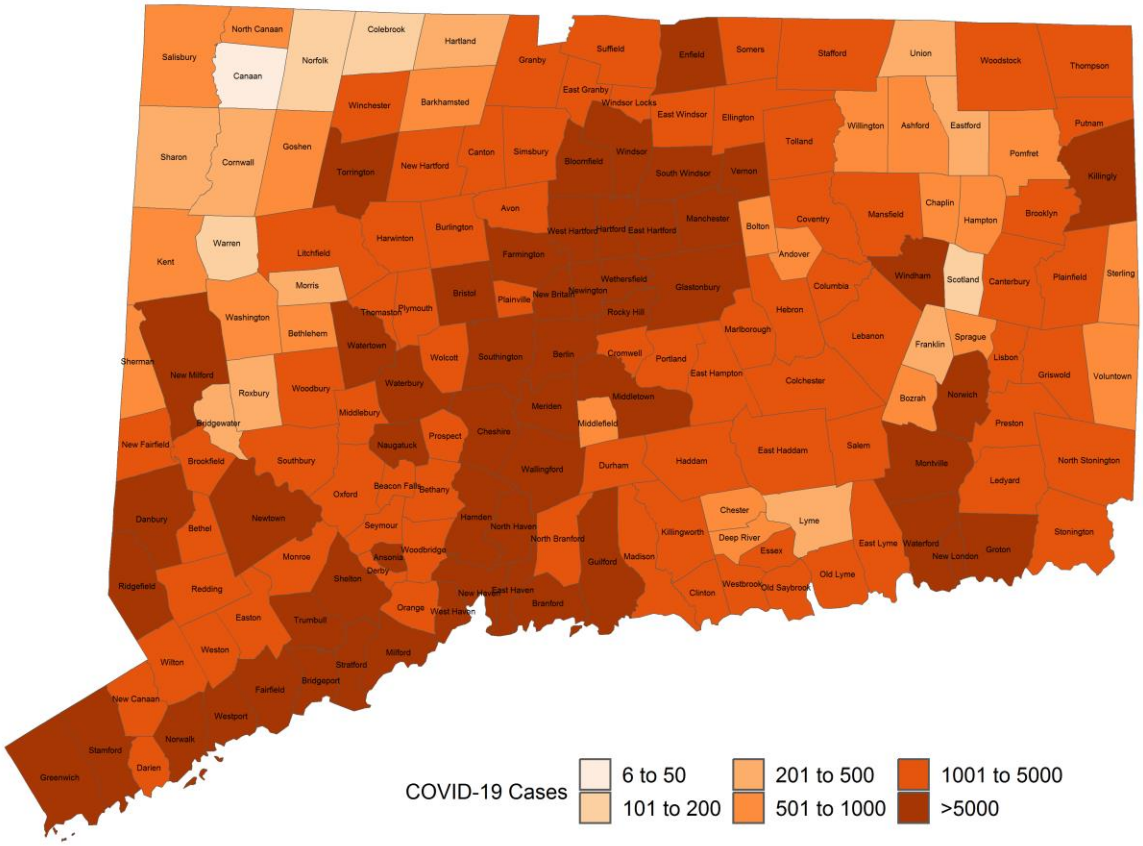
Counts may not add up to total case count because demographic data may be missing.



