



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)

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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 April 28, 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.

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## 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:**  
4/28/2021

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	277	41,811	703	54	179	1,105
2020/2021	All Sexes	18-29 years	2,097	79,315	2,286	927	150	3,594
2020/2021	All Sexes	30-39 years	6,089	113,155	5,554	2,799	318	9,140
2020/2021	All Sexes	40-49 years	16,507	170,253	14,018	8,113	496	22,838
2020/2021	All Sexes	50-64 years	85,450	716,128	78,184	45,311	2,149	120,139
2020/2021	All Sexes	65-74 years	123,309	876,720	112,351	66,084	1,956	171,216
2020/2021	All Sexes	75-84 years	154,212	1,062,915	136,156	78,396	1,977	213,676
2020/2021	All Sexes	85 years and over	169,545	1,295,280	135,160	70,740	1,858	235,588
2020/2021	All Sexes	All Ages	557,486	4,355,577	484,412	272,424	9,083	777,296
2020/2021	Female	0-17 years	119	17,323	317	25	82	493
2020/2021	Female	18-29 years	798	21,384	910	384	73	1,394
2020/2021	Female	30-39 years	2,143	36,450	2,136	989	161	3,444
2020/2021	Female	40-49 years	5,699	61,888	5,373	2,819	220	8,453
2020/2021	Female	50-64 years	30,473	272,870	30,137	16,375	906	45,037
2020/2021	Female	65-74 years	47,810	366,122	44,275	25,125	859	67,711

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.

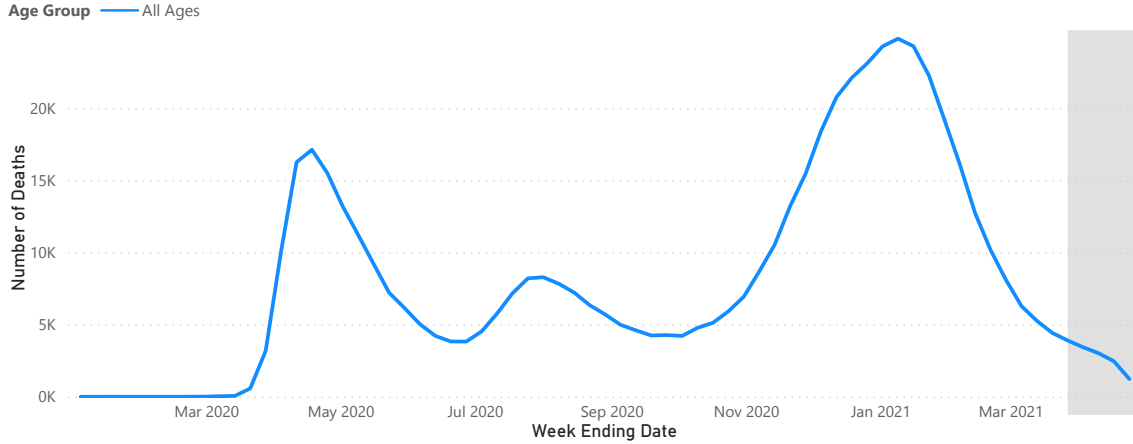
[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

