



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Weekly Updates by Select Demographic and Geographic Characteristics

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

Contents

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 Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of May 19, 2021. 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. Sex and age](#)
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For the Index of Provisional COVID-19 Mortality Surveillance and Ad-hoc Data Files, [click here](#).

The provisional counts for coronavirus disease 2019 (COVID-19) deaths are based on a current flow of mortality data in the National Vital Statistics System. National provisional counts include deaths occurring within the 50 states and the District of Columbia that have been received and coded as of the date specified. It is important to note that it can take several weeks for death records to be submitted to National Center for Health Statistics (NCHS), processed, coded, and tabulated. Therefore, the data shown on this page may be incomplete, and will likely not include all deaths that occurred during a given time period, especially for the more recent time periods. Death counts for earlier weeks are continually revised and may increase or decrease as new and updated death certificate data are received from the states by NCHS. COVID-19 death counts shown here may differ from other published sources, as data currently are lagged by an average of 1–2 weeks.

Sex and Age

Table 1 has counts of deaths involving COVID-19 and other select causes of death by time-period in which the death occurred, sex and age group. For data on deaths involving COVID-19 by month, year, jurisdiction, sex, and age, [Click here to download](#). This data file contains two sets of age groups: (1) age-groups consistent with those used across CDC COVID-19 surveillance pages, and (2) age groups that are routinely included in NCHS morality reports. 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. For data on deaths involving COVID-19 by week, sex, and age (by NCHS age groups), [Click here to download](#). 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 time-period, jurisdiction of occurrence, sex and age-group.

Data as of:
5/19/2021

State			Sex		Age Group			
United States			All		All			
Year in which death occurred	Sex	Age Group	All Deaths involving COVID-19 [1]	Deaths from All Causes	Deaths involving Pneumonia [2]	Deaths involving COVID-19 and Pneumonia [2]	All Deaths involving Influenza [3]	Deaths involving Pneumonia, Influenza, or COVID-19 [4]
2020/2021	All Sexes	0-17 years	295	44,028	733	58	182	1,152
2020/2021	All Sexes	18-29 years	2,204	83,557	2,388	974	151	3,757
2020/2021	All Sexes	30-39 years	6,403	119,154	5,846	2,964	320	9,582
2020/2021	All Sexes	40-49 years	17,271	179,091	14,665	8,507	498	23,856
2020/2021	All Sexes	50-64 years	89,227	751,024	81,671	47,372	2,163	125,352
2020/2021	All Sexes	65-74 years	127,426	918,053	116,805	68,456	1,964	177,420
2020/2021	All Sexes	75-84 years	158,234	1,110,266	140,574	80,479	1,988	220,042
2020/2021	All Sexes	85 years and over	172,985	1,348,868	139,168	72,274	1,863	241,505
2020/2021	All Sexes	All Ages	574,045	4,554,041	501,850	281,084	9,129	802,666
2020/2021	Female	0-17 years	129	18,252	329	26	83	515
2020/2021	Female	18-29 years	846	22,497	949	403	73	1,462
2020/2021	Female	30-39 years	2,277	38,360	2,252	1,058	162	3,626
2020/2021	Female	40-49 years	5,991	65,113	5,625	2,967	220	8,849
2020/2021	Female	50-64 years	31,970	286,370	31,567	17,226	909	47,115
2020/2021	Female	65-74 years	49,594	383,519	46,160	26,152	863	70,355

Yearly Monthly Total

NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and may 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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

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

[2] Counts of deaths involving pneumonia (J12.0-J18.9) include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

[3] Counts of deaths involving influenza (J09-J11) include deaths with pneumonia or COVID-19 also listed as a cause of death.

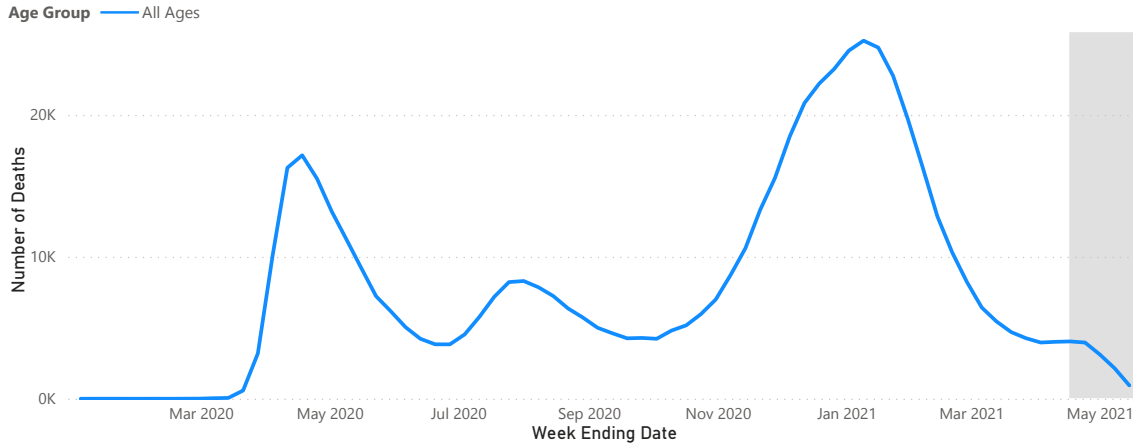
[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