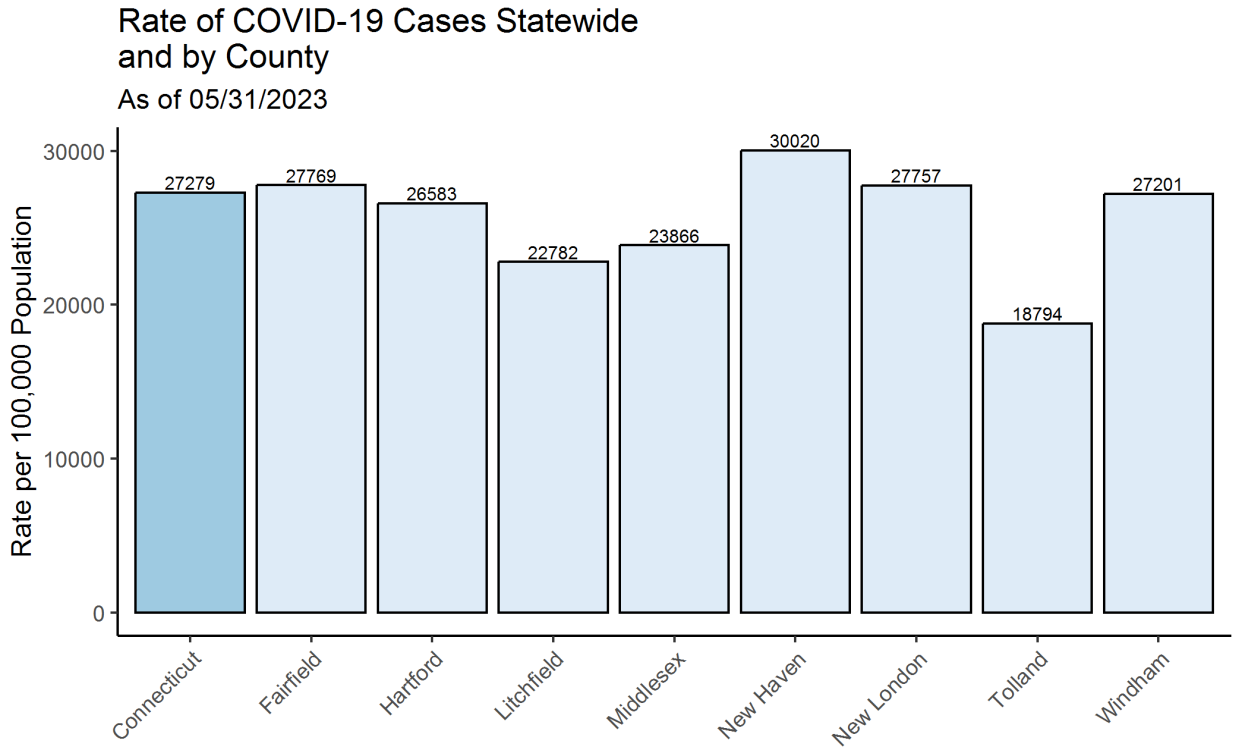


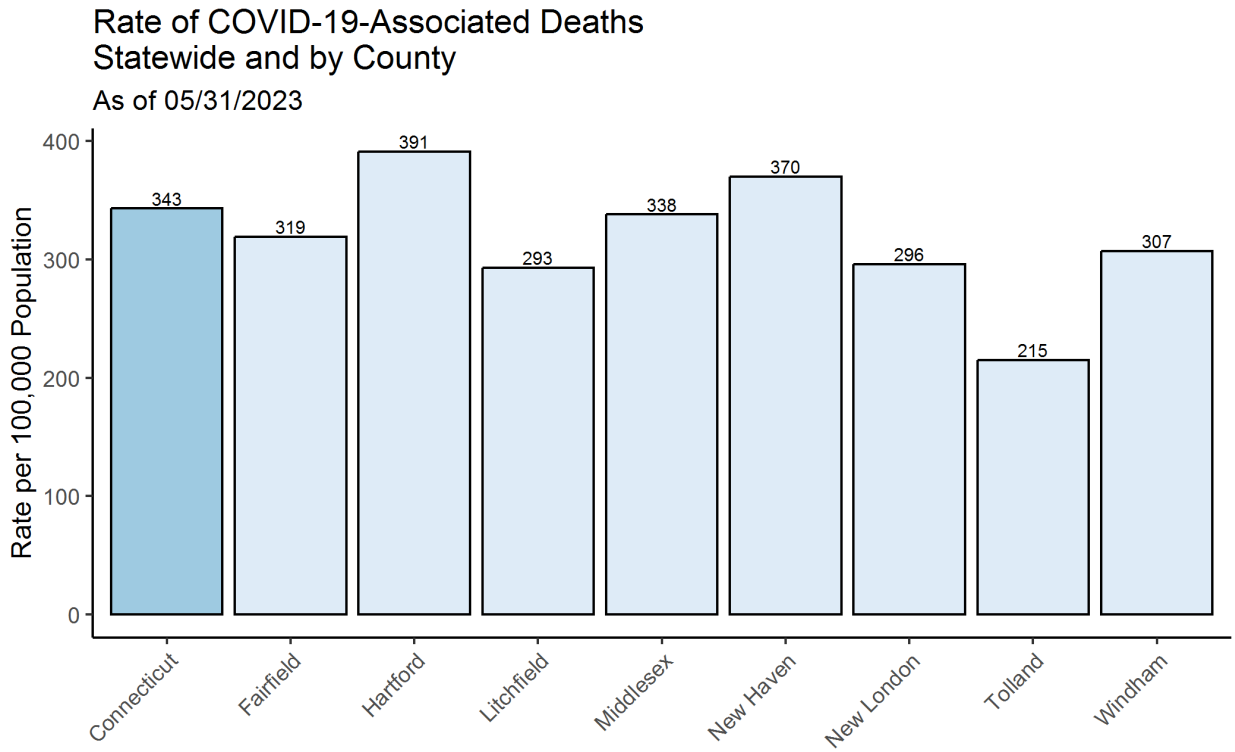
Cumulative Number of COVID-19 Cases by Town

