COVID-19 Update July 23, 2020

As of **July 22, 2020, at 8:30 PM**, the total of laboratory-confirmed and probable COVID-19 cases reported among Connecticut residents is **48232**, including **46213** laboratory-confirmed and **2019** probable cases. **Seventy-two** patients are currently hospitalized with laboratory-confirmed COVID-19. There have been **4410** COVID-19-associated deaths.

> In Connecticut during the early months of this pandemic, it became clear that it would be necessary to track probable COVID-19 cases and deaths, in addition to laboratory-confirmed (RT-PCR) cases and deaths. This was needed to better measure the burden and impact of this disease in our communities and is now part of the national surveillance case definition for COVID-19. Probable cases of COVID-19 involve persons who have not had confirmatory laboratory testing (RT-PCR) performed for COVID-19, but whose symptoms indicate they are likely to have a COVID-19 infection. In Connecticut, most of the probable COVID-19 cases involve persons whose death certificates list COVID-19 disease or SARS-CoV-2 as a cause of death or a significant condition contributing to death. Prior to June 1, probable and confirmed cases were reported together.

Overall Summary	Total**	Change Since Yesterday
COVID-19 Cases	48232	+83*
COVID-19-Associated Deaths	4410	+4
Patients Currently Hospitalized with COVID-19	72	+9
COVID-19 PCR Tests Reported	685869	+13483

Please note 83 new cases were reported to DPH since yesterday. In addition, 74 previously reported cases were removed due to updated laboratory findings of false positive results.
**Includes confirmed plus probable cases*

COVID-19 Cases and Associated Deaths by County of Residence
As of 07/22/20 8:30pm.

County	COVID-19 Cases		COVID-19-Associated Deaths	
	Confirmed	Probable	Confirmed	Probable
Fairfield County	16529	655	1089	312
Hartford County	11455	690	1090	318
Litchfield County	1462	68	117	21
Middlesex County	1300	60	150	38
New Haven County	12433	402	943	150
New London County	1290	62	76	26
Tolland County	871	66	51	14
Windham County	648	7	14	1
Pending address validation	225	9	0	0
Total	**46213**	**2019**	**3530**	**880**

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.

All data are preliminary and subject to change. Updated 7/23/2020.
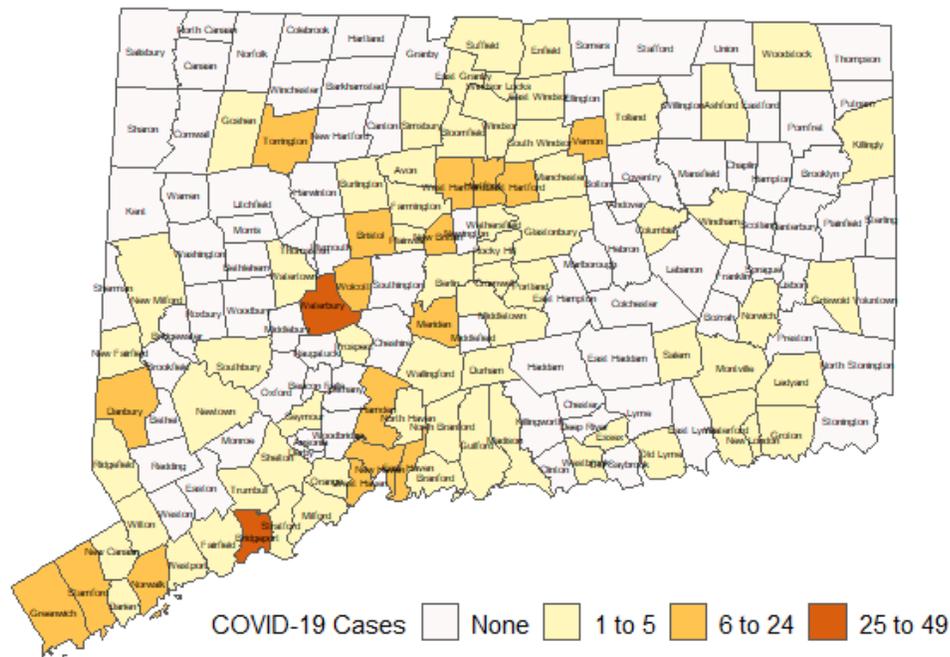
COVID-19 Cases and Deaths Over Time

New Cases during July 12-18th, 2020

Among 59,665 PCR tests for COVID-19 with specimen collection date during July 12–18th, 561 test results were positive. There were 425 people who tested positive for the first time or had onset of symptoms during July 12-18th. Of these 425 people, 399 (94%) cases were among people who reside in community settings and 26 (6%) were among people who reside in congregate settings, including nursing homes, assisted living facilities, or correctional facilities.

The maps below show the distribution of the 399 cases among people living in community settings. The first map shows the number of cases and darker colors indicate towns with more cases.

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 second map below shows the number of new cases per 100,000 population, with darker colors indicating higher rates.

Map does not include 16 cases pending address validation

All data are preliminary and subject to change. Updated 7/23/2020.

Rate of COVID-19 Cases among Persons Living in Community Settings per 100,000 Population by Town with Specimen Collection or Onset Date During July 12-18

Map does not include 16 cases pending address validation

All data are preliminary and subject to change. Updated 7/23/2020.
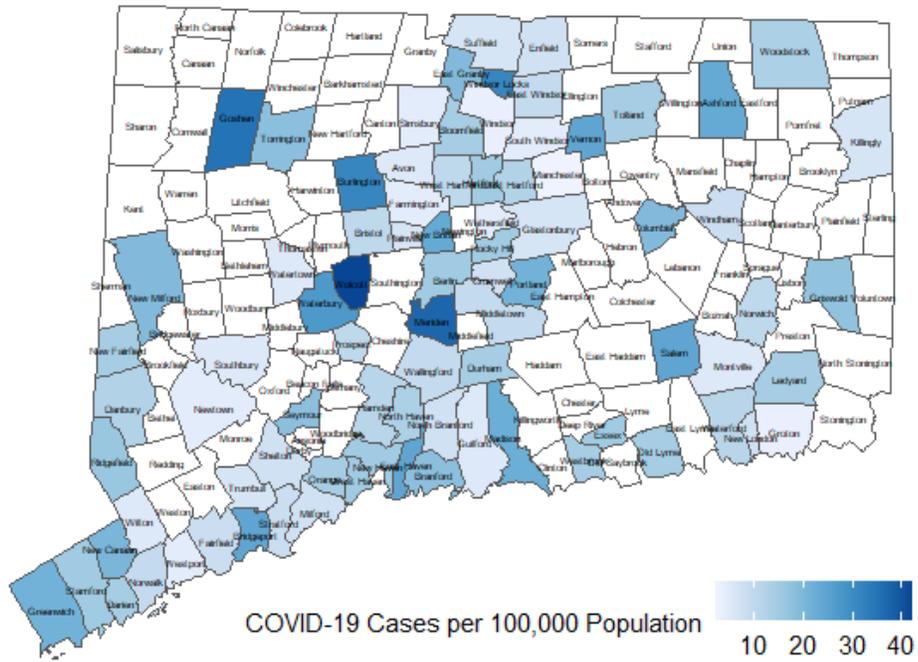
Population, Number and Rate of COVID-19 Cases among Persons Living in Community Settings by Town with Specimen Collection or Onset Date during July 12-18th, 2020

*Table does not include 16 cases pending address validation. Rate is cases per 100,000 population.*

Town	Pop	Cases	Rate	Town	Pop	Cases	Rate	Town	Pop	Cases	Rate
Andover	3231	0	0	Groton	38692	<5	3	Prospect	9790	<5	10
Ansonia	18721	0	0	Guilford	22216	<5	5	Putnam	9395	0	0
Ashford	4261	<5	23	Haddam	8222	0	0	Redding	9125	0	0
Avon	18302	<5	5	Hamden	60940	7	11	Ridgefield	25008	<5	16
Barkhamsted	3624	0	0	Hampton	1853	0	0	Rocky Hill	20145	<5	15
Beacon Falls	6182	0	0	Hartford	122587	18	15	Roxbury	2160	0	0
Berlin	20432	<5	15	Hartland	2120	0	0	Salem	4123	<5	24
Bethany	5479	0	0	Harwinton	5430	0	0	Salisbury	3598	0	0
Bethel	19714	0	0	Hebron	9482	0	0	Scotland	1685	0	0
Bethlehem	3422	0	0	Kent	2785	0	0	Seymour	16509	<5	18
Bloomfield	21301	<5	14	Killingly	17287	<5	6	Sharon	2703	0	0
Bolton	4890	0	0	Killingworth	6370	0	0	Shelton	41097	<5	7
Bozrah	2537	0	0	Lebanon	7207	0	0	Sherman	3614	0	0
Branford	28005	5	18	Ledyard	14736	<5	14	Simsbury	24979	<5	4
Bridgeport	144900	35	24	Lisbon	4248	0	0	Somers	10834	0	0
Bridgewater	1641	0	0	Litchfield	8127	0	0	South			
Bristol	60032	6	10	Lyme	2338	0	0	Windsor	26054	<5	4
Brookfield	17002	0	0	Madison	18106	<5	22	Southbury	19656	<5	5
Brooklyn	8280	0	0	Manchester	57699	<5	2	Southington	43807	0	0
Burlington	9665	<5	31	Mansfield	25817	0	0	Sprague	2889	0	0
Canaan	1055	0	0	Marlborough	6358	0	0	Stafford	11884	0	0
Canterbury	5100	0	0	Meriden	59540	22	37	Stamford	129775	19	15
Canton	10270	0	0	Middlebury	7731	0	0	Sterling	3780	0	0
Chaplin	2256	0	0	Middlefield	4380	0	0	Stonington	18449	0	0
Cheshire	29179	0	0	Middletown	46146	<5	9	Stratford	51967	<5	8
Chester	4229	0	0	Milford	54661	<5	7	Suffield	15743	<5	6
Clinton	12950	0	0	Monroe	19470	0	0	Thomaston	7560	0	0
Colchester	15936	0	0	Montville	18716	<5	5	Thompson	9395	0	0
Colebrook	1405	0	0	Morris	2262	0	0	Tolland	14655	<5	14
Columbia	5385	<5	19	Naugatuck	31288	0	0	Torrington	34228	6	18
Cornwall	1368	0	0	New Britain	72453	17	23	Trumbull	35802	<5	6
Coventry	12414	0	0	New Canaan	20213	<5	20	Union	840	0	0
Cromwell	13905	<5	7	New Fairfield	13877	<5	14	Vernon	29303	7	24
Danbury	84730	10	12	New Hartford	6685	0	0	Voluntown	2535	0	0
Darien	21753	<5	14	New Haven	130418	20	15	Wallingford	44535	<5	9
Deep River	4463	0	0	New London	26939	<5	7	Warren	1399	0	0
Derby	12515	0	0	New Milford	26974	5	19	Washington	3434	0	0
Durham	7195	<5	14	Newington	30112	0	0	Waterbury	108093	29	27
East Granby	5147	<5	19	Newtown	27774	<5	4	Waterford	18887	<5	11
East Haddam	8988	0	0	Norfolk	1640	0	0	Watertown	21641	<5	5
East Hampton	12854	0	0	North				West Hartford	62939	6	10
East Hartford	49998	6	12	Branford	14158	<5	7	West Haven	54879	8	15
East Haven	28699	7	24	North Canaan	3254	0	0	Westbrook	6914	<5	14
East Lyme	18645	0	0	North Haven	23691	<5	13	Weston	10247	0	0
East Windsor	11375	<5	9	North				Westport	28115	<5	4
Eastford	1790	0	0	Stonington	5243	0	0	Wethersfield	26082	<5	4
Easton	7517	0	0	Norwalk	89047	8	9	Willington	5887	0	0
Ellington	16299	0	0	Norwich	39136	<5	10	Wilton	18397	<5	5
Enfield	44466	<5	7	Old Lyme	7366	<5	14	Winchester	10655	0	0
Essex	6674	<5	15	Old Saybrook	10087	0	0	Windham	24706	<5	8
Fairfield	61952	5	8	Orange	13949	<5	14	Windsor	28760	<5	3
Farmington	25506	<5	4	Oxford	13226	0	0	Windsor Locks	12876	<5	31
Franklin	1933	0	0	Plainfield	15173	0	0	Wolcott	16649	7	42
Glastonbury	34491	<5	6	Plainville	17623	<5	6	Woodbridge	8805	0	0
Goshen	2879	<5	35	Plymouth	11645	0	0	Woodbury	9537	0	0
Granby	11375	0	0	Pomfret	4204	0	0	Woodstock	7862	<5	13
Greenwich	62727	13	21	Portland	9305	<5	21				
Griswold	11591	<5	17	Preston	4638	0	0				