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

Select Sex: | Select Measure: | Select Age Group: | Reporting Period: **Week ending 1/4/2020 through 5/15/2021**

Data represented in the gray shaded area are incomplete. Deaths counts will be updated as additional data are received.

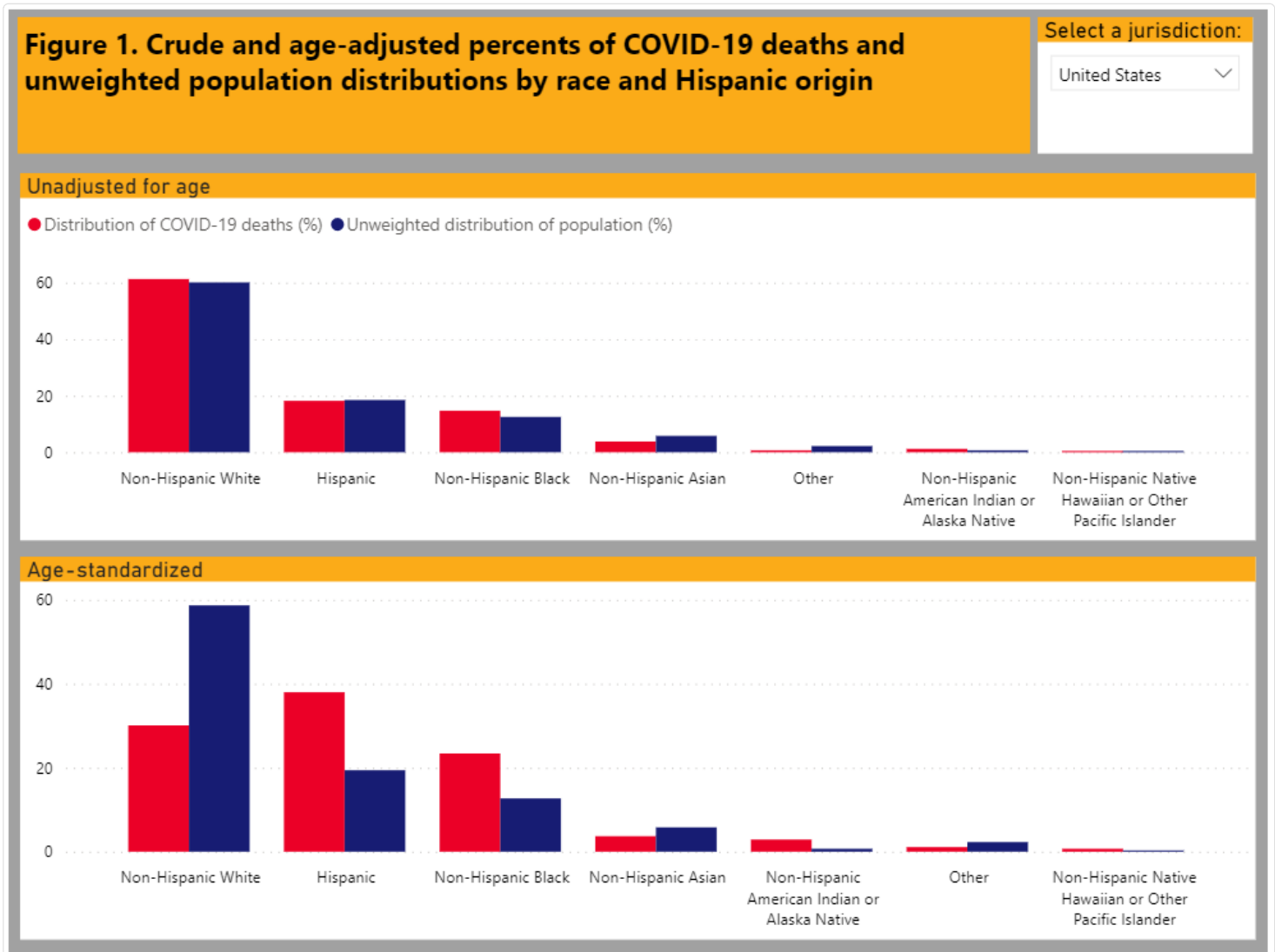
Provisional Death Counts, by Week Ending Date and Age Group



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 in the gray shaded area) 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.

