



National Center for Health Statistics

Weekly Updates by Select Demographic and Geographic Characteristics

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

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Updated: Renal failure

 Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 16, 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

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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 Intentional and unintentional injury, poisoning and other adverse events**

Updated Renal failure

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	Population ⁵
Total								
	All ages	182,095	1,957,766	186,116	81,691	6,687	292,214	327,167,434
	Under 1 year	20	10,876	103	3	16	136	3,848,208
	1–4 years	14	2,083	72	2	42	126	15,962,067
	5–14 years	30	3,226	102	8	52	176	41,075,169
	15–24 years	333	20,786	424	119	53	687	42,970,800
	25–34 years	1,405	42,919	1,555	626	151	2,471	45,697,774
	35–44 years	3,675	60,673	3,506	1,619	247	5,780	41,277,888
	45–54 years	9,694	111,610	9,089	4,510	577	14,745	41,631,699
	55–64 years	23,134	255,771	24,339	11,191	1,238	37,300	42,272,636
	65–74 years	39,129	387,801	41,218	18,788	1,450	62,772	30,492,316

75–84 years	48,136	473,523	50,803	22,276	1,476	77,932	15,394,374
85 years and over	56,525	588,498	54,905	22,549	1,385	90,089	6,544,503
Males							
All ages	98,383	1,021,269	101,845	46,014	3,445	157,047	161,128,679
Under 1 year	13	6,006	65	2	8	84	1,968,505
1–4 years	7	1,213	36	1	25	67	8,163,697
5–14 years	21	1,911	53	7	23	90	20,974,830
15–24 years	207	15,398	265	74	27	422	21,976,455
25–34 years	934	30,289	962	406	76	1,557	23,210,709
35–44 years	2,514	40,013	2,225	1,106	132	3,742	20,587,600
45–54 years	6,619	70,196	5,698	3,092	342	9,495	20,541,202
55–64 years	15,033	157,542	14,841	7,218	704	23,211	20,398,863
65–74 years	24,088	225,437	24,778	11,639	810	37,883	14,246,085
75–84 years	26,451	246,115	28,409	12,553	733	42,923	6,735,040
85 years and over	22,496	227,149	24,513	9,916	565	37,573	2,325,693
Females							
All ages	83,708	936,425	84,266	35,673	3,241	135,161	166,038,755
Under 1 year	7	4,852	38	1	8	52	1,879,703
1–4 years	7	870	36	1	17	59	7,798,370
5–14 years	9	1,315	49	1	29	86	20,100,339
15–24 years	126	5,387	159	45	26	265	20,994,345
25–34 years	471	12,628	593	220	75	914	22,487,065
35–44 years	1,161	20,657	1,281	513	115	2,038	20,690,288
45–54 years	3,074	41,411	3,390	1,417	235	5,249	21,090,497
55–64 years	8,101	98,222	9,497	3,973	533	14,087	21,873,773

65-74 years	15,040	162,354	16,439	7,148	640	24,888	16,246,231
75-84 years	21,684	227,398	22,393	9,722	743	35,008	8,659,334
85 years and over	34,028	361,331	30,391	12,632	820	52,515	4,218,810

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.

¹Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1

²Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

³Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

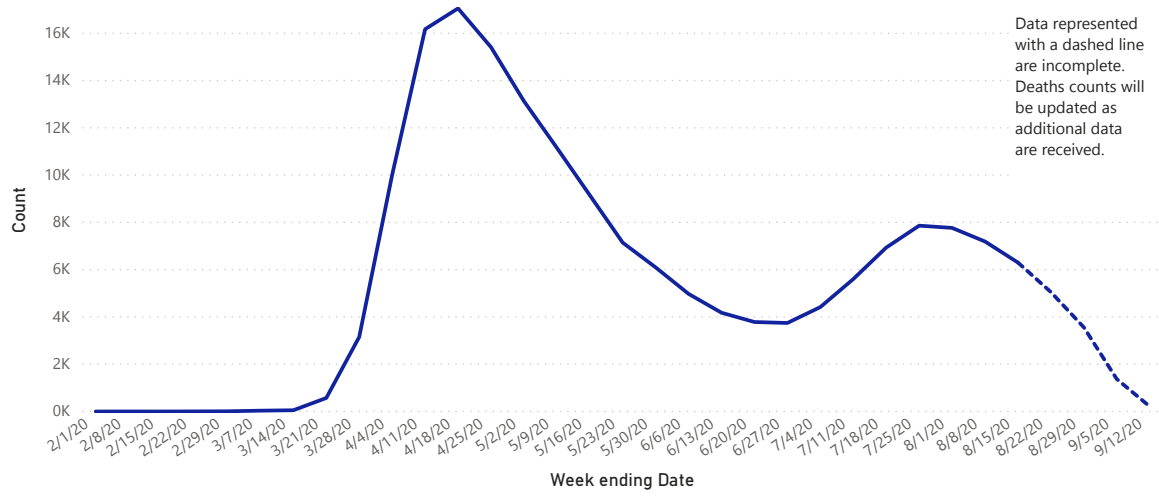
⁴Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