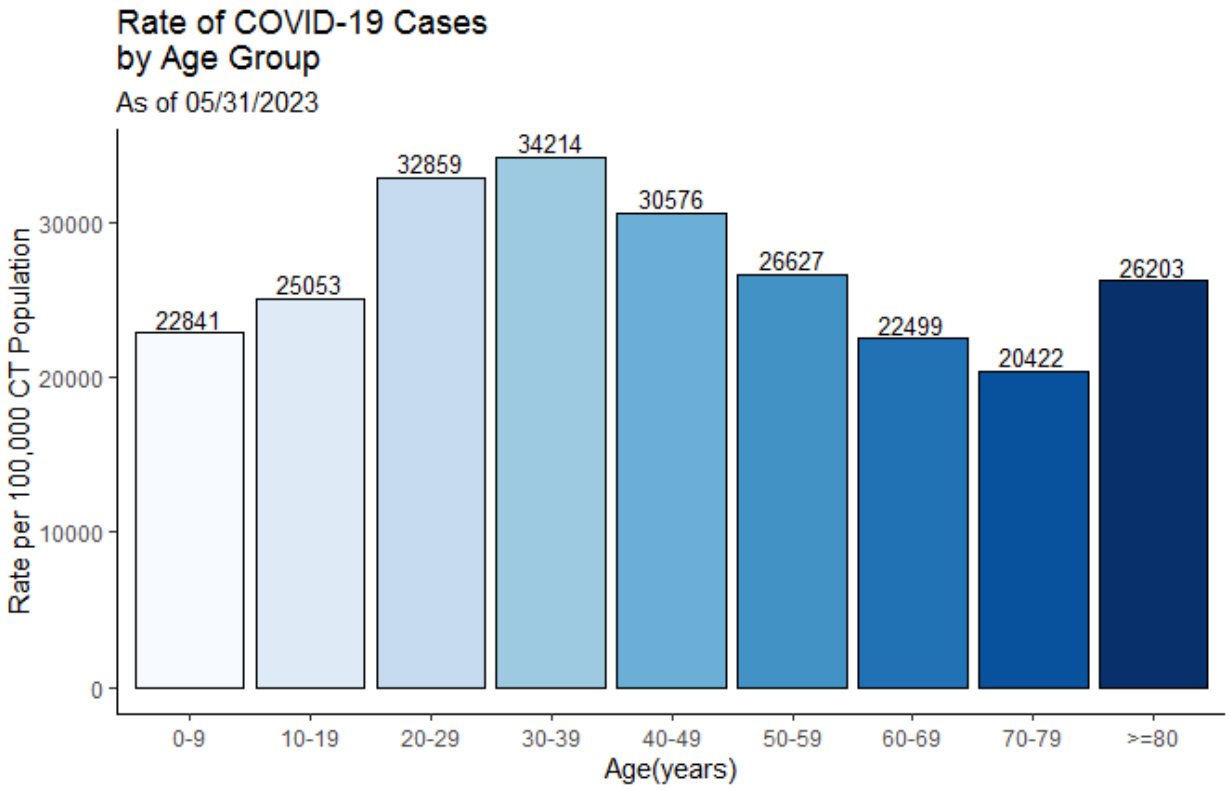
Map does not include 3295 cases pending address validation