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All data are preliminary and subject to change. Updated 7/23/2020.

COVID-19 PCR Tests during July 12–18, 2020

Among 59,665 PCR tests for COVID-19 with specimen collection date during July 12-18th, 54,570 (91%) tests were conducted among people who did not reside in congregate settings (including nursing homes, assisted living, and correctional facilities). Of these 54,570 tests, 512 (1%) were positive. The map below shows the number of PCR COVID-19 tests by town with specimen collection date during July 12-18th that were conducted among community residents.

Number of PCR Tests for COVID-19 among Persons Living in Community Settings by Town with Specimen Collection Date During July 12-18

Map does not include 2335 tests pending address validation

All data are preliminary and subject to change. Updated 7/23/2020.

Weekly Incidence by County

The chart below shows the number of new COVID-19 cases per week per 100,000 population in the state of Connecticut and for each Connecticut county. The rates in this chart are calculated by dividing the number of new cases diagnosed each week by the annual estimated population and then multiplying by 100,000. The rate calculation used here is consistent with the CDC COVID-19 Data Tracker method for calculation of cumulative COVID-19 incidence rates.
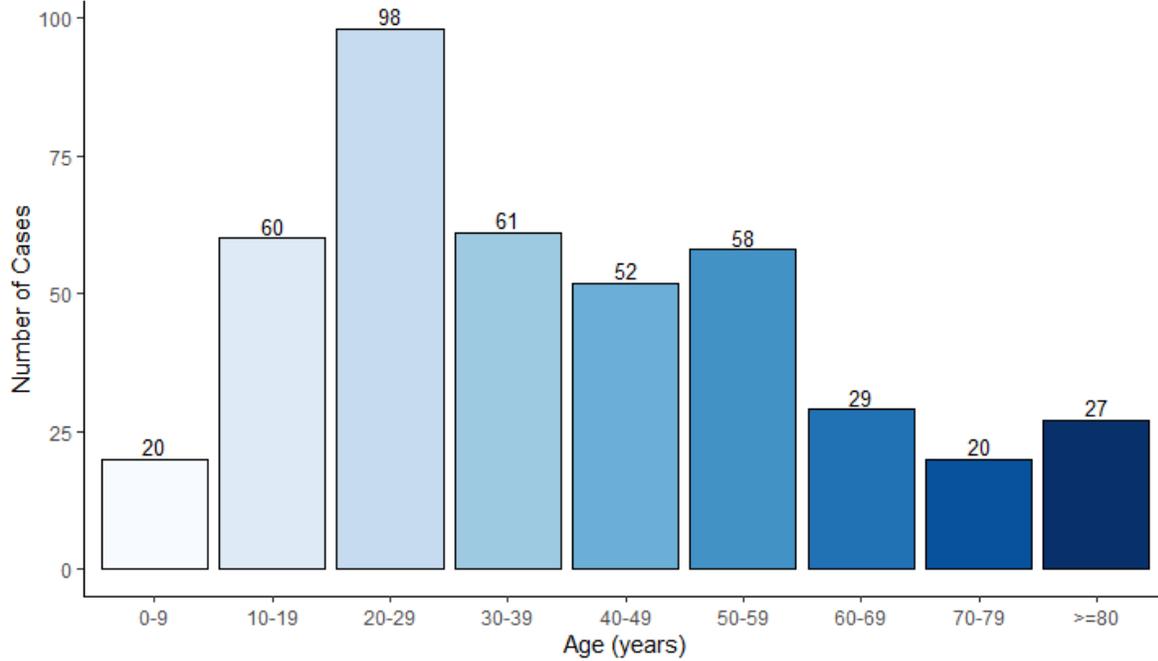

Weekly rates of COVID-19 cases by County
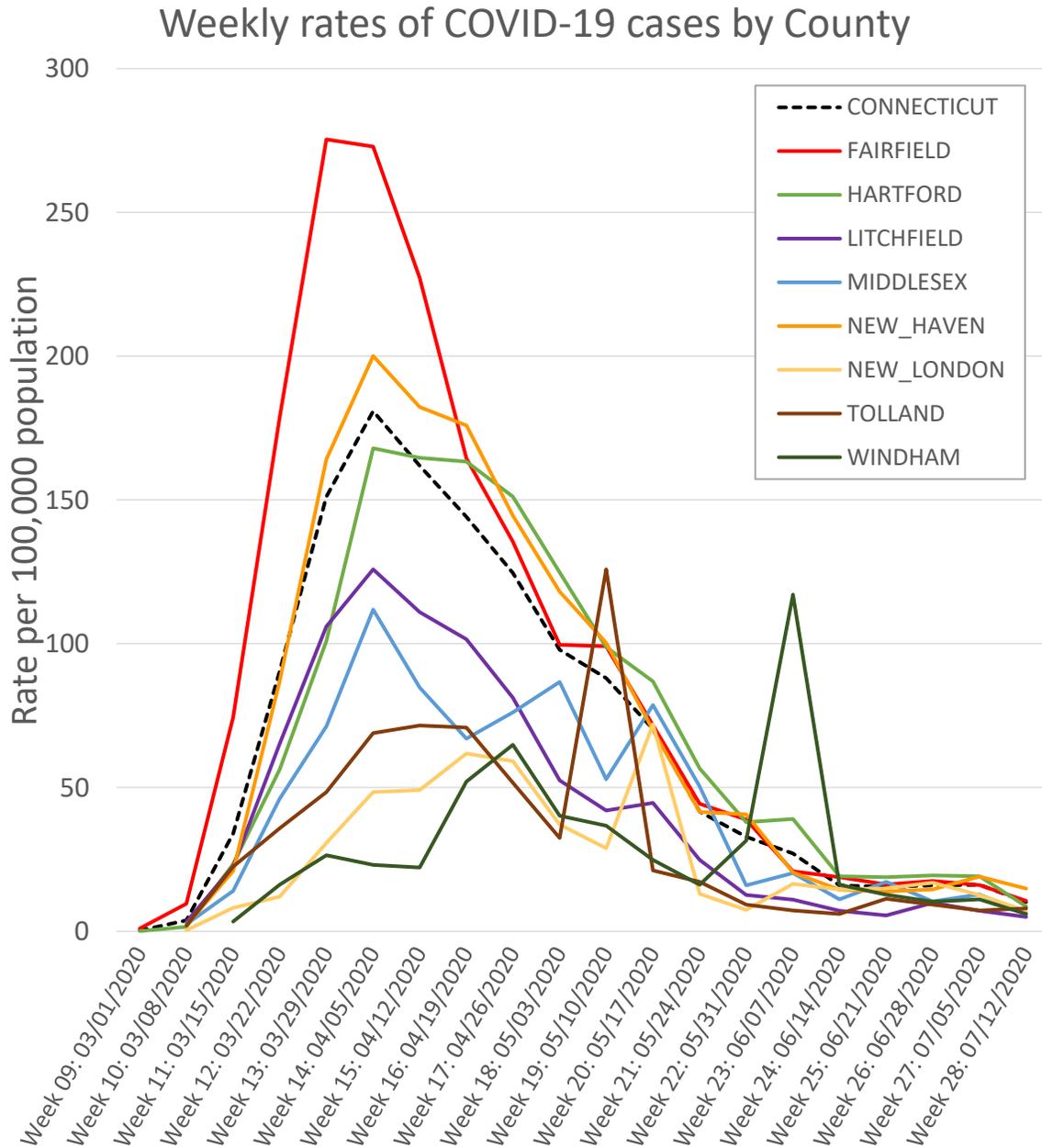
Notes:
Incidence rates are based on weekly cases divided by the estimated annual population and multiplied by 100,000.
Cases pending address validation are excluded from rate calculations.

All data are preliminary and subject to change. Updated 7/23/2020.

