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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: December 30, 2020



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

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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 12/26/2020.*

Updated December 30, 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	301,679	2,902,664	285,361	138,917	6,946	453,994	328,239,523
	Under 1 year	32	16,076	155	6	16	197	3,783,052
	1–4 years	19	2,969	96	3	43	155	15,793,631
	5–14 years	51	4,810	131	9	53	226	40,994,163
	15–24 years	483	30,975	627	172	55	989	42,687,510
	25–34 years	2,087	63,554	2,278	931	156	3,574	45,940,321
	35–44 years	5,398	89,922	5,151	2,429	253	8,342	41,659,144
	45–54 years	14,496	163,931	13,540	6,982	596	21,540	40,874,902
	55–64 years	35,981	377,179	36,543	18,000	1,274	55,570	42,448,537
	65–74 years	64,355	576,792	64,110	32,331	1,520	97,389	31,483,433
	75–84 years	82,646	704,456	79,530	39,615	1,542	123,875	15,969,872
	85 years and over	96,131	872,000	83,200	38,439	1,438	142,137	6,604,958
Males								
	All ages	163,547	1,517,155	158,180	79,338	3,601	245,329	161,657,324
	Under 1 year	22	8,877	93	4	7	118	1,935,117
	1–4 years	11	1,741	47	2	26	82	8,074,090
	5–14 years	32	2,893	69	8	24	117	20,941,023
	15–24 years	292	22,920	378	101	27	593	21,810,359
	25–34 years	1,332	44,885	1,384	572	79	2,213	23,359,180
	35–44 years	3,620	59,148	3,228	1,642	134	5,317	20,792,080

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
	45-54 years	9,748	102,913	8,411	4,702	358	13,739	20,171,966
	55-64 years	23,104	232,235	22,293	11,473	731	34,499	20,499,219
	65-74 years	39,437	335,096	38,744	20,053	853	58,808	14,699,579
	75-84 years	46,138	367,081	45,179	22,909	772	69,053	6,998,223
	85 years and over	39,811	339,366	38,354	17,872	590	60,790	2,376,488
Females								
	All ages	138,124	1,385,399	127,173	59,574	3,344	208,653	166,582,199
	Under 1 year	10	7,171	62	2	9	79	1,847,935
	1-4 years	8	1,228	49	1	17	73	7,719,541
	5-14 years	19	1,917	62	1	29	109	20,053,140
	15-24 years	191	8,052	249	71	28	396	20,877,151
	25-34 years	755	18,667	894	359	77	1,361	22,581,141
	35-44 years	1,778	30,769	1,923	787	119	3,025	20,867,064
	45-54 years	4,746	61,014	5,128	2,279	238	7,799	20,702,936
	55-64 years	12,877	144,935	14,249	6,527	542	21,069	21,949,318
	65-74 years	24,917	241,685	25,365	12,277	667	38,580	16,783,854
	75-84 years	36,506	337,357	34,348	16,704	770	54,819	8,971,649
	85 years and over	56,317	532,604	44,844	20,566	848	81,343	4,228,470

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 2019 postcensal estimates from the U.S. Census Bureau.

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

[See details](#)[See details](#)[See details](#)Something's wrong with one or more fields. [See details](#)

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

Something's wrong with one or more fields. [See details](#)

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.

Microsoft Power BI

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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 12/26/2020.*

Updated December 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	301,679	2,902,664	285,361	138,917	6,946
Healthcare setting, inpatient	192,822	858,962	206,240	110,952	4,210
Healthcare setting, outpatient or emergency room	9,978	172,551	8,892	3,193	253

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
Healthcare setting, dead on arrival	270	8,175	192	73	13
Decedent's home	17,558	982,844	19,459	4,067	1,494
Hospice facility	8,772	177,637	13,255	4,195	331
Nursing home/long term care facility	66,553	502,301	32,719	14,967	543
Other	5,569	197,114	4,512	1,428	100
Place of death unknown	157	3,080	92	42	2

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 2.9 additional conditions or causes per death. The number of mentions for each condition or cause is shown for all deaths and by age groups.

Starting December 23, 2020, the data file will also include the number of deaths that mention the listed conditions. The new column, "COVID-19 Deaths" represents the number of deaths that mention one or more of the conditions indicated. The data file's existing "Number of Mentions" column represents the number of total conditions mentioned for each age group.

For data on the comorbidities and conditions mentioned in COVID-19 deaths, [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 12/26/2020.*

Updated December 30, 2020

Conditions Contributing to Deaths where COVID-19 was listed on the death certificate ¹	ICD-10 codes	Number of Conditions								
		Age Group								
		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 12/26/2020	U071	294,884	571	2,060	5,335	14,239	35,299	62,924	80,680	93,770
Respiratory diseases		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	128,860	193	941	2,431	6,964	17,298	29,935	35,791	35,304

		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
Chronic lower respiratory diseases	J40-J47	26,880	36	96	223	668	2,647	6,447	8,844	7,918
Adult respiratory distress syndrome	J80	34,547	92	355	966	2,740	6,171	9,380	8,612	6,229
Respiratory failure	J96	106,177	164	665	1,760	5,313	13,459	24,913	30,693	29,208
Respiratory arrest	R09.2	6,131	13	41	97	259	661	1,218	1,656	2,186
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	11,342	30	96	239	596	1,483	2,594	3,149	3,155
Circulatory diseases		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	60,967	25	172	740	2,459	7,038	13,220	17,002	20,311
Ischemic heart disease	I20-I25	33,938	6	43	165	764	2,976	6,999	10,559	12,425
Cardiac arrest	I46	33,367	78	306	749	2,139	4,826	7,799	8,540	8,930
Cardiac arrhythmia	I44, I45, I47-I49	20,390	15	42	121	428	1,411	3,628	6,262	8,483
Heart failure	I50	21,354	9	55	136	490	1,603	3,618	6,046	9,397
Cerebrovascular diseases	I60-I69	14,891	12	44	153	506	1,642	3,252	4,331	4,950
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	17,994	71	180	397	954	2,231	3,893	4,773	5,495
Sepsis	A40-A41	27,202	57	233	615	1,885	4,536	7,625	7,190	5,061
Malignant neoplasms	C00-C97	14,350	40	60	167	496	1,869	3,767	4,376	3,575
Diabetes	E10-E14	47,351	67	275	989	2,991	7,482	12,744	13,108	9,695
Obesity	E65-E68	11,148	131	464	1,064	1,860	2,763	2,884	1,566	416
Alzheimer disease	G30	11,554	0	0	2	6	89	758	3,313	7,386
Vascular and unspecified dementia	F01, F03	32,754	0	1	3	34	459	2,922	9,719	19,616
Renal failure	N17-N19	26,842	32	194	517	1,534	3,833	6,811	7,394	6,525
Intentional and unintentional injury, poisoning and other adverse events	S00-T98, V01-X59, X60-X84, X85-Y09, Y10-Y36, Y40-Y89, U01-U03	10,842	109	280	362	593	1,244	2,038	2,650	3,566

		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
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	157,444	467	1,297	2,915	7,830	19,946	36,284	43,024	45,673

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.