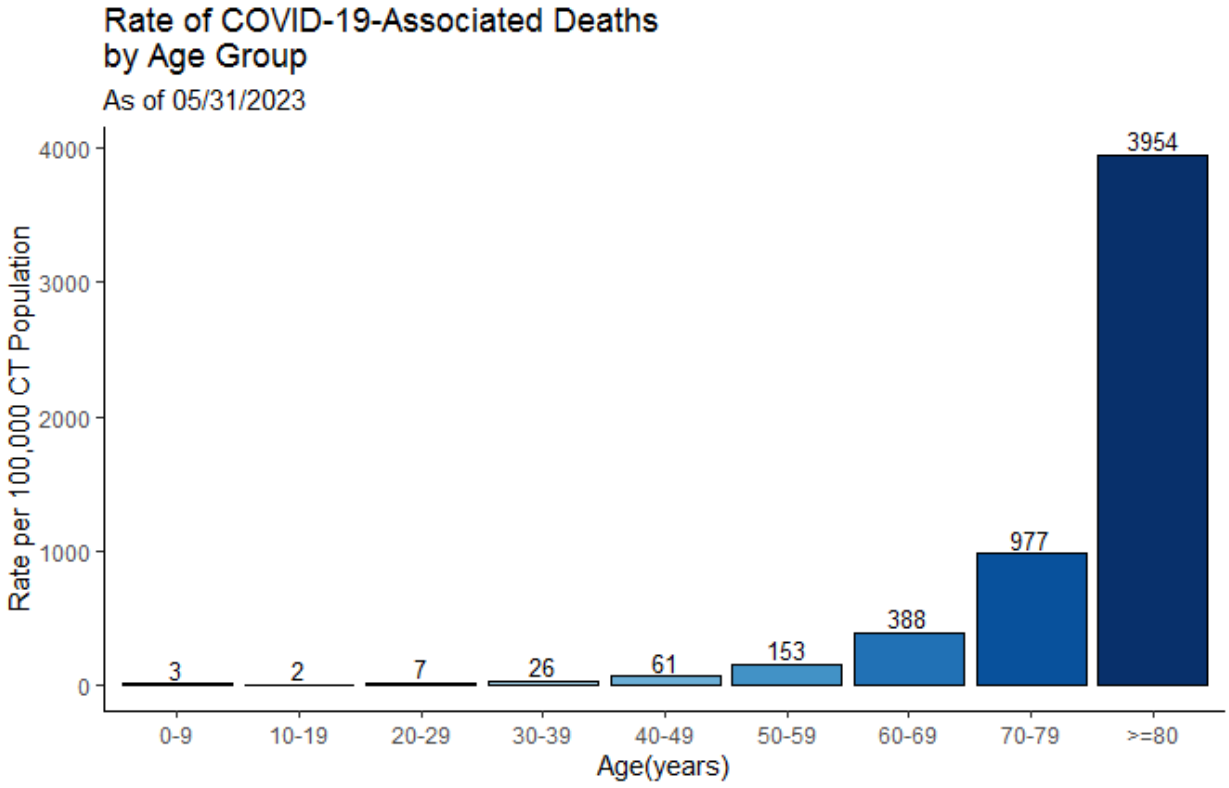


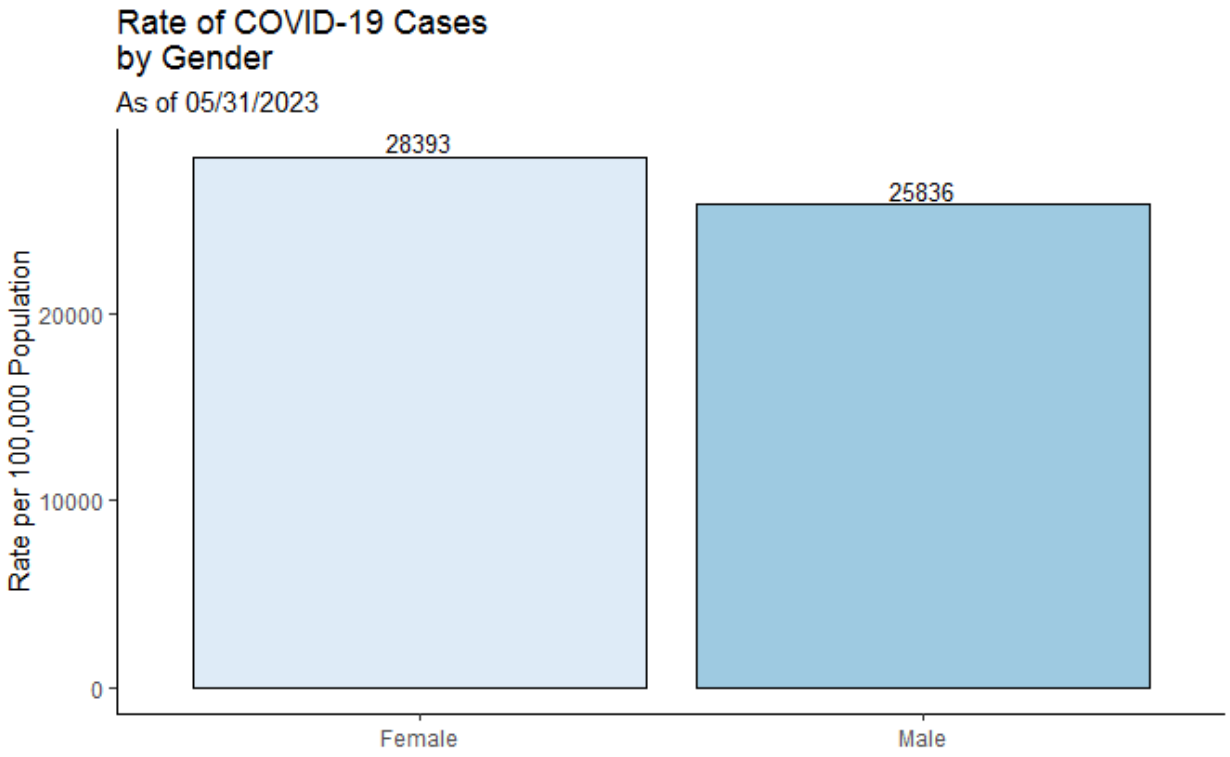
APPENDIX A. The following graphs show the number of cases per 100,000 Connecticut residents statewide and by county, age group, and gender. Population estimate from: DPH Population Statistics