Age Distribution of COVID-19 Cases with Specimen Collection or Onset During July 12-18, 2020

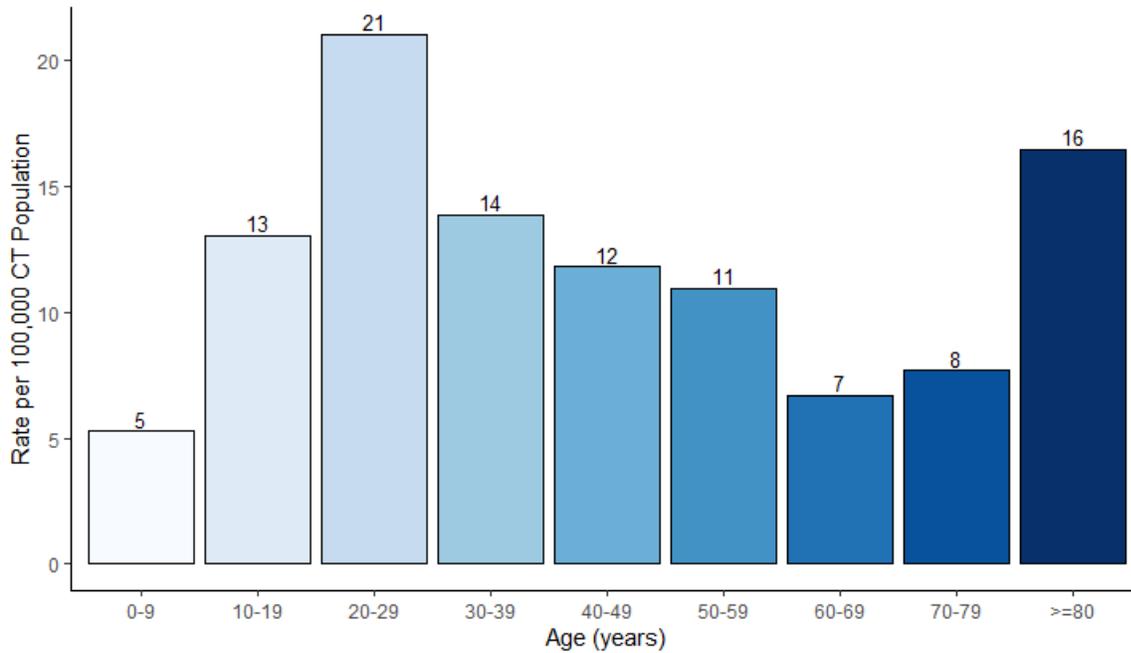## Number of New COVID-19 Cases by Age Group with Collection or Onset during July 12-18
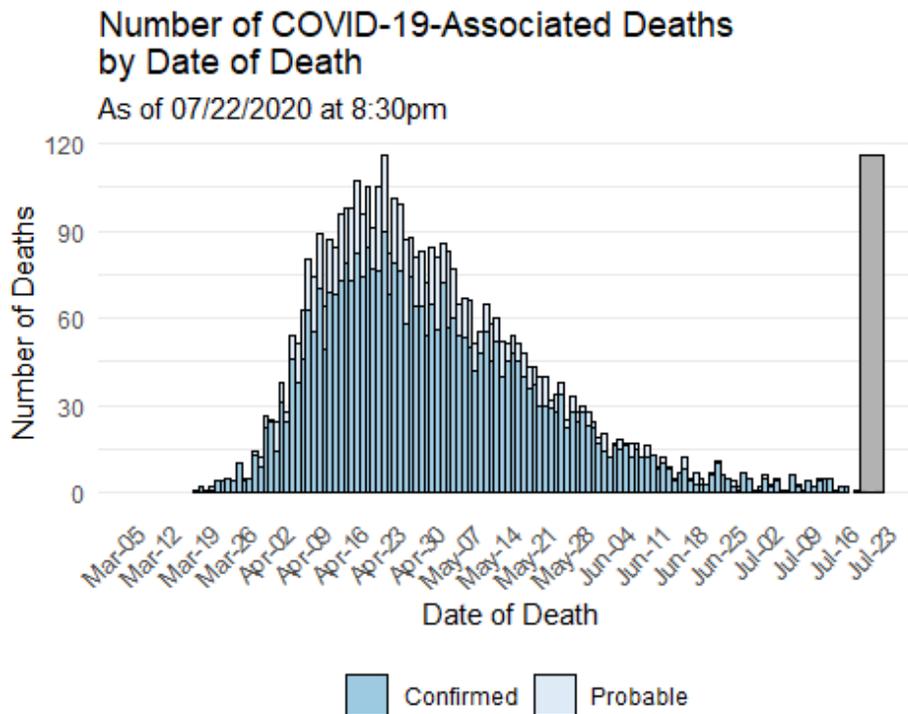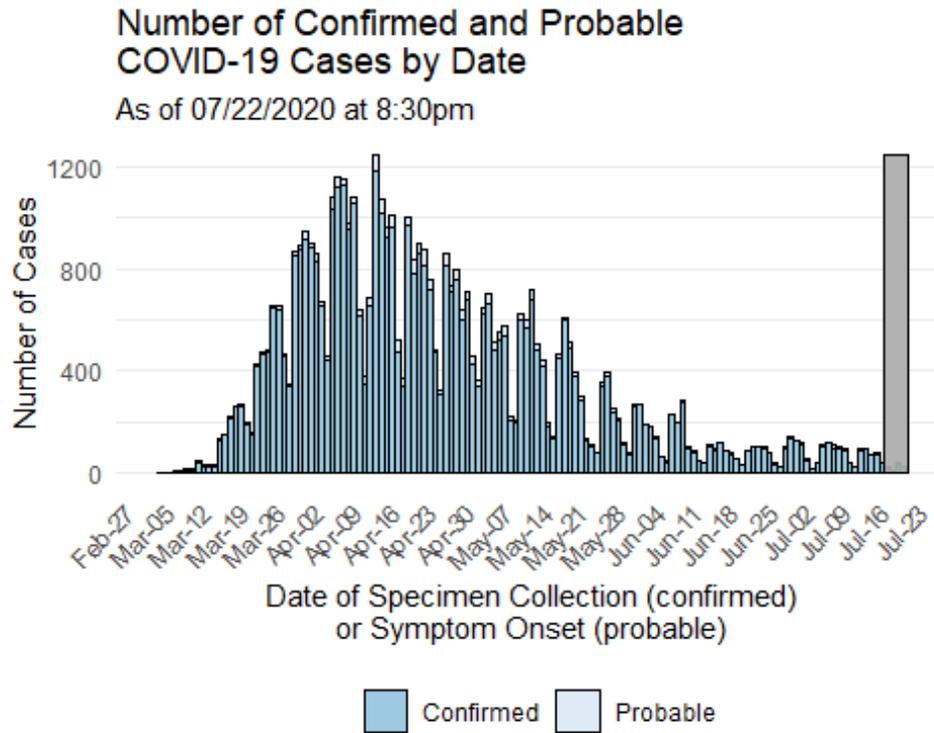
As of 07/22/2020 at 8:30pm

Number of Cases (y-axis)

Age (years)	Number of Cases
0-9	20
10-19	60
20-29	98
30-39	61
40-49	52
50-59	58
60-69	29
70-79	20
>=80	27

Rate of COVID-19 Cases by Age Group with Collection or Onset during July 12-18

As of 07/22/2020 at 8:30pm

Rate per 100,000 CT Population (y-axis)

Age (years)	Rate per 100,000 CT Population
0-9	5
10-19	13
20-29	21
30-39	14
40-49	12
50-59	11
60-69	7
70-79	8
>=80	16

All data are preliminary and subject to change. Updated 7/23/2020.

Cumulative COVID-19 Cases and COVID-19-Associated Deaths by Date

Test results may be reported several days after the date of collection. 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 07/22/2020 at 8:30pm

Number of Cases

Date of Specimen Collection (confirmed) or Symptom Onset (probable)

Confirmed   Probable

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

As of 07/22/2020 at 8:30pm

Number of Deaths

Date of Death

Confirmed   Probable

All data are preliminary and subject to change. Updated 7/23/2020.