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

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

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

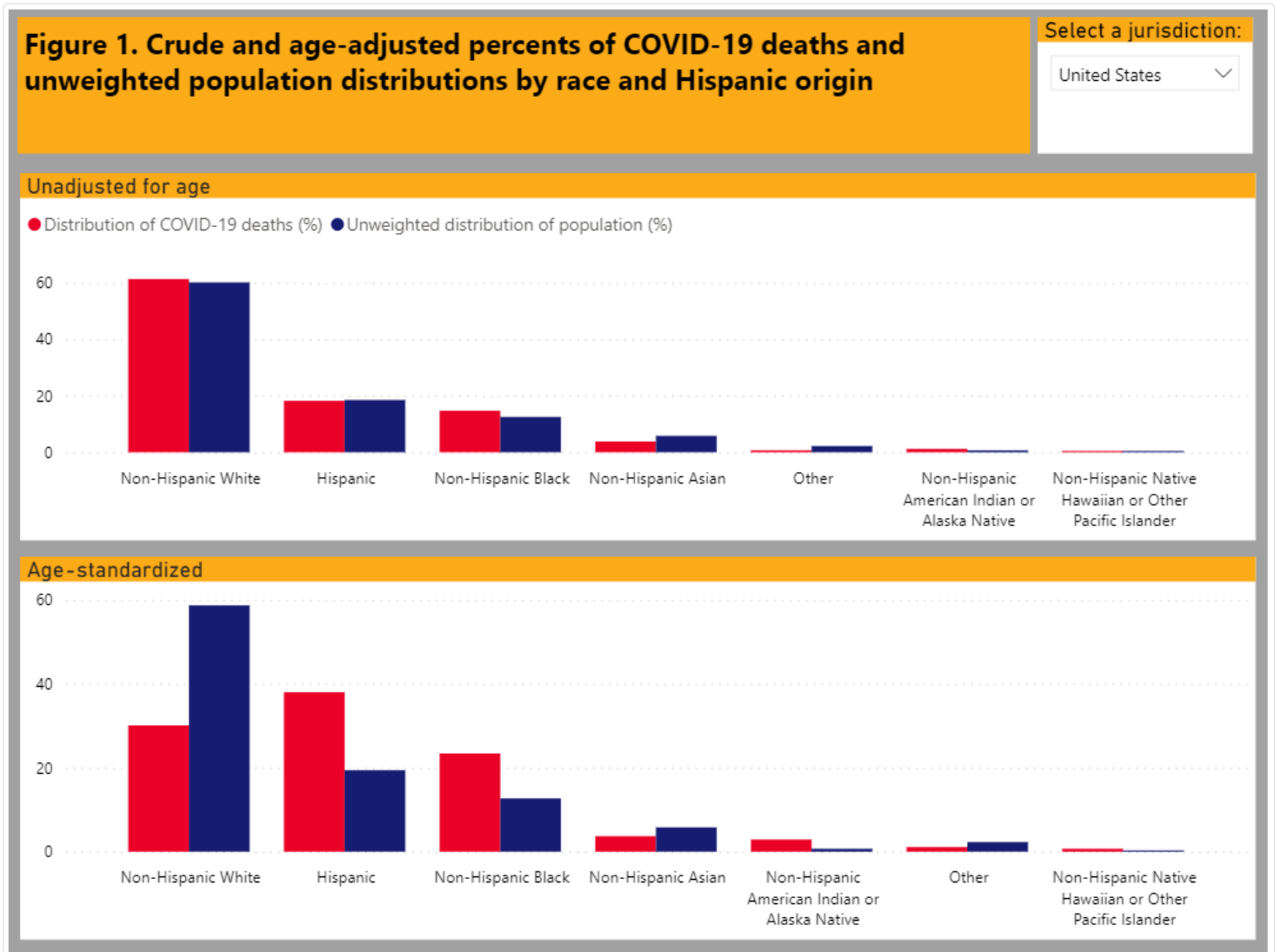
#### Provisional Death Counts, by Week Ending Date and Age Group



**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:**  
4/28/2021

State		Place of Death						
United States		All						
Year in which death occurred	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]
2020/2021	United States	Decedent's home	38,655	1,451,897	32,481	10,049	1,726	61,957
2020/2021	United States	Healthcare setting, dead on arrival	490	12,161	308	132	17	683
2020/2021	United States	Healthcare setting, inpatient	364,043	1,354,724	360,074	220,815	5,744	508,727
2020/2021	United States	Healthcare setting, outpatient or emergency room	18,053	258,028	14,150	5,918	386	26,656
2020/2021	United States	Hospice facility	16,064	255,582	20,731	7,968	401	29,214
2020/2021	United States	Nursing home/long term care facility	108,597	726,357	48,749	24,295	655	133,670
2020/2021	United States	Other	11,397	293,619	7,813	3,193	151	16,148
2020/2021	United States	Place of death unknown	195	3,292	116	59	3	254
2020/2021	United States	Total - All Places of Death	557,494	4,355,660	484,422	272,429	9,083	777,309

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.