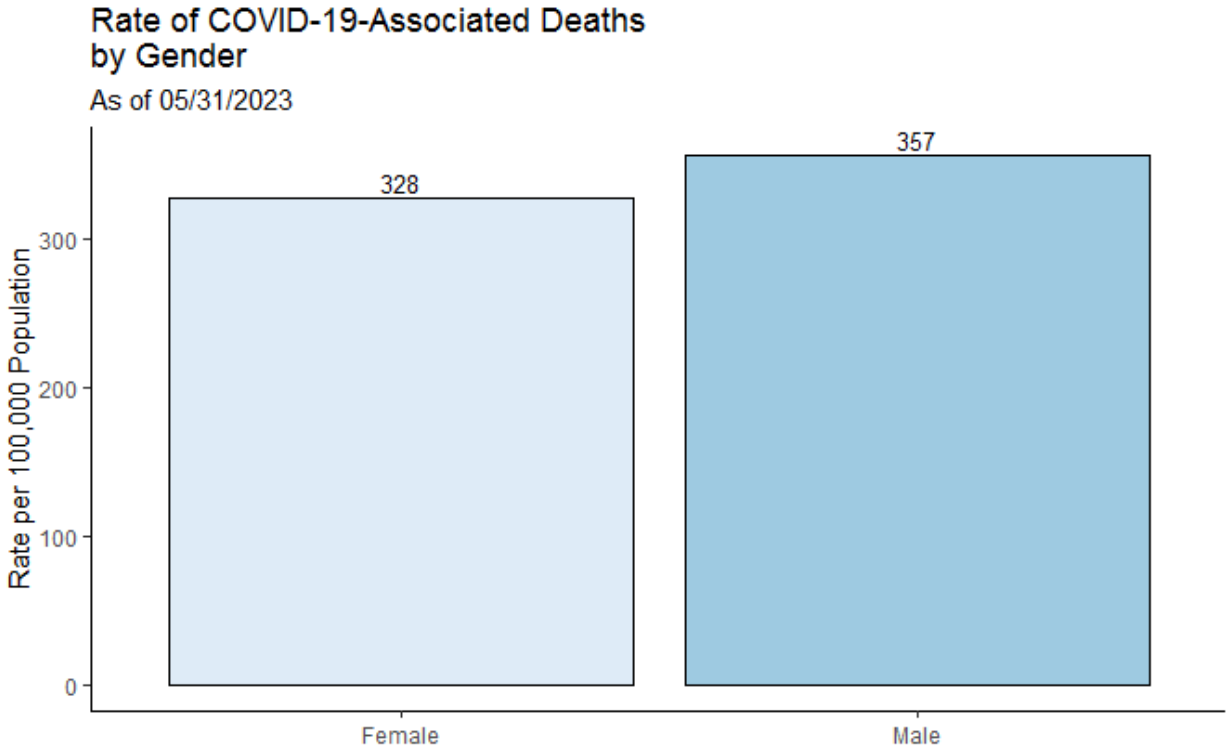




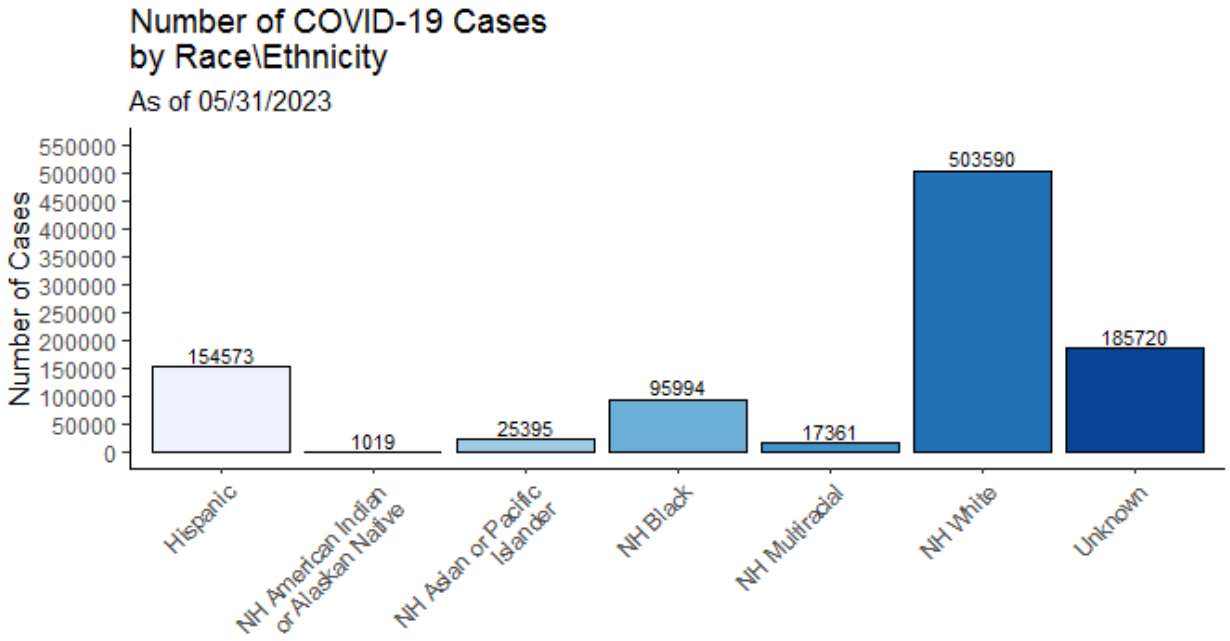

Rate of COVID-19 Cases
by Age Group
As of 05/31/2023
Rate per 100,000 CT Population
0
10000
20000
30000
22841
25053
32859
34214
30576
26627
22499
20422
26203
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age(years)

