

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 30, 2020



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 30, 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 9/26/2020](#)

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	Population ⁵
Total								
	All ages	194,091	2,087,504	197,973	87,714	6,705	310,055	327,167,434
	Under 1 year	20	11,719	105	3	16	138	3,848,208
	1-4 years	15	2,233	75	2	42	130	15,962,067
	5-14 years	32	3,476	106	8	52	182	41,075,169
	15-24 years	362	22,385	455	131	53	735	42,970,800
	25-34 years	1,513	46,033	1,664	673	151	2,641	45,697,774
	35-44 years	3,956	65,059	3,748	1,751	250	6,173	41,277,888
	45-54 years	10,389	119,436	9,754	4,871	577	15,744	41,631,699
	55-64 years	24,772	273,191	26,025	12,079	1,240	39,739	42,272,636
	65-74 years	41,866	413,865	44,018	20,292	1,457	66,808	30,492,316
	75-84 years	51,365	504,433	54,045	23,954	1,480	82,728	15,394,374
	85 years and over	59,801	625,674	57,978	23,950	1,387	95,037	6,544,503
Males								
	All ages	104,896	1,089,340	108,473	49,465	3,455	166,745	161,128,679
	Under 1 year	13	6,487	65	2	8	84	1,968,505
	1-4 years	7	1,305	37	1	25	68	8,163,697
	5-14 years	22	2,062	54	7	23	92	20,974,830
	15-24 years	223	16,595	283	82	27	448	21,976,455
	25-34 years	1,003	32,519	1,033	435	76	1,668	23,210,709
	35-44 years	2,698	42,918	2,383	1,199	133	3,992	20,587,600
	45-54 years	7,063	75,065	6,101	3,323	342	10,111	20,541,202
	55-64 years	16,067	168,282	15,858	7,779	705	24,702	20,398,863
	65-74 years	25,722	240,467	26,462	12,554	813	40,288	14,246,085
	75-84 years	28,239	262,137	30,261	13,530	737	45,589	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	23,839	241,503	25,936	10,553	566	39,703	2,325,693
Females								
	All ages	89,191	998,082	89,493	38,245	3,249	143,302	166,038,755
	Under 1 year	7	5,212	40	1	8	54	1,879,703
	1-4 years	8	928	38	1	17	62	7,798,370
	5-14 years	10	1,414	52	1	29	90	20,100,339
	15-24 years	139	5,789	172	49	26	287	20,994,345
	25-34 years	510	13,512	631	238	75	973	22,487,065
	35-44 years	1,258	22,136	1,365	552	117	2,181	20,690,288
	45-54 years	3,325	44,368	3,652	1,547	235	5,632	21,090,497
	55-64 years	8,705	104,901	10,166	4,300	534	15,035	21,873,773
	65-74 years	16,143	173,389	17,555	7,737	644	26,519	16,246,231
	75-84 years	23,125	242,282	23,782	10,423	743	37,137	8,659,334
	85 years and over	35,961	384,151	32,040	13,396	821	55,332	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

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	10,456	706,014	13,467	2,162	1,445
Hospice facility	5,758	130,766	9,459	2,648	317
Nursing home/long term care facility	41,089	366,483	23,687	9,788	529
Other	3,358	142,170	3,227	897	99
Place of death unknown	69	2,029	61	25	0

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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 9/26/2020.*

Updated September 30, 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 9/26/2020	U071	191,211	426	1,487	3,867	10,221	24,387	41,206	50,585	59,026
Respiratory diseases		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	82,417	150	682	1,751	4,883	11,684	18,954	21,949	22,362
Chronic lower respiratory diseases	J40–J47	16,530	31	73	165	471	1,773	3,978	5,244	4,794
Adult respiratory distress syndrome	J80	25,150	73	278	725	2,095	4,467	6,649	6,090	4,771

