



## 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 16, 2020



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of December 16, 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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## 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 12/12/2020.\*

Updated December 16, 2020

Sex	Age group	All Deaths involving COVID-19 (U07.1) <sup>1</sup>	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9) <sup>2</sup>	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9) <sup>2</sup>	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11) <sup>3</sup>	Deaths involving Pneumonia, Influenza, or COVID-19 (U07.1 or J09–J18.9) <sup>4</sup>	Population <sup>5</sup>
<b>Total</b>								
	All ages	<b>276,061</b>	2,777,572	267,901	126,586	6,897	423,212	328,239,523
	Under 1 year	<b>30</b>	15,507	149	5	16	190	3,783,052
	1–4 years	<b>18</b>	2,880	92	2	42	150	15,793,631
	5–14 years	<b>47</b>	4,636	125	7	53	218	40,994,163
	15–24 years	<b>458</b>	29,860	603	162	55	950	42,687,510
	25–34 years	<b>1,969</b>	61,151	2,180	879	155	3,409	45,940,321
	35–44 years	<b>5,101</b>	86,536	4,895	2,275	253	7,943	41,659,144
	45–54 years	<b>13,580</b>	157,591	12,826	6,492	595	20,399	40,874,902
	55–64 years	<b>33,378</b>	361,688	34,575	16,645	1,269	52,352	42,448,537
	65–74 years	<b>59,056</b>	551,869	60,107	29,461	1,508	90,948	31,483,433
	75–84							

years	<b>75,165</b>	673,051	74,311	35,765	1,523	115,012	15,969,872
85 years and over	<b>87,259</b>	832,803	78,038	34,893	1,428	131,641	6,604,958
<b>Males</b>							
All ages	<b>149,562</b>	1,451,205	148,124	72,104	3,568	228,500	161,657,324
Under 1 year	<b>20</b>	8,565	91	3	7	115	1,935,117
1–4 years	<b>10</b>	1,683	45	1	25	79	8,074,090
5–14 years	<b>29</b>	2,791	65	6	24	112	20,941,023
15–24 years	<b>275</b>	22,074	366	95	27	570	21,810,359
25–34 years	<b>1,267</b>	43,250	1,334	550	79	2,120	23,359,180
35–44 years	<b>3,422</b>	56,922	3,068	1,531	134	5,070	20,792,080
45–54 years	<b>9,148</b>	98,955	7,970	4,383	357	13,016	20,171,966
55–64 years	<b>21,464</b>	222,693	21,088	10,626	726	32,499	20,499,219
65–74 years	<b>36,172</b>	320,477	36,266	18,258	844	54,854	14,699,579
75–84 years	<b>41,789</b>	350,225	42,032	20,550	761	63,908	6,998,223
85 years and over	<b>35,966</b>	323,570	35,799	16,101	584	56,157	2,376,488
<b>Females</b>							
All ages	<b>126,491</b>	1,326,266	119,768	54,476	3,328	194,700	166,582,199
Under 1 year	<b>10</b>	6,917	58	2	9	75	1,847,935
1–4 years	<b>8</b>	1,197	47	1	17	71	7,719,541
5–14 years	<b>18</b>	1,845	60	1	29	106	20,053,140
15–24 years	<b>183</b>	7,783	237	67	28	380	20,877,151
25–34 years	<b>702</b>	17,899	846	329	76	1,289	22,581,141
35–44 years	<b>1,679</b>	29,609	1,827	744	119	2,873	20,867,064
45–54 years	<b>4,430</b>	58,632	4,855	2,108	238	7,381	20,702,936
55–64 years	<b>11,914</b>	138,986	13,486	6,019	542	19,851	21,949,318

65–74 years	22,883	231,381	23,840	11,202	664	36,093	16,783,854
75–84 years	33,373	322,809	32,275	15,212	762	51,100	8,971,649
85 years and over	51,291	509,208	42,237	18,791	844	75,481	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.