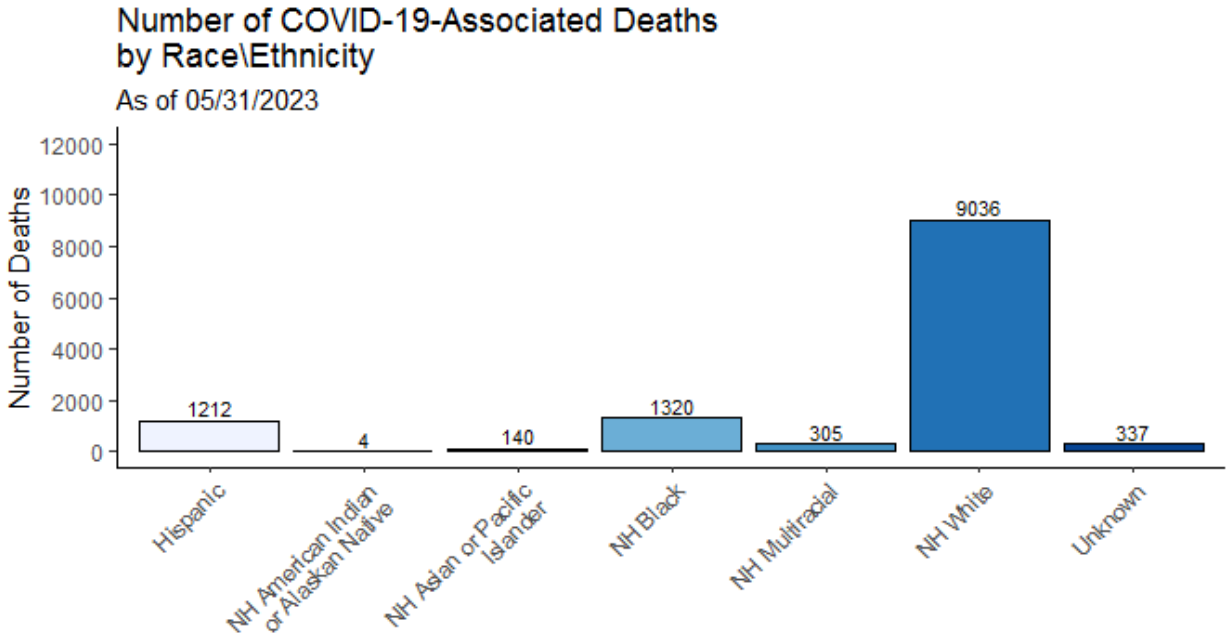

Rate of COVID-19-Associated Deaths
by Age Group
As of 05/31/2023
Rate per 100,000 CT Population
0
1000
2000
3000
4000
3
2
7
26
61
153
388
977
3954
0-9
10-19
20-29
30-39
40-49
50-59
60-69
70-79
>=80
Age(years)


Rate of COVID-19 Cases
by Gender
As of 05/31/2023
28393
25836
Rate per 100,000 Population
20000
10000
0
Female
Male


Rate of COVID-19-Associated Deaths
by Gender
As of 05/31/2023
328
357
Rate per 100,000 Population
300
200
100
0
Female
Male

