COVID-19 Data from NCHS
- COVID-19 Death Data and Resources
  - Daily Updates of Totals by Week and State
  - **Weekly Updates by Select Demographic and Geographic Characteristics**
  - Health Disparities: Race and Hispanic Origin
  - Excess Deaths Associated with COVID-19
  - Index of Available Data Files
  - Technical Notes
  - Coronavirus Disease 2019 (COVID-19) FAQs
- Reporting and Coding Deaths Due to COVID-19
- COVID-19 Birth Data and Resources
- Health Care Access and Mental Health
- Health Care Access, Telemedicine, and Loss of Work Due to Illness
- Articles on NCHS Response to COVID-19
- Release Schedule
- E-mail Updates

Related Sites
- CDC Coronavirus (COVID-19)
- National Vital Statistics System

Weekly Updates by Select Demographic and Geographic Characteristics

Provisional Death Counts for Coronavirus Disease 2019 (COVID-19)

Contents

- Daily Updates of Totals by Week and State
- **Weekly Updates by Select Demographic and Geographic Characteristics**
- Health Disparities: Race and Hispanic Origin
- Excess Deaths Associated with COVID-19
- Index of Available Data Files
- Technical Notes

Updated: November 4, 2020

Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of November 4, 2020. Death counts are delayed and may differ from other published sources (see Technical Notes). Counts will be updated every Wednesday by 5pm. Additional information will be added to this site as available.

List of Topics

1. Age and sex
2. Race and Hispanic origin
3. Place of death
4. Comorbidities
5. Excess deaths
6. State and county data files

For the Index of Provisional COVID-19 Mortality Surveillance and Ad-hoc Data Files, click here.

Age and sex

Table 1 has counts of death involving COVID-19 and select causes of death by sex and age group for the United States. For data on sex and age at the state level, Click here to download. For data on sex and age by week, Click here to download.

NOTICE TO USERS: The data file for deaths by sex and age at the state level has been updated on September 2, 2020 to include the following age groups in addition to the age groups that are routinely included: 0-17, 18-29, 30-49, and 50-64. The new age groups are consistent with categories used across CDC COVID-19 surveillance pages. When analyzing the file, the user should make sure to select only the desired age groups. Summing across all age categories provided will result in double counting deaths from certain age groups.

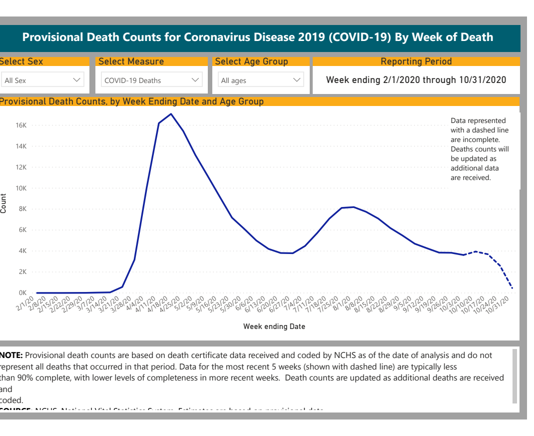
Data on deaths involving COVID-19 among ages 0–18 are available here: Click here to download.

Table 1. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by sex and age group. United States. Week ending 2/1/2020 to 10/31/2020.*

Updated November 4, 2020

Sex	Age group	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]	Deaths involving Pneumonia, Influenza, or COVID-19 (U07.1 or J09–J18.9)[4]	Pop
Total								
	All ages	**217,348**	2,386,184	222,821	98,881	6,764	347,041	32
	Under 1 year	**25**	13,508	126	4	16	163	
	1–4 years	**15**	2,534	81	2	42	136	1
	5–14 years	**39**	4,036	114	7	53	199	4
	15–24 years	**400**	25,948	520	140	55	831	4
	25–34 years	**1,677**	52,969	1,868	742	153	2,941	4
	35–44 years	**4,333**	74,757	4,184	1,921	250	6,817	4
	45–54 years	**11,476**	136,615	10,938	5,408	586	17,485	4
	55–64 years	**27,569**	312,642	29,284	13,553	1,250	44,330	4
	65–74 years	**46,988**	473,685	49,811	23,029	1,465	74,991	3
	75–84 years	**57,866**	576,444	61,038	27,189	1,495	92,999	1
	85 years and over	**66,960**	713,046	64,857	26,886	1,399	106,149	
Males								
	All ages	**117,553**	1,245,527	122,428	55,970	3,489	186,879	16
	Under 1 year	**17**	7,491	74	3	8	96	
	1–4 years	**7**	1,476	39	1	25	70	
	5–14 years	**25**	2,424	58	6	24	101	2
	15–24 years	**244**	19,225	315	84	27	499	2
	25–34 years	**1,094**	37,438	1,151	472	78	1,841	2
	35–44 years	**2,926**	49,247	2,634	1,300	133	4,371	2
	45–54 years	**7,813**	85,960	6,842	3,701	350	11,230	2
	55–64 years	**17,803**	192,360	17,817	8,689	710	27,492	2
	65–74 years	**28,759**	274,926	29,949	14,220	818	45,148	1
	75–84 years	**31,904**	299,428	34,273	15,435	743	51,366	
	85 years and over	**26,961**	275,552	29,276	12,059	573	44,665	
Females								
	All ages	**99,789**	1,140,564	100,386	42,907	3,274	160,152	16
	Under 1 year	**8**	5,994	52	1	8	67	
	1–4 years	**8**	1,058	42	1	17	66	
	5–14 years	**14**	1,612	56	1	29	98	2
	15–24 years	**156**	6,720	205	56	28	332	2
	25–34 years	**583**	15,529	717	270	75	1,100	2
	35–44 years	**1,407**	25,506	1,550	621	117	2,446	2
	45–54 years	**3,661**	50,651	4,095	1,706	236	6,253	2
	55–64 years	**9,766**	120,272	11,466	4,864	539	16,836	2
	65–74 years	**18,228**	198,749	19,861	8,808	647	29,842	1
	75–84 years	**25,961**	277,002	26,763	11,753	752	41,631	
	85 years and over	**39,997**	437,471	35,579	14,826	826	61,481	