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.
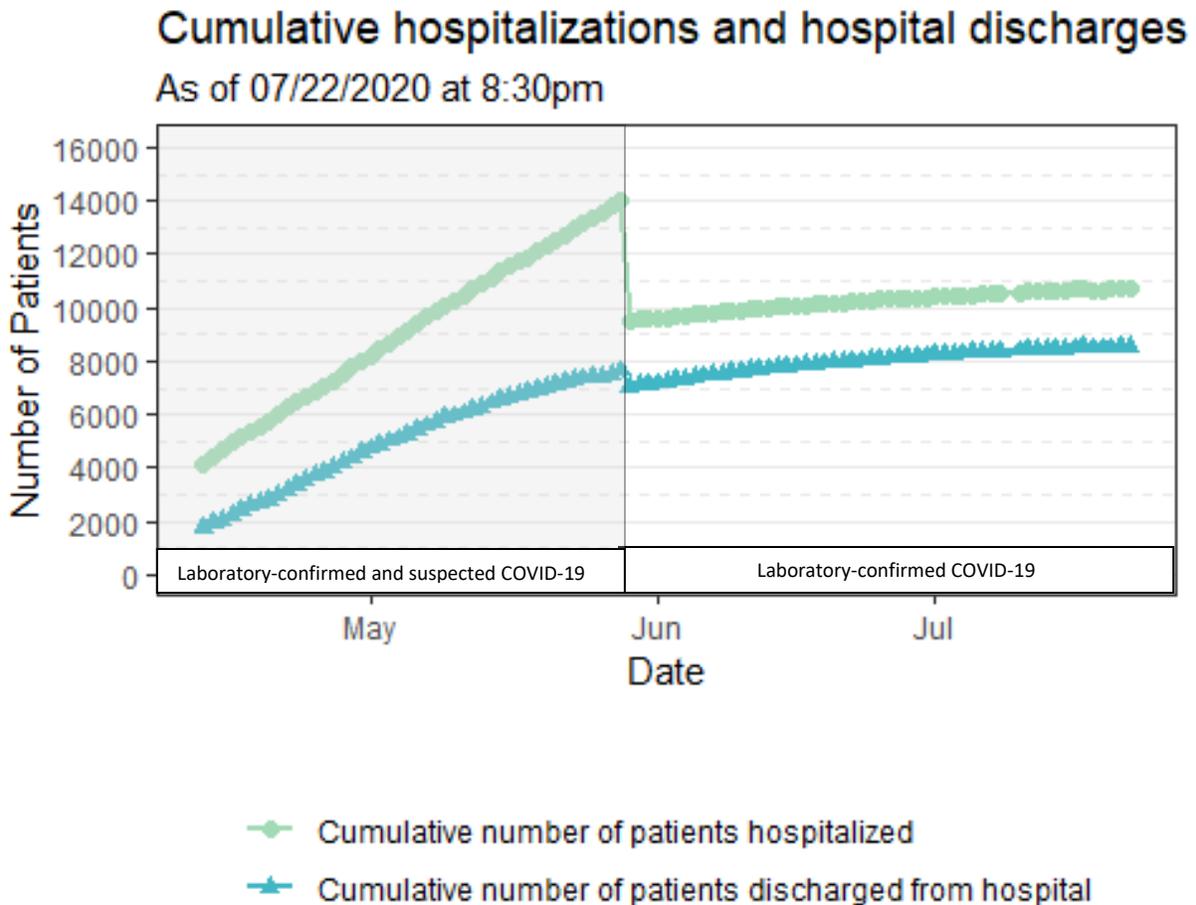
Patients Currently Hospitalized by Connecticut County
Distribution by location of hospital not patient residence. Data from the Connecticut Hospital Association.
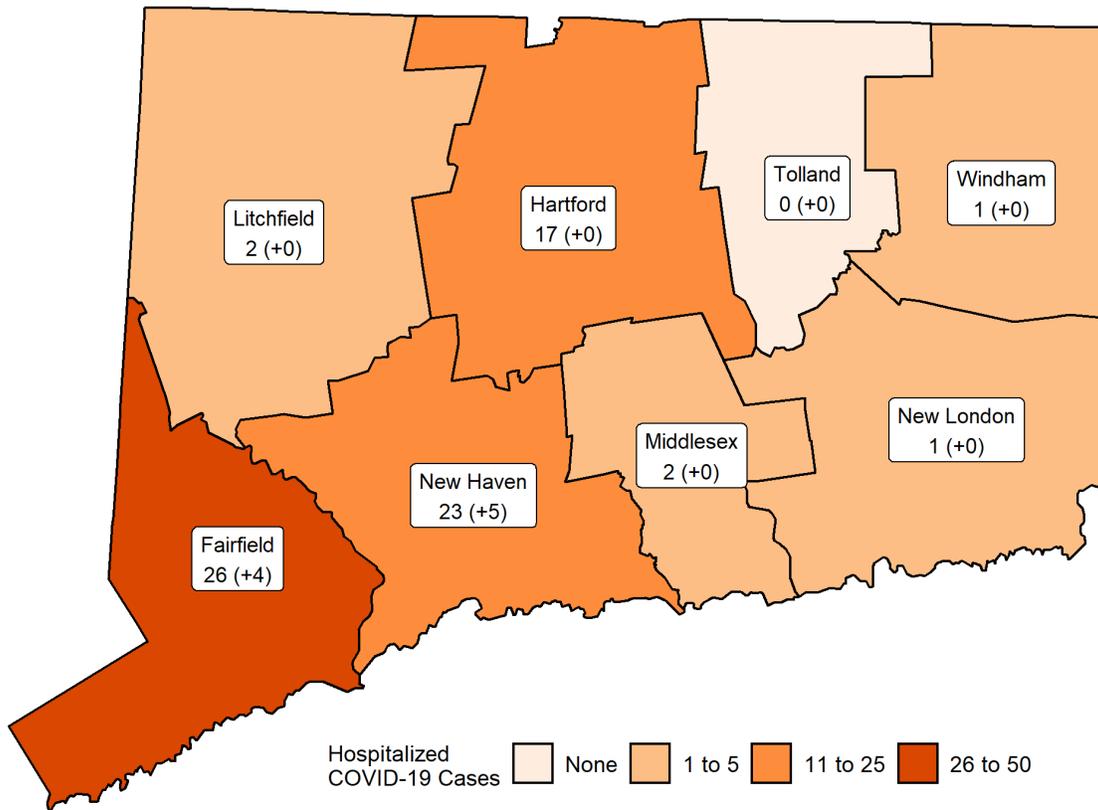
More information about hospitalized cases of COVID-19 in New Haven and Middlesex Counties is available from COVID-NET.

All data are preliminary and subject to change. Updated 7/23/2020.

Cumulative hospitalizations and cumulative hospital discharges for COVID-19

The chart below shows information on cumulative hospitalizations and hospital discharges for patients with COVID-19. Data were collected by the Connecticut Hospital Association. Starting on May 29, 2020, CHA changed to reporting only the number of patients with laboratory-confirmed COVID-19; data for previous dates include patients with laboratory-confirmed or suspected COVID-19. To date, **10712** patients have been hospitalized with laboratory-confirmed COVID-19 in Connecticut and **8516** patients hospitalized with laboratory-confirmed have been discharged.

Cumulative hospitalizations and hospital discharges
As of 07/22/2020 at 8:30pm

Number of Patients vs Date (May, Jun, Jul)

Laboratory-confirmed and suspected COVID-19

Laboratory-confirmed COVID-19

Cumulative number of patients hospitalized

Cumulative number of patients discharged from hospital

All data are preliminary and subject to change. Updated 7/23/2020.

Laboratory Surveillance

To date, DPH has received reports on a total of 685869 COVID-19 laboratory tests; of these 585717 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.
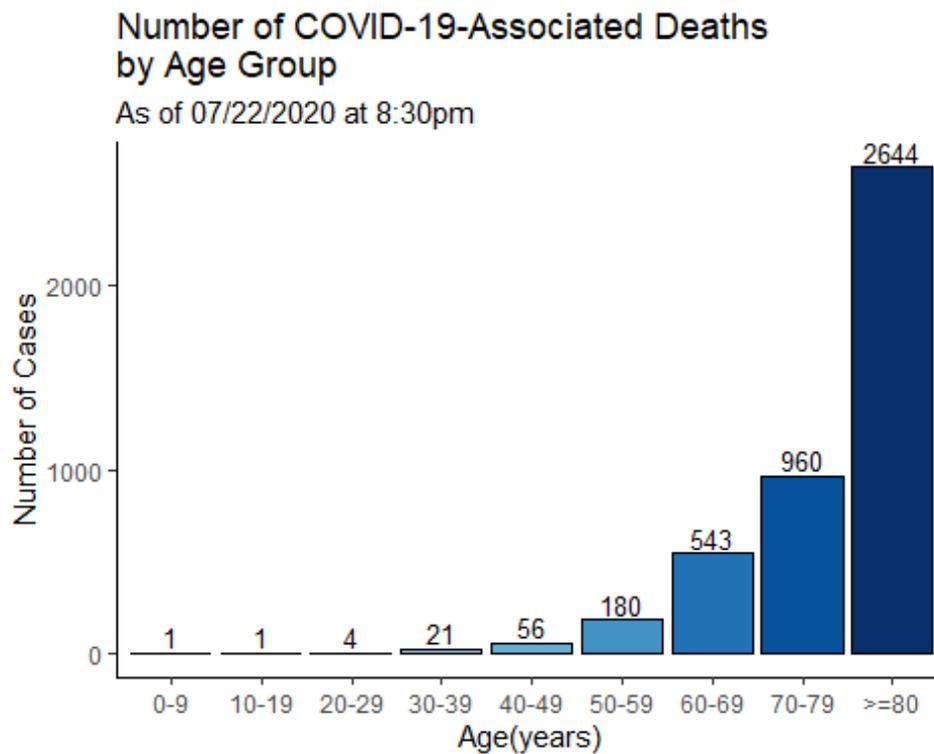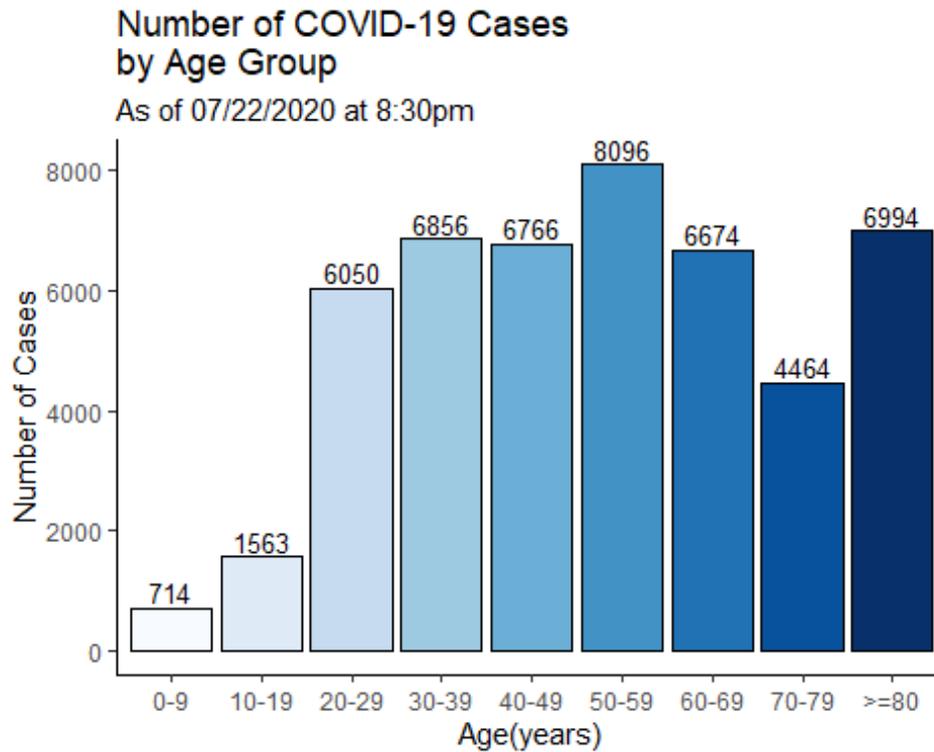
Number of Laboratory Tests for COVID-19 Reported via ELR by Specimen Collection Date
As of 07/22/2020 at 8:30pm
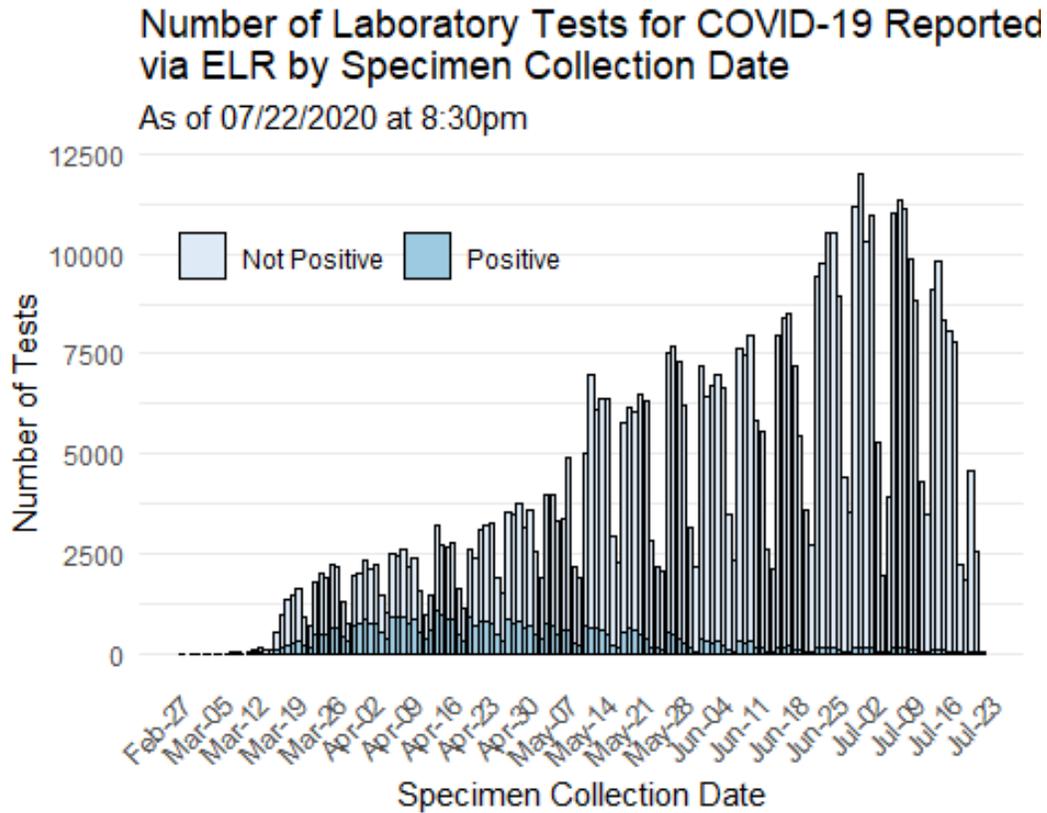
Testing of specimens collected since July 16 is ongoing and does not reflect a decrease in testing. Chart only includes test results received by electronic laboratory reporting.