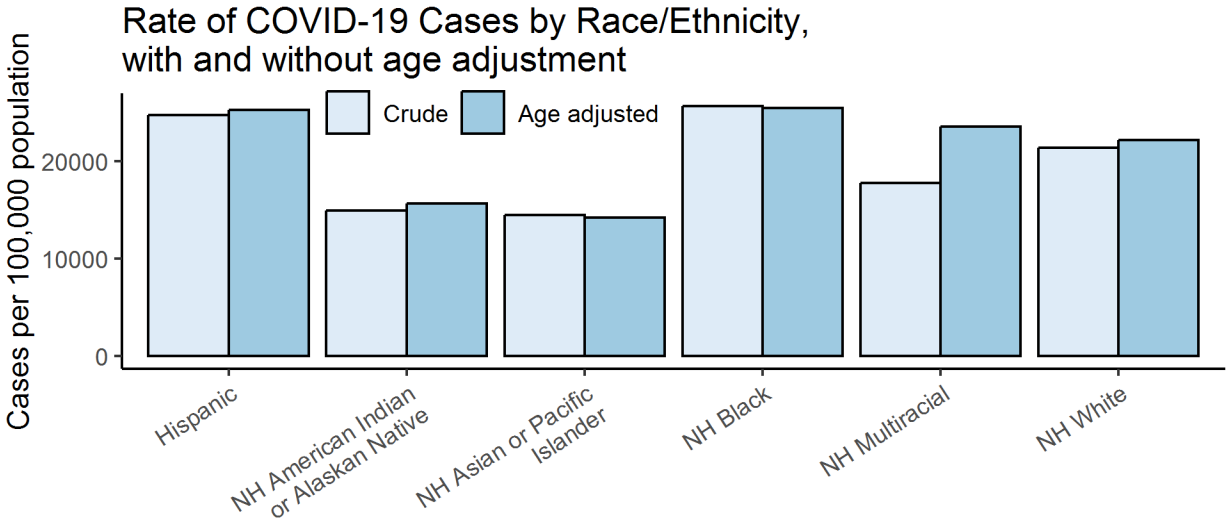
APPENDIX B. The following graphs show the number of cases and deaths by race and ethnicity. *Categories are mutually exclusive. The category "multiracial" includes people who answered 'yes' to more than one race category. NH=Non-Hispanic*

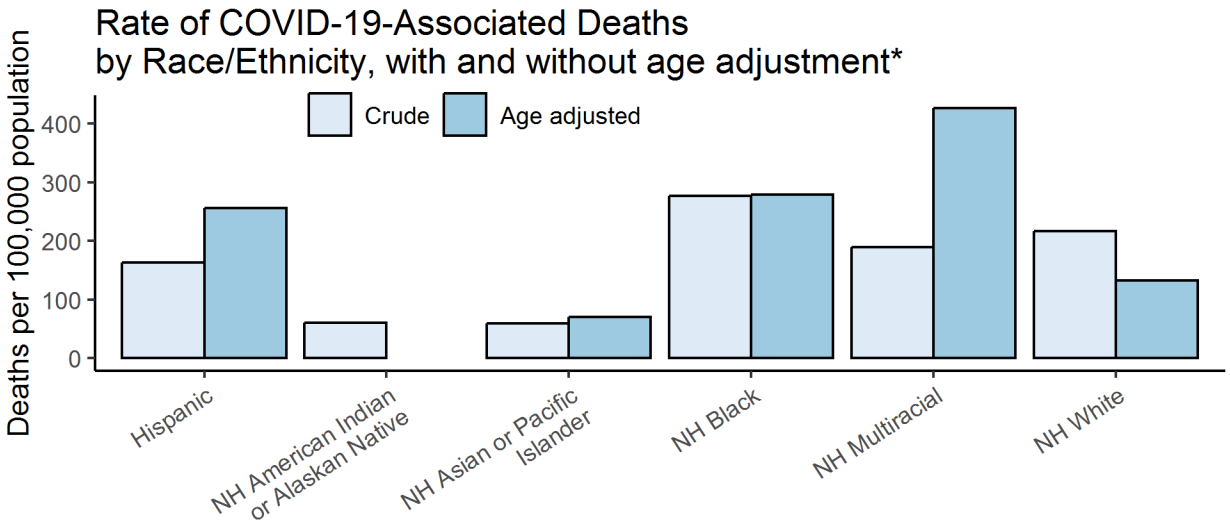




The following graphs show the number of COVID-19 cases and COVID-19-associated deaths per 100,000 population by race and ethnicity. Crude rates represent the total cases or deaths per 100,000 people. Age-adjusted rates consider the age of the person at diagnosis or death when estimating the rate and 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.

The 2020 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*