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 page.



Place of death

Table 2 presents death counts involving COVID-19 and other select causes of death by time-period in which the death occurred, and the place of death. For data on deaths involving COVID-19 by time-period, jurisdiction and the place of death, [Click here to download](#). For data on deaths involving COVID-19 by time-period, jurisdiction, place of death, and age group, [Click here to download](#).

Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by time-period, jurisdiction of occurrence, and place of death.

Data as of:
5/19/2021

State		Place of Death		All Deaths involving COVID-19 [1]	Deaths from All Causes	Deaths involving Pneumonia [2]	Deaths involving COVID-19 and Pneumonia [2]	All Deaths involving Influenza [3]	Deaths involving Pneumonia, Influenza, or COVID-19 [4]
Year in which death occurred	State	Place of Death							
2020/2021	United States	Decedent's home		40,533	1,521,975	33,919	10,564	1,733	64,764
2020/2021	United States	Healthcare setting, dead on arrival		521	12,746	317	137	17	718
2020/2021	United States	Healthcare setting, inpatient		375,520	1,415,959	373,339	228,073	5,775	526,233
2020/2021	United States	Healthcare setting, outpatient or emergency room		18,618	269,901	14,607	6,081	390	27,517
2020/2021	United States	Hospice facility		16,653	268,302	21,544	8,238	404	30,349
2020/2021	United States	Nursing home/long term care facility		110,275	754,148	49,924	24,639	655	136,178
2020/2021	United States	Other		11,741	307,804	8,094	3,298	152	16,669
2020/2021	United States	Place of death unknown		196	3,316	117	60	3	255
2020/2021	United States	Total - All Places of Death		574,057	4,554,151	501,861	281,090	9,129	802,683

Yearly
Monthly
Total

NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and may 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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

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[3] Counts of deaths involving influenza (J09-J11) 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.

Comorbidities and other conditions

Table 3 shows the types of health conditions and contributing causes mentioned in conjunction with deaths involving coronavirus disease 2019 (COVID-19). The number of deaths that mention one or more of the conditions indicated is shown for all deaths involving COVID-19 and by age groups. For over 5% of these deaths, COVID-19 was the only cause

mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death. For data on deaths involving COVID-19 by time-period, jurisdiction, and other health conditions, [Click here to download](#).

Table 3. Number of COVID-19 deaths with contributing conditions, by time-period, jurisdiction of occurrence, and age-group.

Data as of:
5/16/2021

State	Attribute	Condition Group	Condition								
United States	COVID-19 Deaths	All	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
Year in which death occurred	Conditions contributing to deaths where COVID-19 was listed on the death certificate [1]										
2020/2021	Influenza and pneumonia		262,174	388	1,801	4,778	14,255	36,386	63,492	73,678	67,391
2020/2021	Chronic lower respiratory diseases		50,545	55	167	398	1,241	5,087	12,382	16,904	14,310
2020/2021	Adult respiratory distress syndrome		59,603	158	622	1,664	4,972	11,358	17,161	14,652	9,015
2020/2021	Respiratory failure		214,837	299	1,260	3,486	10,911	28,879	52,753	62,246	54,999
2020/2021	Respiratory arrest		12,064	18	71	177	513	1,359	2,484	3,358	4,084
2020/2021	Other diseases of the respiratory system		24,022	68	205	484	1,308	3,443	5,877	6,728	5,909
2020/2021	Hypertensive diseases		112,524	37	329	1,386	4,643	13,284	25,132	31,638	36,074
2020/2021	Ischemic heart disease		62,447	12	79	338	1,528	5,696	13,273	19,697	21,823
2020/2021	Cardiac arrest		69,405	128	567	1,531	4,501	10,420	16,654	18,152	17,451
2020/2021	Cardiac arrhythmia		42,463	26	89	235	888	3,155	7,862	13,215	16,993
2020/2021	Heart failure		43,682	20	107	316	1,042	3,309	7,720	12,707	18,460
2020/2021	Cerebrovascular diseases		28,301	30	84	290	1,010	3,069	6,231	8,231	9,355
2020/2021	Other diseases of the circulatory system		36,630	123	327	733	1,952	4,750	8,292	9,963	10,489
2020/2021	Sepsis		54,715	115	444	1,245	3,794	9,470	15,705	14,530	9,411
2020/2021	Malignant neoplasms		27,194	65	109	310	1,003	3,512	7,248	8,420	6,527
2020/2021	Diabetes		91,277	109	521	1,855	5,807	14,807	25,230	25,400	17,547
2020/2021	Obesity		22,774	224	934	2,020	3,806	5,826	6,029	3,136	799