ELR = Electronic Laboratory Reporting

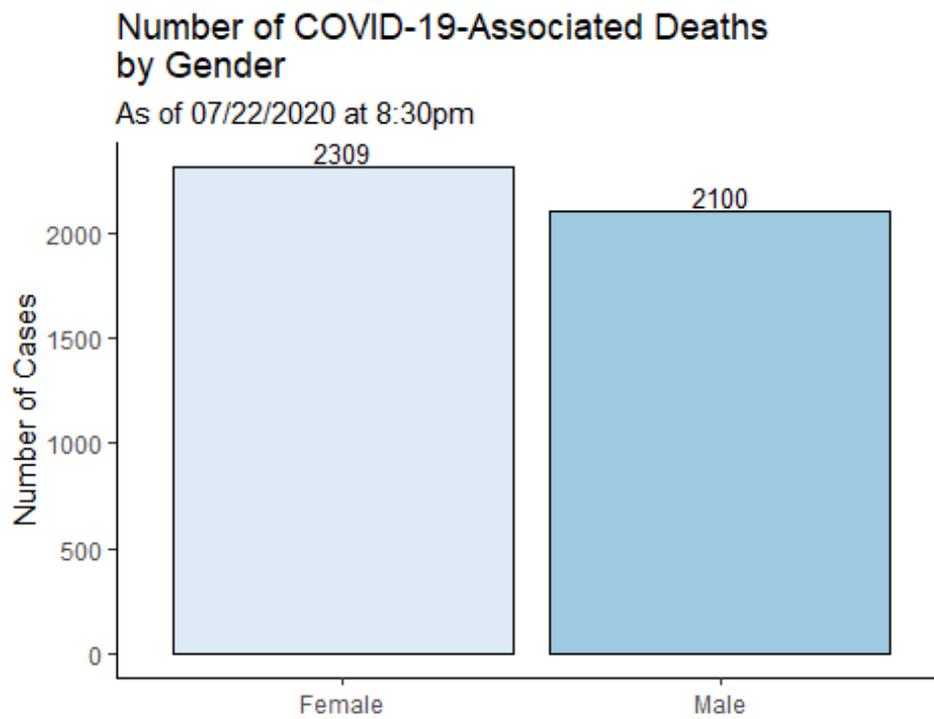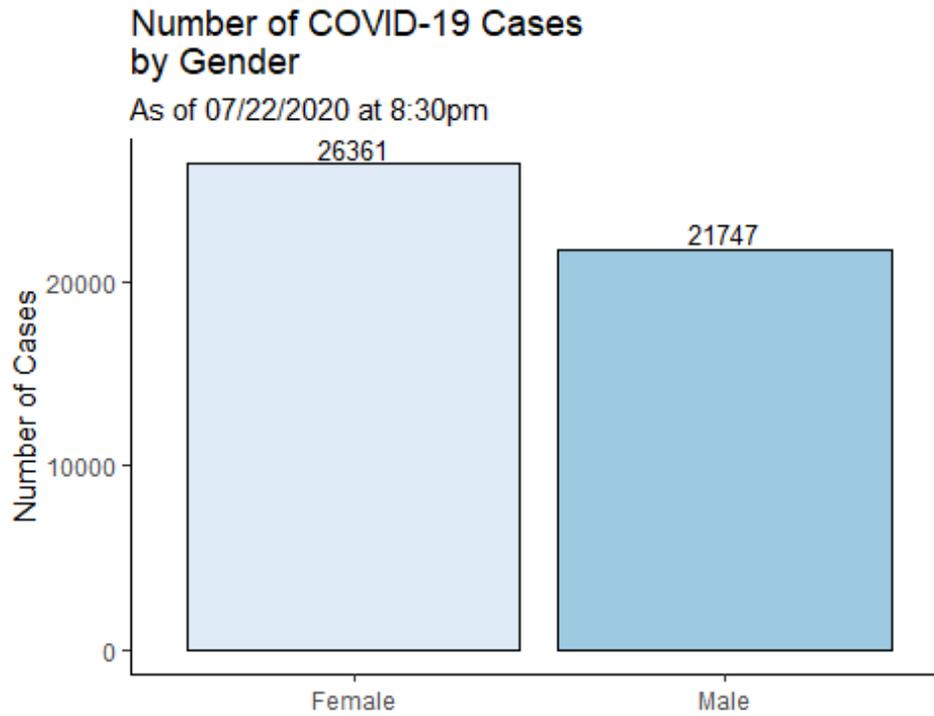All data are preliminary and subject to change. Updated 7/23/2020.

Characteristics of COVID-19 Cases and Associated Deaths

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

Number of COVID-19 Cases by Age Group
As of 07/22/2020 at 8:30pm

Age (years)	Number of Cases
0-9	714
10-19	1563
20-29	6050
30-39	6856
40-49	6766
50-59	8096
60-69	6674
70-79	4464
>=80	6994

Number of COVID-19-Associated Deaths by Age Group
As of 07/22/2020 at 8:30pm

| Age (years)	Number of Cases
0-9	1
10-19	1
20-29	4
30-39	21
40-49	56
50-59	180
60-69	543
70-79	960
>=80	2644

All data are preliminary and subject to change. Updated 7/23/2020.

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

Number of COVID-19 Cases by Gender
As of 07/22/2020 at 8:30pm

Number of COVID-19-Associated Deaths by Gender
As of 07/22/2020 at 8:30pm

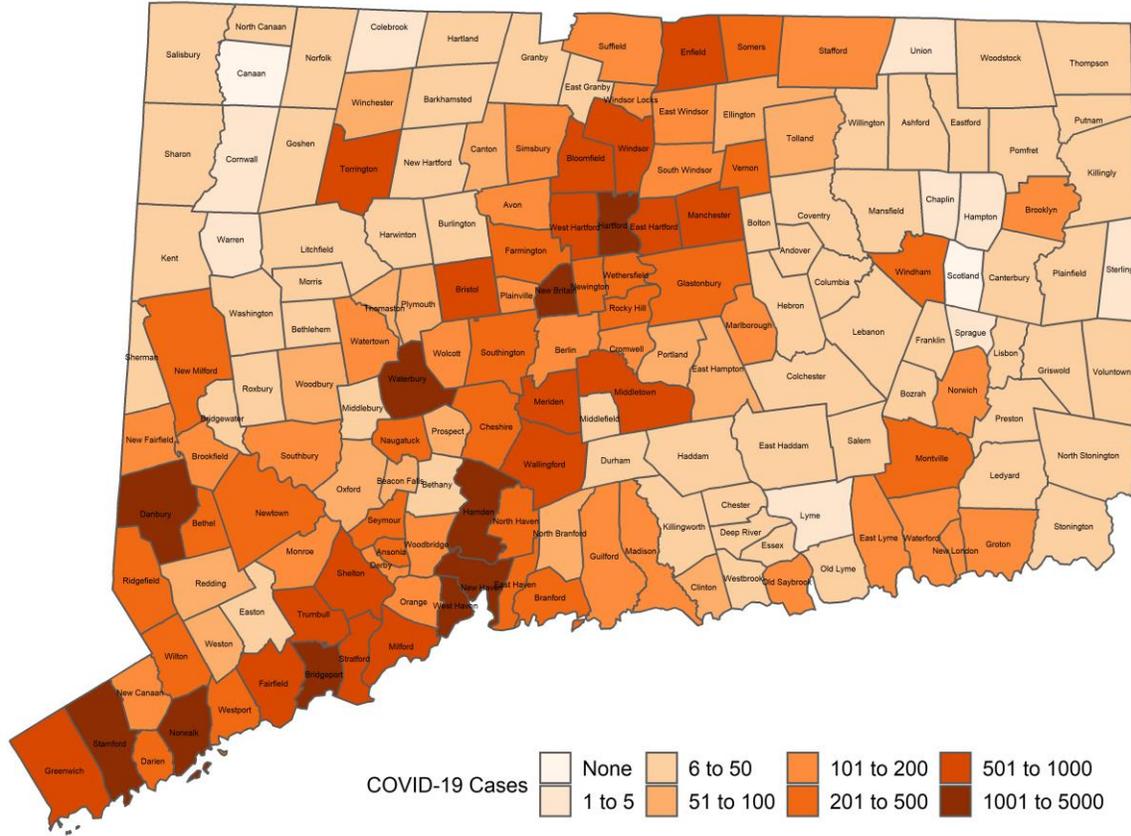All data are preliminary and subject to change. Updated 7/23/2020.

