




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: September 9, 2020



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 9, 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 9/5/2020**

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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	175,866	1,894,447	180,095	78,446	6,671	283,199	327,167,434
	Under 1 year	19	10,513	99	3	16	131	3,848,208
	1–4 years	14	2,021	70	2	42	124	15,962,067
	5–14 years	29	3,110	94	8	52	167	41,075,169
	15–24 years	315	19,998	402	111	53	655	42,970,800
	25–34 years	1,360	41,370	1,513	606	151	2,404	45,697,774
	35–44 years	3,542	58,523	3,377	1,547	247	5,590	41,277,888
	45–54 years	9,324	107,903	8,747	4,292	577	14,251	41,631,699
	55–64 years	22,254	247,264	23,449	10,694	1,237	36,026	42,272,636
	65–74 years	37,684	374,953	39,742	17,965	1,444	60,671	30,492,316
	75–84 years	46,487	458,477	49,189	21,421	1,469	75,520	15,394,374
	85 years and over	54,838	570,315	53,413	21,797	1,383	87,660	6,544,503
Males								
	All ages	94,969	987,973	98,481	44,155	3,438	152,123	161,128,679
	Under 1 year	13	5,821	62	2	8	81	1,968,505
	1–4 years	7	1,180	34	1	25	65	8,163,697
	5–14 years	20	1,849	50	7	23	86	20,974,830
	15–24 years	195	14,813	249	68	27	400	21,976,455
	25–34 years	904	29,205	941	396	76	1,516	23,210,709
	35–44 years	2,430	38,587	2,150	1,063	132	3,626	20,587,600
	45–54 years	6,362	67,837	5,467	2,935	342	9,164	20,541,202
	55–64 years	14,493	152,280	14,304	6,911	703	22,440	20,398,863
	65–74 years	23,213	217,994	23,890	11,130	807	36,626	14,246,085
	75–84 years	25,562	238,254	27,521	12,089	730	41,609	6,735,040

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
	85 years and over	21,770	220,153	23,813	9,553	565	36,510	2,325,693
Females								
	All ages	80,893	906,406	81,609	34,287	3,232	131,070	166,038,755
	Under 1 year	6	4,677	37	1	8	50	1,879,703
	1–4 years	7	841	36	1	17	59	7,798,370
	5–14 years	9	1,261	44	1	29	81	20,100,339
	15–24 years	120	5,184	153	43	26	255	20,994,345
	25–34 years	456	12,163	572	210	75	888	22,487,065
	35–44 years	1,112	19,933	1,227	484	115	1,964	20,690,288
	45–54 years	2,961	40,063	3,279	1,356	235	5,086	21,090,497
	55–64 years	7,761	94,978	9,144	3,783	533	13,584	21,873,773
	65–74 years	14,470	156,949	15,851	6,834	637	24,044	16,246,231
	75–84 years	20,924	220,213	21,667	9,331	739	33,910	8,659,334
	85 years and over	33,067	350,144	29,599	12,243	818	51,149	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

used on arrival.

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
Decedent's home	9,478	638,397	12,290	1,904	1,444
Hospice facility	4,984	118,860	8,519	2,260	317
Nursing home/long term care facility	37,958	336,830	22,054	9,075	527
Other	3,013	128,087	2,902	777	98
Place of death unknown	62	1,955	73	22	0

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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 9/5/2020.*

Updated September 9, 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	85 years and over
Total COVID-19 deaths ² , as of 9/5/2020	U071	174,470	376	1,362	3,526	9,266	22,073	37,385	46,071	54,401
Respiratory diseases		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	74,332	128	622	1,571	4,363	10,436	16,972	19,779	20,459
Chronic lower respiratory diseases	J40–J47	15,012	28	68	154	436	1,610	3,571	4,744	4,400
Adult respiratory distress syndrome	J80	23,312	63	257	665	1,921	4,063	6,159	5,644	4,538

		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
Respiratory failure	J96	59,602	112	440	1,116	3,287	7,941	13,801	16,430	16,472
Respiratory arrest	R09.2	3,550	8	24	69	170	398	726	954	1,201
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	6,197	23	55	128	321	803	1,313	1,661	1,893
Circulatory diseases		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	38,448	17	111	492	1,660	4,645	8,447	10,594	12,480
Ischemic heart disease	I20-I25	19,696	2	27	100	459	1,798	4,063	5,960	7,285
Cardiac arrest	I46	21,719	54	200	507	1,430	3,158	4,940	5,455	5,974
Cardiac arrhythmia	I44, I45, I47-I49	10,781	10	25	64	248	788	1,938	3,181	4,527
Heart failure	I50	11,434	5	42	87	295	970	1,978	3,172	4,885
Cerebrovascular diseases	I60-I69	8,374	7	26	86	294	945	1,898	2,455	2,662
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	9,569	44	111	230	545	1,241	2,139	2,368	2,891
Sepsis	A40-A41	15,545	34	148	386	1,163	2,664	4,284	3,919	2,947
Malignant neoplasms	C00-C97	8,034	26	39	96	302	1,098	2,097	2,420	1,956
Diabetes	E10-E14	28,483	46	183	655	1,957	4,690	7,687	7,611	5,652
Obesity	E65-E68	6,316	89	308	697	1,122	1,579	1,510	779	231
Alzheimer disease	G30	6,159	0	0	0	2	51	414	1,796	3,896
Vascular and unspecified dementia	F01, F03	19,887	0	0	2	22	298	1,860	5,866	11,839
Renal failure	N17-N19	15,075	18	124	310	987	2,260	3,874	3,951	3,549
Intentional and unintentional injury, poisoning and other adverse events	S00-T98, V01-X59, X60-X84, X85-Y09, Y10-Y36, Y40-Y89, U01-U03	5,692	49	157	203	363	666	1,107	1,358	1,787
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	85,467	291	777	1,745	4,642	11,532	19,988	22,402	24,081

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.

Page last reviewed: September 9, 2020

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 9/5/2020.*

Updated September 9, 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	175,866	1,894,447	180,095	78,446	6,671
Healthcare setting, inpatient	113,925	552,531	128,084	62,307	4,034
Healthcare setting, outpatient or emergency room	6,275	112,361	6,042	2,060	240
Healthcare setting, dead on arrival	171	5,426	131	41	11