Yearly

Monthly

Total

Microsoft Power BI

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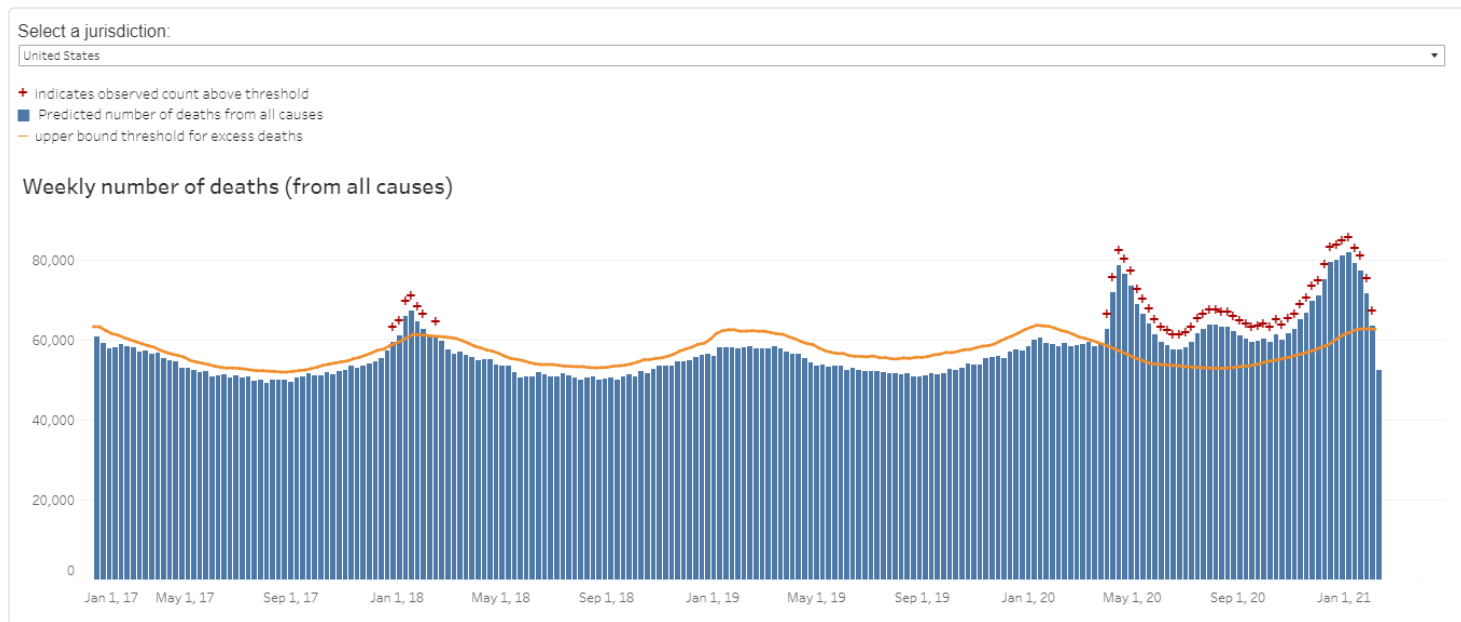
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g., 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. Some deaths involve more than one of the same condition category (e.g. deaths involving unintentional and intentional injury often include two or more injury ICD-10 codes), the number of mentions presented on the table above represents the number of instances where the condition was cited on the death certificate. Number of deaths and number of mentions 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 National Vital Statistics System (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 recent periods 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. United States death counts include the 50 states, plus the District of Columbia and New York City. New York state estimates exclude New York City.

[1] 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.



Additional data (leading causes of death, county, etc.)

Leading causes of death



Weekly final data for 2014–2019

Weekly counts of leading causes of death based on final underlying cause mortality data for years 2014–2019, by state.



Weekly provisional data for 2020–2021

Weekly counts of leading causes of death based on provisional underlying cause mortality data for 2020–2021, by state.



Monthly final data for 2014–2019

Monthly counts of leading causes of death, including injury-related causes, based on final underlying cause mortality data for years 2014–2019, for the U.S.



Monthly provisional data for 2020–2021

Monthly counts of leading causes of death, including injury-related causes, based on provisional underlying cause mortality data for 2020–2021, for the U.S.

County-level data



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

Deaths involving COVID-19 and total deaths per county. Counties included in this file had 10 or more COVID-19 deaths at the time of analysis.



Provisional COVID-19 Deaths by County and Race and Hispanic Origin

Deaths involving COVID-19 and total deaths per county, by race and Hispanic origin for counties with more than 100 COVID-19 deaths.

Urban/Rural Status



Provisional COVID-19 Deaths by Urbanicity and Week

Deaths involving COVID-19 and total deaths, by week and urbanicity. Urbanicity is defined as metropolitan and non-metropolitan, using the NCHS Urban-Rural classification scheme.

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.

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