The graphs below show the number of COVID-19-associated deaths by date among people living in congregate settings, such as nursing homes, assisted living facilities, and prisons/jails (first graph) and among people who are not residents of congregate settings (second graph). *Data are incomplete for most recent dates shaded in grey. Data from previous dates are routinely updated.*

Number of COVID-19 Associated Deaths among People Living in Congregate Settings by Date of Death

Number of COVID-19 Associated Deaths Excluding People Living in Congregate Settings by Date of Death
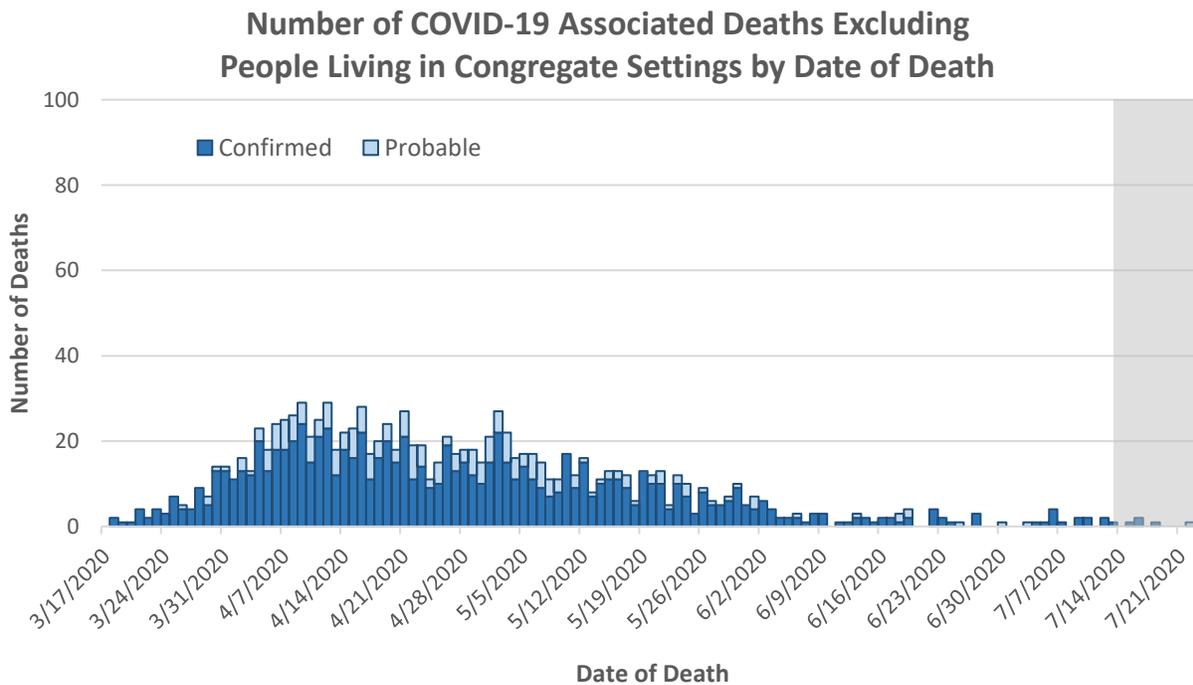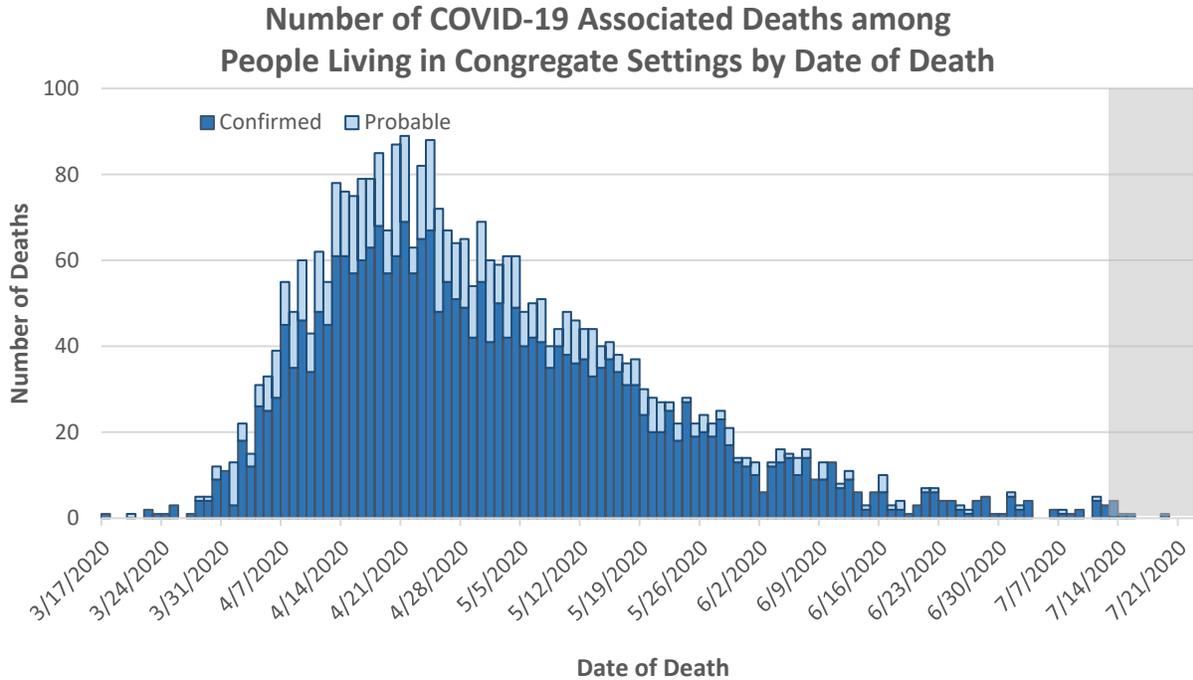
All data are preliminary and subject to change. Updated 7/23/2020.

Cumulative Number of COVID-19 Cases by Town

Map does not include 225 cases pending address validation

All data are preliminary and subject to change. Updated 7/23/2020.

APPENDIX A. Cumulative Number of COVID-19 Cases by Town

*Table does not include 225 cases pending address validation*

Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases	Town	Confirmed Cases	Probable Cases
Andover	9	0	Griswold	32	3	Prospect	66	0
Ansonia	289	7	Groton	131	13	Putnam	32	1
Ashford	21	0	Guilford	100	5	Redding	68	3
Avon	136	9	Haddam	29	1	Ridgefield	218	12
Barkhamsted	26	1	Hamden	1010	38	Rocky Hill	411	18
Beacon Falls	59	0	Hampton	2	0	Roxbury	5	3
Berlin	167	7	Hartford	2569	146	Salem	7	0
Bethany	39	0	Hartland	6	0	Salisbury	14	0
Bethel	253	10	Harwinton	28	3	Scotland	0	0
Bethlehem	11	1	Hebron	27	2	Seymour	223	12
Bloomfield	494	29	Kent	8	1	Sharon	14	0
Bolton	22	1	Killingly	34	2	Shelton	602	40
Bozrah	8	0	Killingworth	16	0	Sherman	14	2
Branford	346	12	Lebanon	26	0	Simsbury	116	12
Bridgeport	3652	130	Ledyard	27	0	Somers	257	23
Bridgewater	10	0	Lisbon	9	0	South Windsor	154	16
Bristol	619	19	Litchfield	43	1	Southbury	193	5
Brookfield	164	5	Lyme	5	0	Southington	334	14
Brooklyn	128	1	Madison	149	7	Sprague	5	0
Burlington	29	1	Manchester	723	61	Stafford	115	8
Canaan	0	0	Mansfield	38	2	Stamford	3313	74
Canterbury	14	1	Marlborough	97	4	Sterling	2	0
Canton	85	9	Meriden	920	37	Stonington	31	5
Chaplin	4	0	Middlebury	46	3	Stratford	842	37
Cheshire	212	8	Middlefield	18	0	Suffield	145	15
Chester	46	1	Middletown	615	25	Thomaston	58	2
Clinton	59	4	Milford	673	21	Thompson	41	1
Colchester	42	2	Monroe	120	4	Tolland	43	8
Colebrook	3	0	Montville	286	6	Torrington	527	27
Columbia	28	0	Morris	14	1	Trumbull	519	49
Cornwall	5	0	Naugatuck	403	9	Union	4	1
Coventry	44	4	New Britain	1060	76	Vernon	205	12
Cromwell	127	12	New Canaan	192	3	Voluntown	9	0
Danbury	1877	76	New Fairfield	115	2	Wallingford	494	10
Darien	221	5	New Hartford	28	0	Warren	5	0
Deep River	13	2	New Haven	2729	53	Washington	22	1
Derby	170	0	New London	179	6	Waterbury	2025	88
Durham	43	3	New Milford	296	10	Waterford	172	8
East Granby	12	0	Newington	384	21	Watertown	145	7
East Haddam	20	0	Newtown	233	13	West Hartford	677	58
East Hampton	48	4	Norfolk	11	1	West Haven	1057	37
East Hartford	862	58	North Branford	86	4	Westbrook	36	0
East Haven	408	22	North Canaan	6	1	Weston	67	3
East Lyme	150	11	North Haven	270	4	Westport	305	15
East Windsor	148	14	North Stonington	14	1	Wethersfield	251	5
Eastford	8	0	Norwalk	2061	56	Willington	15	0
Easton	33	1	Norwich	114	7	Wilton	205	26
Ellington	64	5	Old Lyme	22	0	Winchester	52	1
Enfield	606	14	Old Saybrook	111	4	Windham	290	0
Essex	48	0	Orange	129	3	Windsor	546	44
Fairfield	620	51	Oxford	81	4	Windsor Locks	120	6
Farmington	217	6	Plainfield	40	1	Wolcott	118	6
Franklin	6	0	Plainville	175	3	Woodbridge	138	7
Glastonbury	286	24	Plymouth	70	5	Woodbury	51	1
Goshen	10	1	Pomfret	15	0	Woodstock	17	0
Granby	26	1	Portland	71	4			
Greenwich	835	38	Preston	15	0			