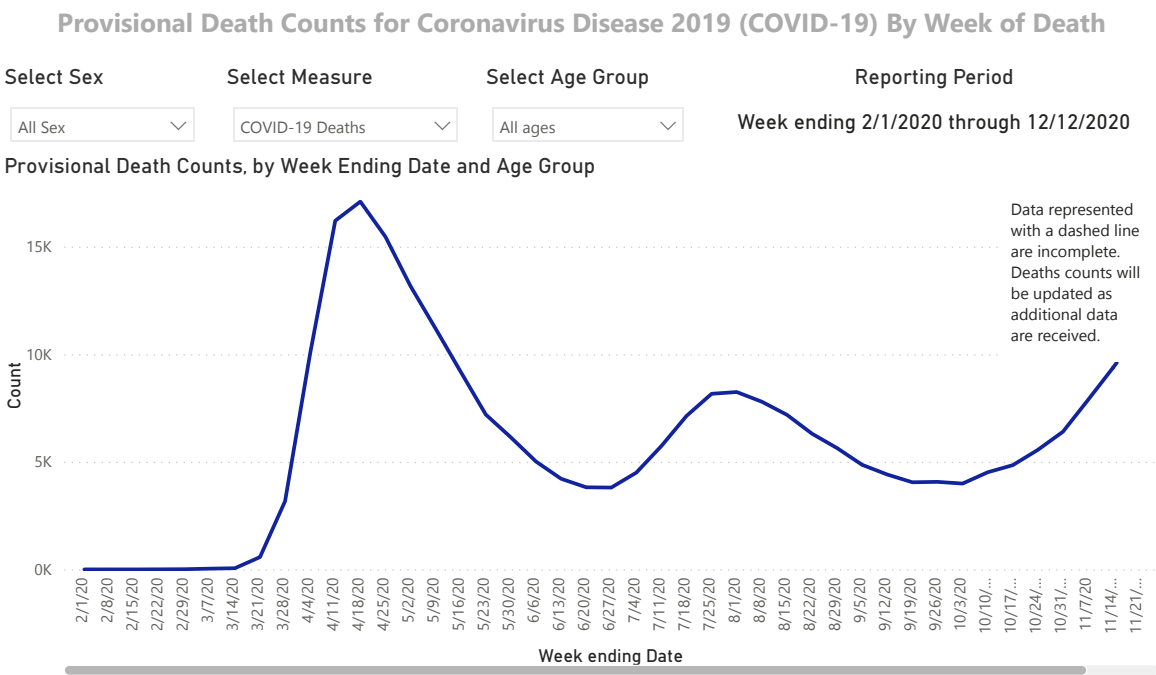
<sup>1</sup>Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

<sup>2</sup>Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

<sup>3</sup>Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

<sup>4</sup>Deaths with confirmed or presumed COVID-19, pneumonia, or influenza, coded to ICD-10 codes U07.1 or J09-18.9.

<sup>5</sup>Population is based on 2019 postcensal estimates from the U.S. Census Bureau.



**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.

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 12/12/2020.\*

Updated December 16, 2020

Place of death	All Deaths involving COVID-19 (U07.1) <sup>1</sup>	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9) <sup>2</sup>	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9) <sup>2</sup>	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11) <sup>3</sup>
Total	<b>276,061</b>	2,777,572	267,901	126,586	6,897
Healthcare setting, inpatient	<b>176,943</b>	818,425	193,022	101,014	4,182
Healthcare setting, outpatient or emergency room	<b>9,245</b>	165,123	8,429	2,968	251
Healthcare setting, dead on arrival	<b>251</b>	7,864	180	69	13
Decedent's home	<b>15,853</b>	941,287	18,379	3,578	1,479
Hospice facility	<b>8,103</b>	171,180	12,590	3,853	327
Nursing home/long term care facility	<b>60,471</b>	480,370	30,938	13,770	543
Other	<b>5,034</b>	189,234	4,262	1,293	100
Place of death unknown	<b>161</b>	4,089	101	41	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.

<sup>1</sup>Deaths with confirmed or presumed COVID-19, coded to ICD-10 code U07.1.

<sup>2</sup>Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

<sup>3</sup>Counts of deaths involving influenza include deaths with pneumonia or COVID-19 also listed as a cause of death.

## 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 12/12/2020.\*

**Updated December 16, 2020**

[illegible]

diseases	I60–I69	13,715	11	42	145	484	1,528	3,016	3,980	4,508
Other diseases of the circulatory system	I00–I09, I26–I43, I51, I52, I70–I99	16,352	65	167	373	898	2,060	3,563	4,257	4,969
<b>Sepsis</b>	A40–A41	25,114	56	229	583	1,768	4,240	7,013	6,584	4,641
<b>Malignant neoplasms</b>	C00–C97	13,121	39	58	154	458	1,723	3,449	3,969	3,271
<b>Diabetes</b>	E10–E14	43,800	64	263	942	2,832	7,005	11,745	12,029	8,920
<b>Obesity</b>	E65–E68	10,266	124	444	1,007	1,739	2,550	2,614	1,410	378
<b>Alzheimer disease</b>	G30	10,546	0	0	1	6	81	702	3,029	6,727
<b>Vascular and unspecified dementia</b>	F01, F03	30,175	0	1	3	31	438	2,715	9,003	17,984
<b>Renal failure</b>	N17–N19	24,621	30	185	487	1,456	3,601	6,230	6,691	5,939
<b>Intentional and unintentional injury, poisoning and other adverse events</b>	S00–T98, V01–X59, X60–X84, X85–Y09, Y10–Y36, Y40–Y89, U01–U03	9,940	105	267	351	566	1,164	1,875	2,397	3,215
<b>All other conditions and causes (residual)</b>	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	144,006	444	1,217	2,737	7,330	18,519	33,219	39,096	41,436

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.

<sup>1</sup>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.

<sup>2</sup>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.

## 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.