		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	66,156	130	481	1,248	3,705	8,892	15,471	18,234	17,993
Respiratory arrest	R09.2	3,896	9	30	77	186	441	803	1,027	1,323
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	6,955	25	61	150	371	913	1,506	1,869	2,060
Circulatory diseases		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	41,893	19	123	549	1,822	5,088	9,256	11,540	13,496
Ischemic heart disease	I20-I25	21,739	2	30	115	523	1,998	4,503	6,608	7,959
Cardiac arrest	I46	23,592	60	225	561	1,568	3,466	5,385	5,902	6,425
Cardiac arrhythmia	I44, I45, I47-I49	12,086	11	28	74	282	898	2,202	3,588	5,003
Heart failure	I50	12,671	6	45	99	336	1,088	2,197	3,526	5,374
Cerebrovascular diseases	I60-I69	9,377	7	28	97	346	1,077	2,128	2,723	2,970
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	10,764	51	116	253	610	1,422	2,419	2,678	3,215
Sepsis	A40-A41	17,613	44	164	432	1,327	3,089	4,879	4,416	3,262
Malignant neoplasms	C00-C97	8,856	32	40	109	334	1,204	2,324	2,658	2,155
Diabetes	E10-E14	31,483	51	208	718	2,158	5,240	8,518	8,387	6,203
Obesity	E65-E68	7,134	97	345	768	1,257	1,788	1,735	892	252
Alzheimer disease	G30	6,874	0	0	0	2	57	453	2,032	4,330
Vascular and unspecified dementia	F01, F03	21,665	0	0	2	24	328	2,035	6,430	12,846
Renal failure	N17-N19	16,966	23	141	361	1,095	2,579	4,395	4,438	3,932
Intentional and unintentional injury, poisoning and other adverse events	S00-T98, V01-X59, X60-X84, X85-Y09, Y10-Y36, Y40-Y89, U01-U03	6,402	50	175	223	396	784	1,249	1,531	1,994
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	95,926	326	873	1,954	5,275	13,049	22,506	25,092	26,843

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

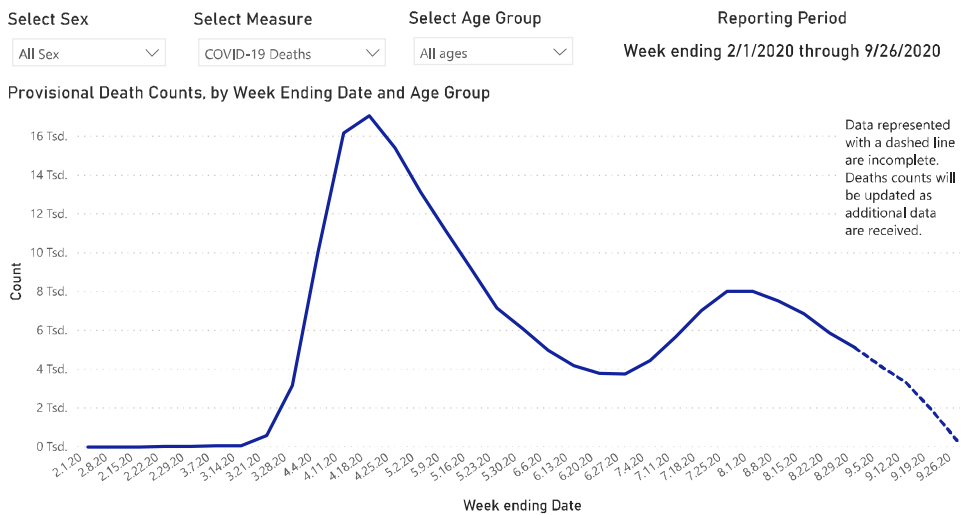
Provisional counts are not final and are subject to change. Counts from previous weeks are continually revised as more records are received and processed.

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.

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



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

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 9/26/2020.*

Updated September 30, 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	194,091	2,087,504	197,973	87,714	6,705
Healthcare setting, inpatient	126,357	610,157	141,425	69,910	4,062
Healthcare setting, outpatient or emergency room	6,819	123,902	6,509	2,239	242
Healthcare setting, dead on arrival	185	5,983	138	45	11