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APPENDIX B. 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
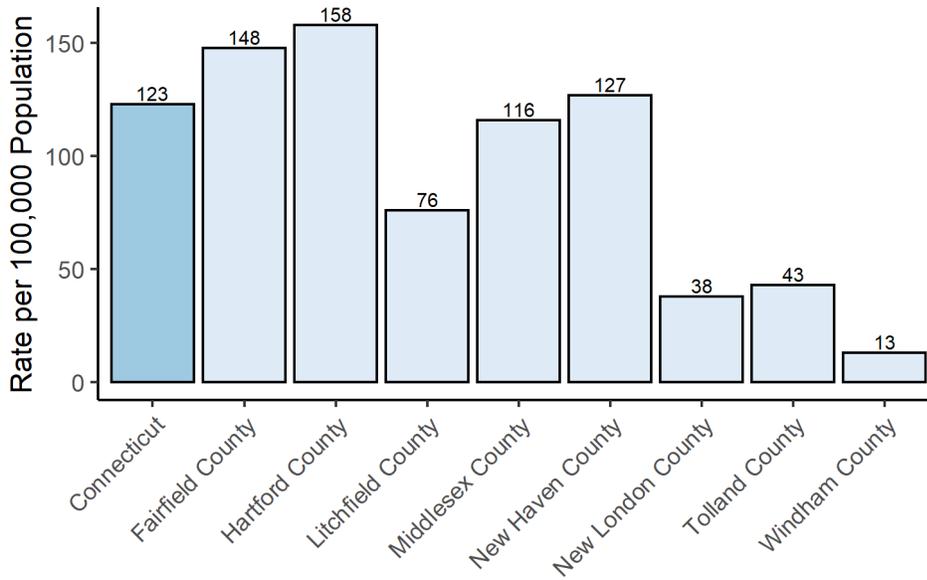
Rate of COVID-19 Cases Statewide and by County
As of 07/22/2020 at 8:30pm
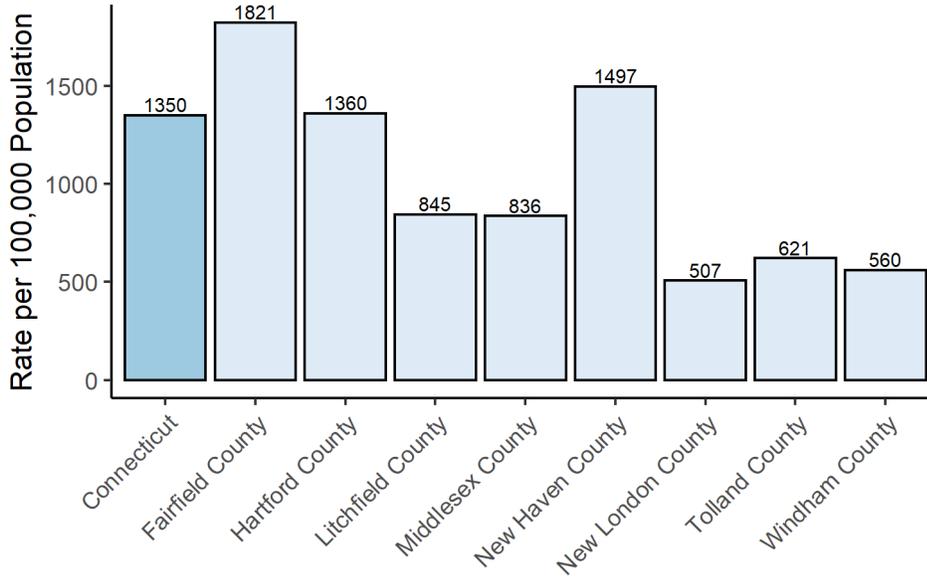
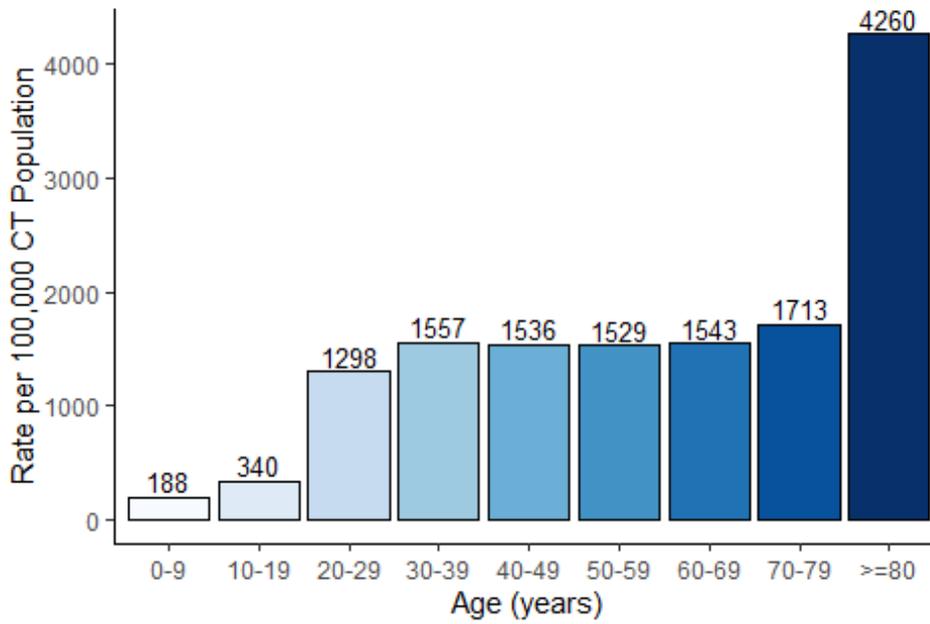## Rate of COVID-19-Associated Deaths Statewide and by County
As of 07/22/2020 at 8:30pm

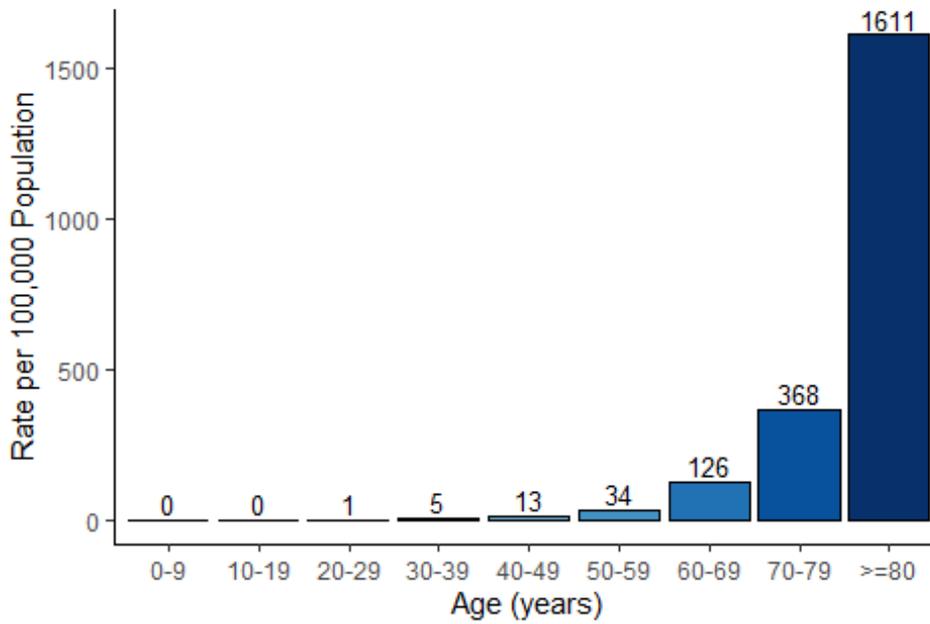All data are preliminary and subject to change. Updated 7/23/2020.

Rate of COVID-19 Cases
by Age Group
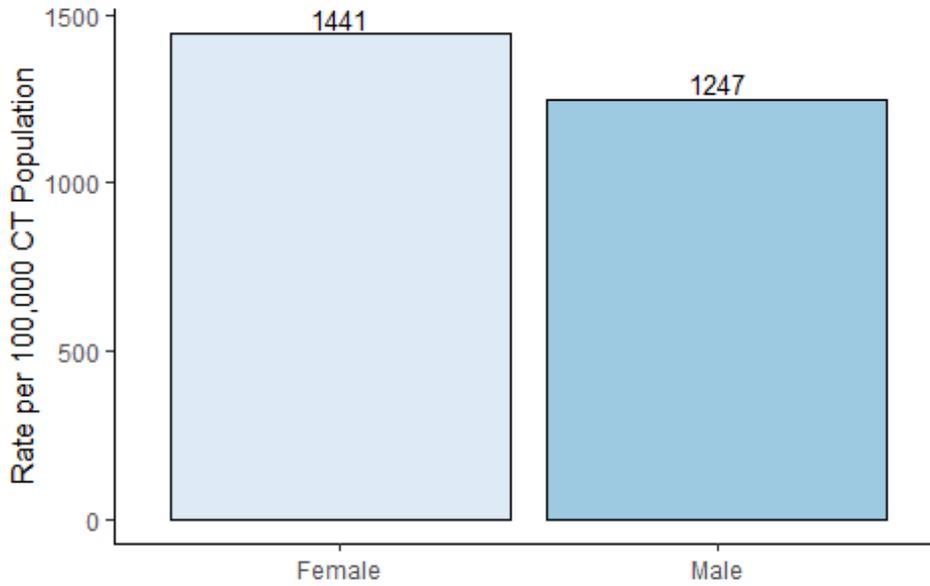
As of 07/22/2020 at 8:30pm

Rate per 100,000 CT Population

0-9	188
10-19	340
20-29	1298
30-39	1557
40-49	1536
50-59	1529
60-69	1543
70-79	1713
>=80	4260

Age (years)

Rate of COVID-19-Associated Deaths
by Age Group

As of 07/22/2020 at 8:30pm

Rate per 100,000 Population

0-9	0
10-19	0
20-29	1
30-39	5
40-49	13
50-59	34
60-69	126
70-79	368
>=80	1611

Age (years)

All data are preliminary and subject to change. Updated 7/23/2020.