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Counts of death occurring before or after the reporting period are not included in the table.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction and cause of death.
[1]Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1
[2]Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.
[3]Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.
[4]Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD–10 codes U07.1 or J09–18.9.
[5]Population is based on 2019 postcensal estimates from the U.S. Census Bureau.



Race and Hispanic origin

Data by race and Hispanic origin are available at the national, state, and county level. Data by race and Hispanic origin is also available by age at the national and state level. Click here to visit the NCHS Health Disparities: Race and Hispanic origin page.

Place of death

Table 2 presents death counts of COVID-19 and other select causes of death by the place of death. For data on place of death at the state level, Click here to download.

For data on place of death by age group, state, and HHS Region, Click here to download.

Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by place of death, United States. Week ending 2/1/2020 to 10/31/2020.*

Updated November 4, 2020

Place of death	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]
Total	**217,348**	2,386,184	222,821	98,881	6,764
Healthcare setting, inpatient	**141,270**	697,370	159,600	78,911	4,096
Healthcare setting, outpatient or emergency room	**7,467**	141,936	7,190	2,426	246
Healthcare setting, dead on arrival	**199**	6,836	150	52	13
Decedent's home	**11,875**	810,423	15,281	2,523	1,460
Hospice facility	**6,538**	149,416	10,747	3,062	318
Nursing home/long term care facility	**46,049**	413,605	26,139	10,856	532
Other	**3,850**	163,587	3,634	1,020	99
Place of death unknown	**100**	3,011	80	31	0

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Counts of deaths occurring before or after the reporting period are not included in the table.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction and cause of death.
[1]Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
[2]Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.
[3]Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

Comorbidities

Table 3 shows the types of health conditions and contributing causes mentioned in conjunction with deaths involving coronavirus disease 2019 (COVID-19). For 6% of the deaths, COVID-19 was the only cause mentioned. For deaths with conditions or causes in addition to COVID-19, on average, there were 2.6 additional conditions or causes per death. The number of deaths with each condition or cause is shown for all deaths and by age groups. For data on comorbidities, Click here to download.

Table 3. Conditions contributing to deaths involving coronavirus disease 2019 (COVID-19), by age group, United States. Week ending 2/1/2020 to 10/31/2020.*

Updated November 4, 2020

		Number of Conditions							
		Age Group							
Conditions Contributing to Deaths where COVID-19 was listed on the death certificate[1]	ICD–10 codes	All ages	0–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65–74 years	75–84 years
Total COVID-19 deaths[2], as of 10/31/2020	U071	217,337	479	1,681	4,334	11,478	27,563	46,982	57,859
Respiratory diseases		-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	94,277	160	764	1,951	5,526	13,332	21,867	25,290
Chronic lower respiratory diseases	J40–J47	19,143	32	80	182	527	2,014	4,642	6,128
Adult respiratory distress syndrome	J80	27,788	78	311	808	2,301	5,014	7,431	6,738
Respiratory failure	J96	76,337	142	543	1,406	4,215	10,256	18,007	21,251
Respiratory arrest	R09.2	4,435	9	32	83	216	494	915	1,165
Other diseases of the respiratory system	J00–J06, J20–J39, J60–J70, J81–J86, J90–J95, J97–J99, U04	8,299	26	70	183	455	1,089	1,857	2,245
Circulatory diseases		-	-	-	-	-	-	-	-
Hypertensive diseases	I10–I15	46,843	24	142	603	2,009	5,691	10,322	12,926
Ischemic heart disease	I20–I25	24,898	4	32	137	610	2,303	5,167	7,591
Cardiac arrest	I46	26,253	68	249	621	1,733	3,866	6,087	6,576
Cardiac arrhythmia	I44, I45, I47–I49	14,126	13	33	91	322	1,049	2,579	4,247
Heart failure	I50	14,818	6	50	108	387	1,239	2,601	4,149
Cerebrovascular diseases	I60–I69	10,866	7	35	113	396	1,257	2,463	3,143
Other diseases of the circulatory system	I00–I09, I26–I43, I51, I52, I70–I99	12,685	60	135	305	720	1,675	2,833	3,188
Sepsis	A40–A41	20,535	50	196	498	1,514	3,564	5,727	5,203
Malignant neoplasms	C00–C97	10,245	34	50	133	383	1,387	2,685	3,066
Diabetes	E10–E14	35,699	57	232	797	2,429	5,904	9,655	9,581
Obesity	E65–E68	8,238	113	388	855	1,422	2,078	2,027	1,062
Alzheimer disease	G30	8,089	0	0	0	3	64	543	2,378
Vascular and unspecified dementia	F01, F03	24,405	0	1	2	27	375	2,268	7,262
Renal failure	N17–N19	19,690	26	157	410	1,242	2,990	5,092	5,207
Intentional and unintentional injury, poisoning and other adverse events	S00–T98, V01–X59, X60–X84, X85–Y09, Y10–Y36, Y40–Y89, U01–U03	7,770	78	231	300	476	938	1,484	1,817
All other conditions and causes (residual)	A00–A39, A42–B99, D00–E07, E15–E64, E70–E90, F00, F02, F04–G26, G31–H95, K00–K93, L00–M99, N00–N16, N20–N99, O00–O99, P00–P96, Q00–Q99, R00–R08, R09.0, R09.1, R09.3, R09.8, R10–R99	112,379	379	1,040	2,262	6,090	15,131	26,339	29,739