⁵Population is based on 2018 postcensal estimates from the U.S. Census Bureau

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

Select Sex: | Select Measure: | Select Age Group: | Reporting Period:

Provisional Death Counts, by Week Ending Date and Age Group



Data represented with a dashed line are incomplete. Deaths counts will be updated as additional data are received.

NOTE: Provisional death counts are based on death certificate data received and coded by NCHS as of the date of analysis and do not represent all deaths that occurred in that period. Data for the most recent 5 weeks (shown with dashed line) are typically less than 90% complete, with lower levels of completeness in more recent weeks. Death counts are updated as additional deaths are received and coded.

SOURCE: NCHS, National Vital Statistics System. Estimates are based on provisional data.

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 Intentional and unintentional injury, poisoning and other adverse events.*

Updated Renal failure

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	182,095	1,957,766	186,116	81,691	6,687
Healthcare setting, inpatient	118,222	571,307	132,610	64,990	4,047
Healthcare setting, outpatient or emergency room	6,476	116,108	6,217	2,133	240
Healthcare setting, dead on arrival	175	5,612	133	41	11
Decedent's home	9,774	660,569	12,634	1,976	1,444
Hospice facility	5,236	122,904	8,826	2,392	317
Nursing home/long term care facility	39,010	346,491	22,614	9,315	530
Other	3,135	132,633	3,006	819	98
Place of death unknown	67	2,142	76	25	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.


¹Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

²Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

³Counts 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 Intentional and unintentional injury, poisoning and other adverse events.***

Updated Renal failure

		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	85 years and over
Total COVID-19 deaths ² , as of Intentional and unintentional injury, poisoning and other adverse events	U071	179,927	394	1,397	3,635	9,573	22,845	38,635	47,546	55,894
Respiratory diseases		-	-	-	-	-	-	-	-	-
75-84 years	48136	26,946	9,743	344	1,957	37	126	8,403	580	
Ischemic heart disease	I20-I25	20,327	2	28	101	478	1,853	4,201	6,169	7,494
85 years and over	56525	39,515	7,419	218	2,263	15	117	6,526	452	
Cardiac arrest	I46	22,312	57	208	519	1,472	3,274	5,076	5,593	6,113
Cardiac arrhythmia	I44, I45, I47-I49	11,209	11	25	65	260	827	2,027	3,314	4,680
Heart failure	I50	11,818	6	44	87	309	1,008	2,051	3,282	5,031
Cerebrovascular diseases	I60-I69	8,694	7	27	93	309	982	1,973	2,545	2,757
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	9,966	45	112	240	574	1,296	2,225	2,479	2,995
Sepsis	A40-A41	16,222	37	149	395	1,217	2,800	4,484	4,076	3,064
Malignant neoplasms	C00-C97	8,264	27	39	98	308	1,134	2,160	2,483	2,015
Diabetes	E10-E14	29,425	47	194	684	2,017	4,849	7,938	7,860	5,835
Obesity	E65-E68	6,563	93	320	719	1,163	1,640	1,576	812	239

Influenza and pneumonia	J09-J18	77,012	137	636	1,628	4,532	10,863	17,640	20,481	21,093
Alzheimer disease	G30	6,365	0	0	0	2	53	423	1,861	4,026
Chronic lower respiratory diseases	J40-J47	15,487	29	70	161	450	1,665	3,680	4,911	4,520
Adult respiratory distress syndrome	J80	23,910	67	266	687	1,972	4,184	6,336	5,782	4,614
Respiratory failure	J96	61,785	119	451	1,157	3,424	8,237	14,388	17,026	16,980
Respiratory arrest	R09.2	3,652	9	27	71	175	405	757	975	1,233
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	6,408	24	56	132	335	835	1,361	1,718	1,947
Circulatory diseases		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	39,547	18	116	514	1,716	4,786	8,719	10,897	12,780
Condition	ICD10_codes	All ages	0	25	35	45	55	65	75	85

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.

¹Conditions 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.

²Deaths 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.

