



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 5, 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:**  
5/5/2021

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	282	42,429	709	54	179	1,116
2020/2021	All Sexes	18-29 years	2,125	80,374	2,318	941	150	3,640
2020/2021	All Sexes	30-39 years	6,165	114,719	5,625	2,841	320	9,246
2020/2021	All Sexes	40-49 years	16,694	172,506	14,179	8,211	496	23,088
2020/2021	All Sexes	50-64 years	86,390	725,235	79,063	45,793	2,156	121,482
2020/2021	All Sexes	65-74 years	124,326	887,802	113,519	66,669	1,959	172,817
2020/2021	All Sexes	75-84 years	155,247	1,075,730	137,298	78,931	1,979	215,320
2020/2021	All Sexes	85 years and over	170,365	1,309,717	136,213	71,091	1,861	237,112
2020/2021	All Sexes	All Ages	561,594	4,408,512	488,924	274,531	9,100	783,821
2020/2021	Female	0-17 years	124	17,581	321	25	82	502
2020/2021	Female	18-29 years	811	21,648	923	391	73	1,413
2020/2021	Female	30-39 years	2,171	36,928	2,165	1,010	162	3,481
2020/2021	Female	40-49 years	5,762	62,684	5,433	2,852	220	8,543
2020/2021	Female	50-64 years	30,848	276,384	30,490	16,577	908	45,565
2020/2021	Female	65-74 years	48,269	370,796	44,784	25,382	860	68,422

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.

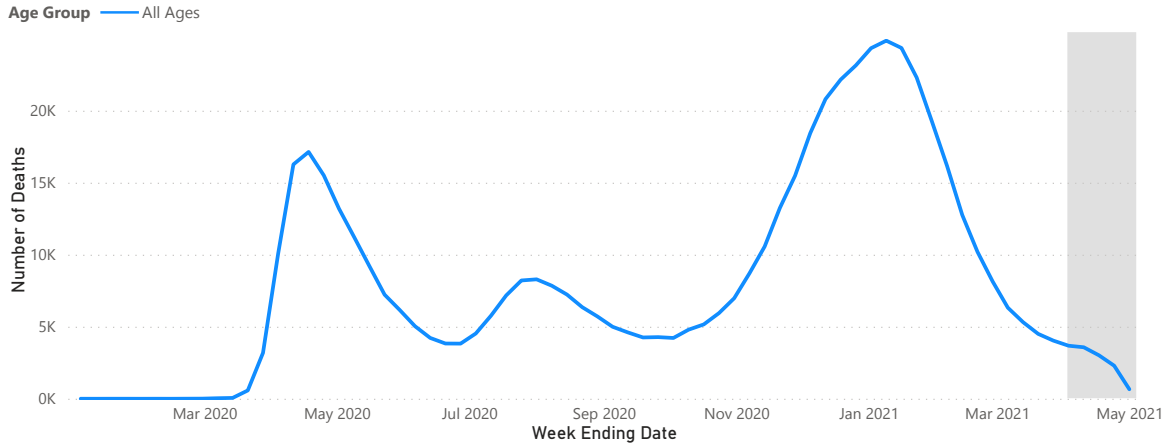
[4] Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