NOTE: Number of conditions reported in this table are tabulated from deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period. Data for this table are derived from a cut of the NVSS database taken at a particular time, separate from other surveillance tables on this page which are tabulated on the date of update. As a result, the total number of COVID-19 deaths in this table may not match other surveillance tables on this page.
*Data during the period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more.
[1]Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD–10). Deaths involving more than one condition (e.g., deaths involving both diabetes and respiratory arrest) were counted in both totals. To avoid counting the same death multiple times, the numbers for different conditions should not be summated.
[2]Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1

Excess deaths

See the NCHS Excess Deaths Data Visualization.

This data visualization presents data on weekly counts of all-cause mortality by jurisdiction of occurrence. Counts of deaths in the most recent weeks are compared with historical trends to determine whether the number of deaths in recent weeks is significantly higher than expected.

State and County Data Files

Weekly Counts of Deaths by State and Select Causes

- Final data for 2014–2018 – Weekly counts of leading causes of death based on final underlying cause mortality data for years 2014–2018.
- Provisional data for 2019–2020 – Weekly counts of leading causes of death based on provisional underlying cause mortality data for 2019–2020, updated weekly.

Provisional COVID-19 Death Counts in the United States by County

- This file includes deaths involving COVID-19 (coded to ICD–10 code U07.1) and total deaths per county. Counties included in this table had 10 or more COVID-19 deaths at the time of analysis.

Understanding the Numbers: Provisional Death Counts and COVID-19

Provisional death counts deliver the most complete and accurate picture of lives lost to COVID-19. They are based on death certificates, which are the most reliable source of data and contain information not available anywhere else, including comorbid conditions, race and ethnicity, and place of death.

How it Works

The National Center for Health Statistics (NCHS) uses incoming data from death certificates to produce provisional COVID-19 death counts. These include deaths occurring within the 50 states and the District of Columbia.

NCHS also provides summaries that examine deaths in specific categories and in greater geographic detail, such as deaths by county and by race and Hispanic origin.

COVID-19 deaths are identified using a new ICD–10 code. When COVID-19 is reported as a cause of death – or when it is listed as a "probable" or "presumed" cause — the death is coded as **U07.1**. This can include cases with or without laboratory confirmation.

Why These Numbers are Different

Provisional death counts may not match counts from other sources, such as media reports or numbers from county health departments. Counts by NCHS often track 1–2 weeks behind other data.

- **Death certificates take time to be completed.** There are many steps to filling out and submitting a death certificate. Waiting for test results can create additional delays.
- **States report at different rates.** Currently, 63% of all U.S. deaths are reported within 10 days of the date of death, but there is significant variation between states.
- **It takes extra time to code COVID-19 deaths.** While 80% of deaths are electronically processed and coded by NCHS within minutes, most deaths from COVID-19 must be coded by a person, which takes an average of 7 days.
- **Other reporting systems use different definitions or methods for counting deaths.**

Things to know about the data

Provisional counts are not final and are subject to change. Counts from previous weeks are continually revised as more records are received and processed.

Provisional data are not yet complete. Counts will not include all deaths that occurred during a given time period, especially for more recent periods. However, we can estimate how complete our numbers are by looking at the average number of deaths reported in previous years.

Death counts should not be compared across states. Some states report deaths on a daily basis, while other states report deaths weekly or monthly. State vital record reporting may also be affected or delayed by COVID-19 related response activities.

For more detailed technical information, visit the Provisional Death Counts for Coronavirus Disease 2019 (COVID-19) Technical Notes page.

Download PDF Version

Page last reviewed: November 4, 2020
Content source: National Center for Health Statistics