## 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:**  
4/25/2021

State		Attribute	Condition Group			Condition					
United States		COVID-19 Deaths	All			All					
Year in which death occurred	Conditions contributing to deaths where COVID-19 was listed on the death certificate [1]	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	
2020/2021	Influenza and pneumonia	254,384	370	1,692	4,548	13,587	34,936	61,359	71,854	66,033	↓
2020/2021	Chronic lower respiratory diseases	49,170	48	154	383	1,197	4,866	12,005	16,471	14,045	↓
2020/2021	Adult respiratory distress syndrome	58,009	155	592	1,596	4,755	10,961	16,680	14,337	8,932	↓
2020/2021	Respiratory failure	208,673	286	1,207	3,335	10,406	27,687	51,017	60,742	53,990	↓
2020/2021	Respiratory arrest	11,772	18	69	172	495	1,316	2,395	3,291	4,016	↓
2020/2021	Other diseases of the respiratory system	23,125	64	192	463	1,237	3,273	5,637	6,515	5,744	↓
2020/2021	Hypertensive diseases	109,768	34	313	1,331	4,449	12,821	24,470	30,936	35,413	↓
2020/2021	Ischemic heart disease	60,700	12	75	317	1,453	5,438	12,854	19,172	21,378	↓
2020/2021	Cardiac arrest	67,430	125	548	1,471	4,299	10,036	16,112	17,738	17,100	↓
2020/2021	Cardiac arrhythmia	41,252	25	86	220	847	3,013	7,602	12,855	16,604	↓
2020/2021	Heart failure	42,348	19	103	303	988	3,167	7,438	12,315	18,014	↓
2020/2021	Cerebrovascular diseases	27,498	28	76	273	972	2,944	6,025	8,022	9,157	↓
2020/2021	Other diseases of the circulatory system	35,240	116	308	696	1,844	4,502	7,938	9,647	10,189	↓
2020/2021	Sepsis	52,986	107	425	1,201	3,636	9,113	15,162	14,133	9,208	↓
2020/2021	Malignant neoplasms	26,194	64	102	298	956	3,364	6,952	8,125	6,333	↓
2020/2021	Diabetes	88,925	105	500	1,786	5,593	14,294	24,561	24,876	17,209	↓
2020/2021	Obesity	21,891	212	879	1,923	3,618	5,574	5,849	3,057	779	↓

Yearly
Monthly
Total

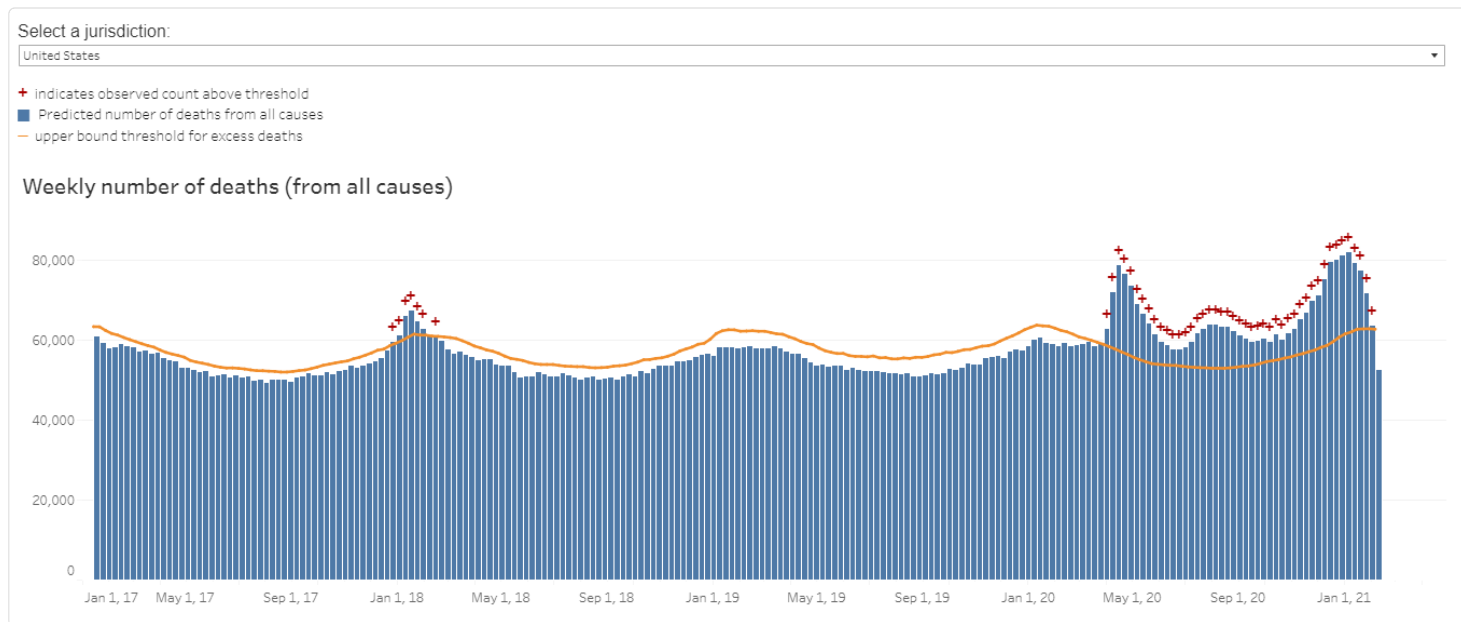
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g., 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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