### 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 5/1/2021**

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

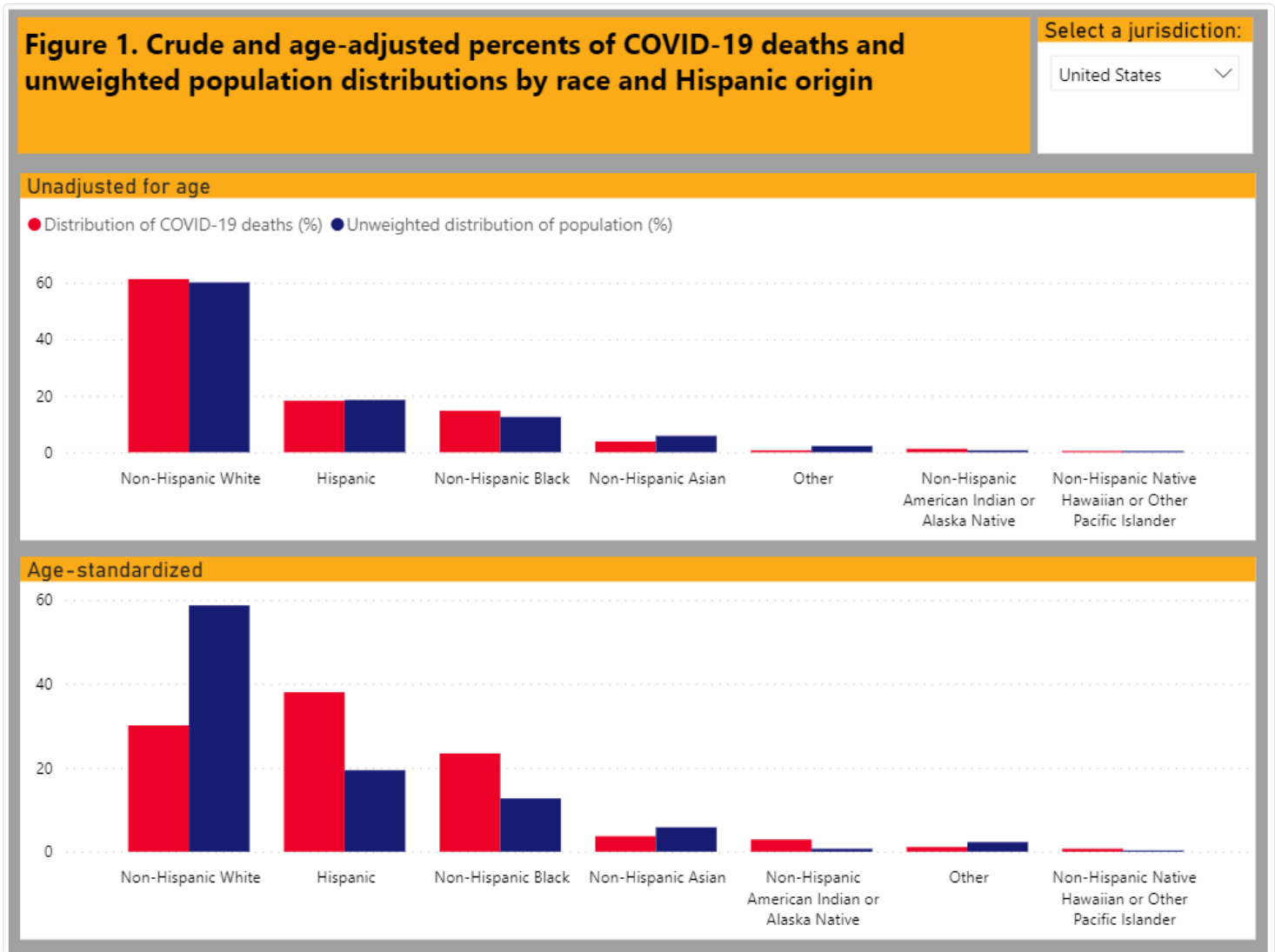
#### Provisional Death Counts, by Week Ending Date and Age Group



**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:**  
5/5/2021

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		39,181	1,470,517	32,860	10,171	1,730	62,743
2020/2021	United States	Healthcare setting, dead on arrival		498	12,308	310	132	17	693
2020/2021	United States	Healthcare setting, inpatient		366,848	1,371,123	363,525	222,593	5,755	513,213
2020/2021	United States	Healthcare setting, outpatient or emergency room		18,210	261,133	14,260	5,961	387	26,880
2020/2021	United States	Hospice facility		16,204	259,039	20,927	8,026	402	29,493
2020/2021	United States	Nursing home/long term care facility		109,000	733,832	49,058	24,384	655	134,293
2020/2021	United States	Other		11,466	297,344	7,877	3,209	151	16,265
2020/2021	United States	Place of death unknown		196	3,306	117	60	3	255
2020/2021	United States	Total - All Places of Death		561,603	4,408,602	488,934	274,536	9,100	783,835