## Rate of COVID-19 Cases by Gender

As of 07/22/2020 at 8:30pm

Rate of COVID-19-Associated Deaths by Gender

As of 07/22/2020 at 8:30pm

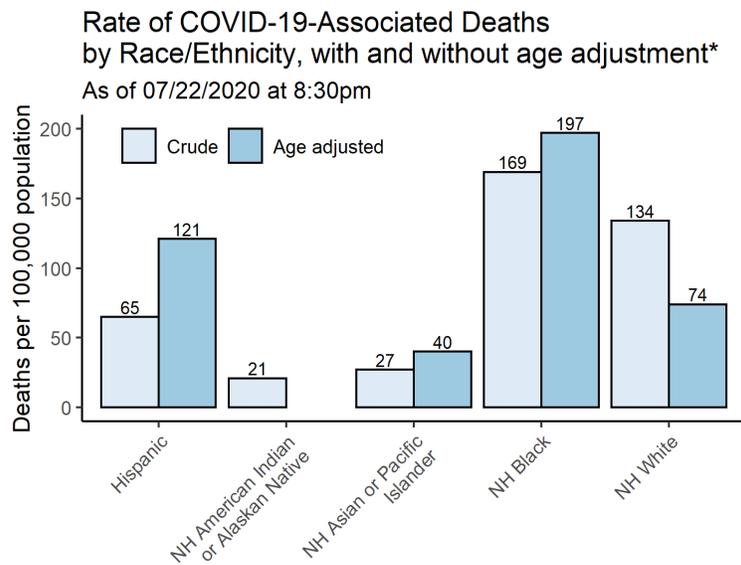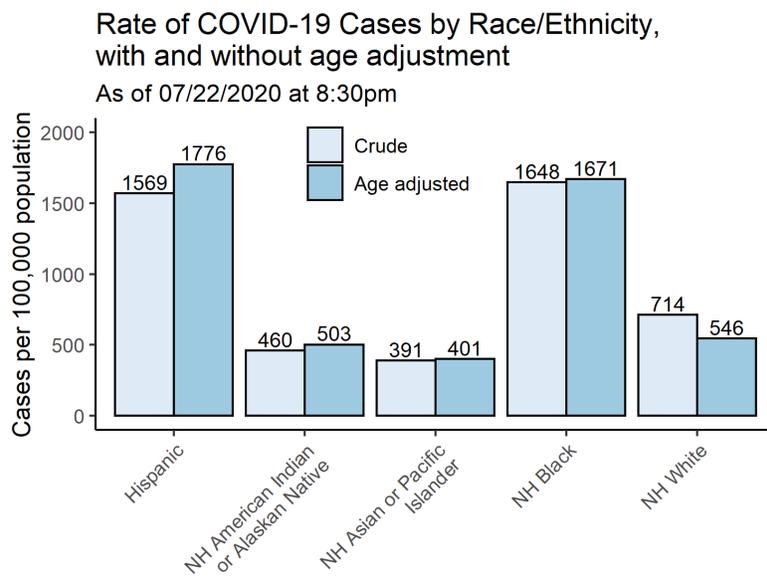All data are preliminary and subject to change. Updated 7/23/2020.
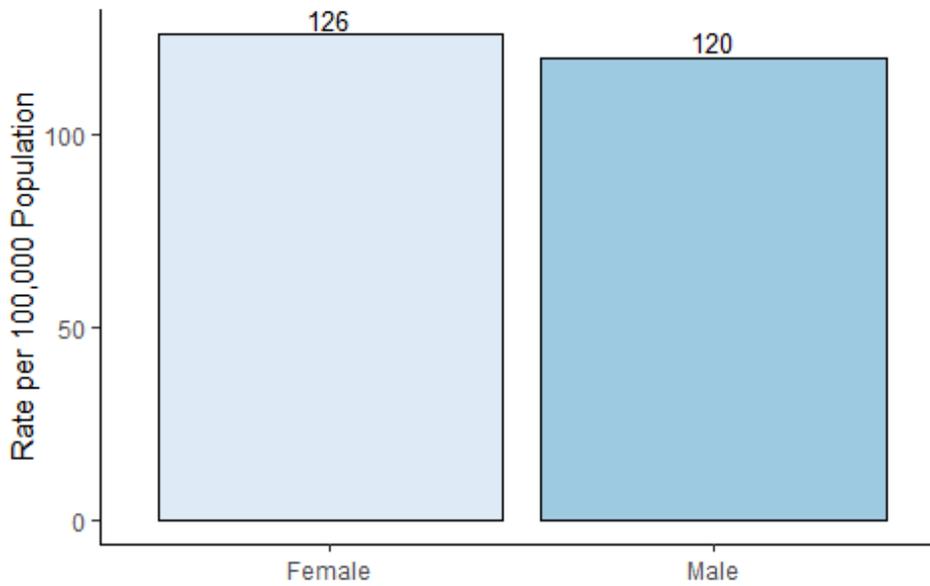
APPENDIX C. The following graphs show the number of cases and deaths by race and ethnicity. *Categories are mutually exclusive. The category "multiracial" includes people who answered 'yes' to more than one race category. NH=Non-Hispanic*

Number of COVID-19 Cases by Race\Ethnicity
As of 07/22/2020 at 8:30pm

Number of COVID-19-Associated Deaths by Race\Ethnicity
As of 07/22/2020 at 8:30pm
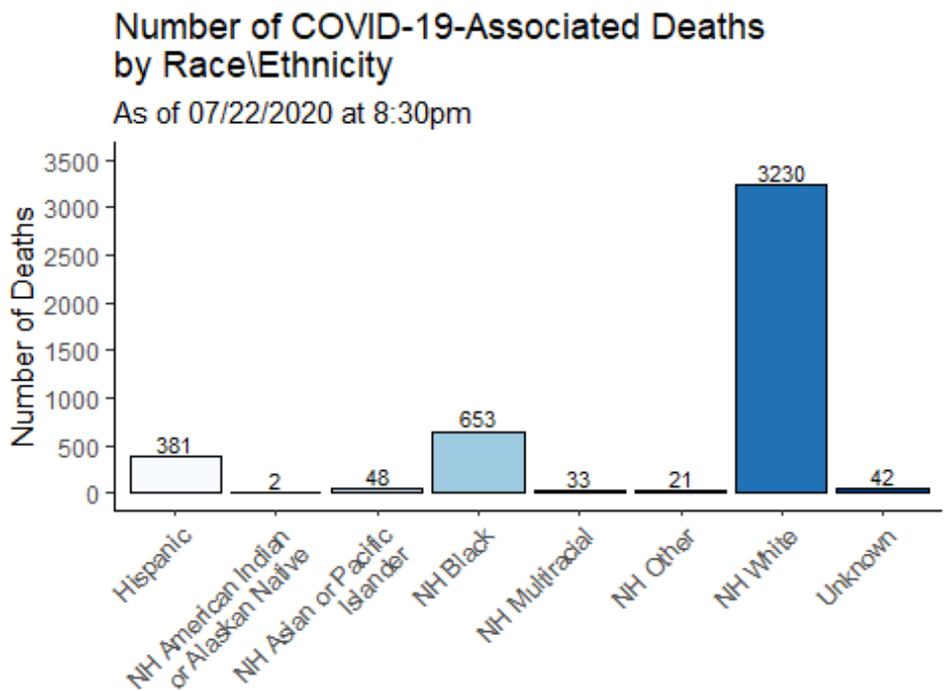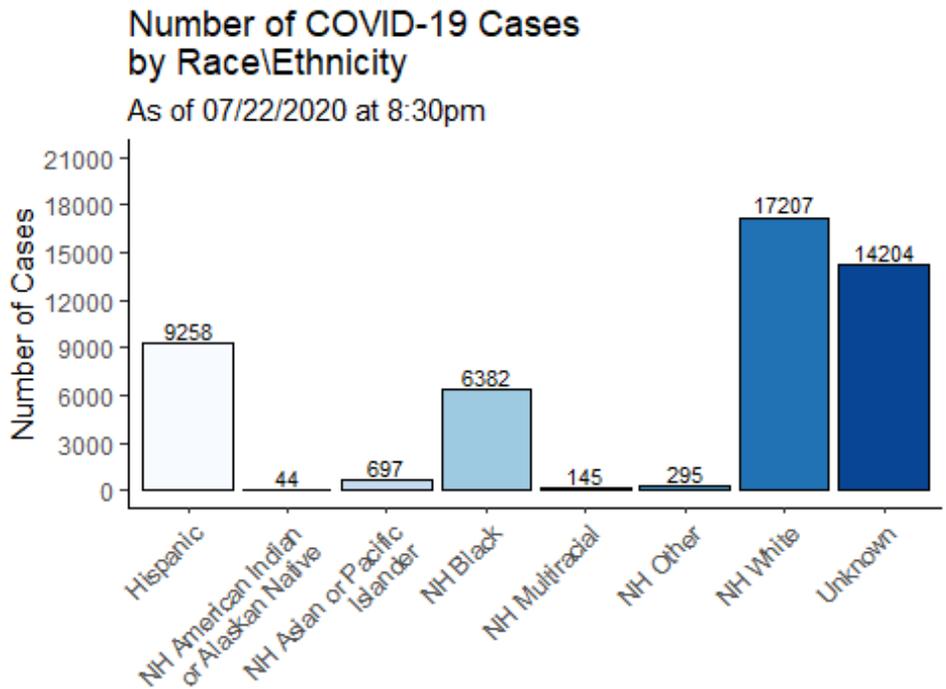
All data are preliminary and subject to change. Updated 7/23/2020.

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*

Rate of COVID-19 Cases by Race/Ethnicity, with and without age adjustment
As of 07/22/2020 at 8:30pm

Rate of COVID-19-Associated Deaths by Race/Ethnicity, with and without age adjustment*
As of 07/22/2020 at 8:30pm

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

All data are preliminary and subject to change. Updated 7/23/2020.