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:**  
5/2/2021

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	257,022	377	1,735	4,633	13,814	35,407	62,064	72,506	66,481	
2020/2021	Chronic lower respiratory diseases	49,659	52	160	386	1,211	4,933	12,154	16,627	14,135	
2020/2021	Adult respiratory distress syndrome	58,537	156	606	1,624	4,830	11,094	16,835	14,429	8,962	
2020/2021	Respiratory failure	210,769	290	1,223	3,383	10,578	28,094	51,591	61,292	54,314	
2020/2021	Respiratory arrest	11,866	18	70	173	502	1,329	2,417	3,312	4,045	
2020/2021	Other diseases of the respiratory system	23,427	66	195	469	1,262	3,334	5,713	6,580	5,808	
2020/2021	Hypertensive diseases	110,763	35	322	1,352	4,517	12,974	24,718	31,200	35,644	
2020/2021	Ischemic heart disease	61,327	12	76	322	1,475	5,536	12,991	19,366	21,548	
2020/2021	Cardiac arrest	68,105	127	554	1,488	4,372	10,177	16,280	17,876	17,230	
2020/2021	Cardiac arrhythmia	41,680	25	87	225	861	3,061	7,687	12,977	16,757	
2020/2021	Heart failure	42,831	20	104	309	1,004	3,222	7,532	12,466	18,173	
2020/2021	Cerebrovascular diseases	27,788	29	78	280	986	2,985	6,104	8,092	9,233	
2020/2021	Other diseases of the circulatory system	35,720	118	318	705	1,875	4,582	8,061	9,760	10,300	
2020/2021	Sepsis	53,604	109	428	1,214	3,691	9,245	15,359	14,281	9,276	
2020/2021	Malignant neoplasms	26,525	64	104	304	965	3,407	7,041	8,249	6,391	
2020/2021	Diabetes	89,748	107	508	1,810	5,658	14,473	24,796	25,070	17,325	
2020/2021	Obesity	22,204	217	900	1,955	3,685	5,657	5,909	3,095	786	

Yearly Monthly Total

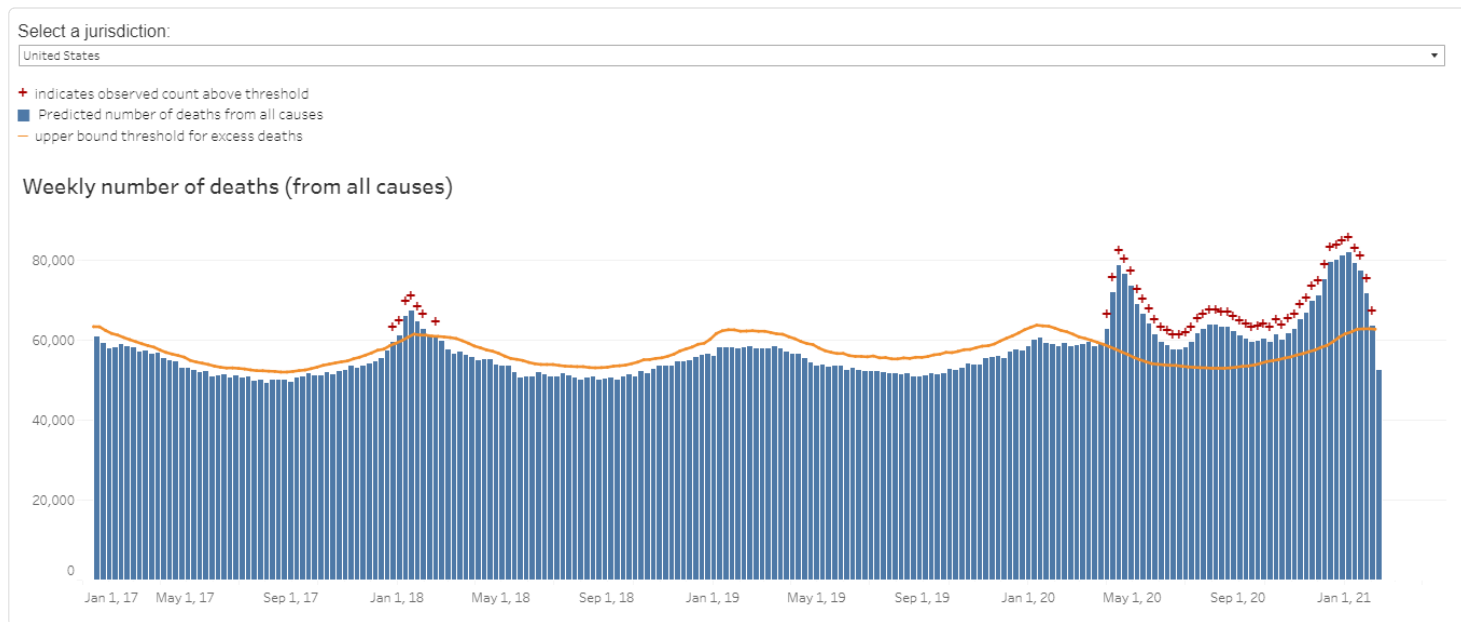
NOTE: Empty data cells represent counts between 1-9 that have been suppressed in accordance with NCHS confidentiality standards. Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICD-10). Deaths involving more than one condition (e.g.,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