



## 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 9, 2020



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of December 9, 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 12/5/2020.\*

Updated December 9, 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>261,530</b>	2,703,232	257,672	119,560	6,868	405,464	328,239,52
	Under 1 year	<b>29</b>	15,187	146	4	15	186	3,783,05
	1–4 years	<b>17</b>	2,823	92	2	42	149	15,793,63
	5–14 years	<b>46</b>	4,540	124	7	53	216	40,994,16
	15–24 years	<b>449</b>	29,167	587	157	55	930	42,687,51
	25–34 years	<b>1,909</b>	59,676	2,104	851	154	3,301	45,940,32
	35–44 years	<b>4,917</b>	84,397	4,724	2,186	251	7,676	41,659,14
	45–54 years	<b>13,080</b>	153,621	12,386	6,205	593	19,745	40,874,90
	55–64 years	<b>31,973</b>	352,562	33,412	15,894	1,267	50,533	42,448,53
	65–74 years	<b>55,985</b>	536,982	57,773	27,799	1,497	87,200	31,483,43
	75–84 years	<b>70,815</b>	654,482	71,272	33,560	1,520	109,827	15,969,87

85 years and over	82,310	809,795	75,052	32,895	1,421	125,701	6,604,95
Males							
All ages	141,640	1,411,896	142,226	68,009	3,552	218,768	161,657,32
Under 1 year	20	8,411	89	3	7	113	1,935,11
1–4 years	9	1,649	45	1	25	78	8,074,09
5–14 years	29	2,725	64	6	24	111	20,941,02
15–24 years	271	21,556	357	93	27	559	21,810,35
25–34 years	1,226	42,235	1,284	530	79	2,049	23,359,18
35–44 years	3,301	55,516	2,960	1,475	133	4,897	20,792,08
45–54 years	8,819	96,427	7,686	4,185	355	12,600	20,171,96
55–64 years	20,605	217,024	20,381	10,170	724	31,387	20,499,21
65–74 years	34,257	311,711	34,790	17,190	838	52,529	14,699,57
75–84 years	39,311	340,345	40,267	19,262	759	60,952	6,998,22
85 years and over	33,792	314,297	34,303	15,094	581	53,493	2,376,48
Females							
All ages	119,883	1,291,241	115,438	51,546	3,315	186,685	166,582,19
Under 1 year	9	6,752	57	1	8	73	1,847,93
1–4 years	8	1,174	47	1	17	71	7,719,54
5–14 years	17	1,815	60	1	29	105	20,053,14
15–24 years	178	7,608	230	64	28	371	20,877,15
25–34 years	683	17,439	820	321	75	1,252	22,581,14
35–44 years	1,616	28,878	1,764	711	118	2,779	20,867,06
45–54 years	4,259	57,190	4,699	2,019	238	7,143	20,702,93

55–64 years	<b>11,368</b>	135,529	13,030	5,724	542	19,144	21,949,31
65–74 years	<b>21,727</b>	225,260	22,982	10,608	659	34,670	16,783,85
75–84 years	<b>31,502</b>	314,121	31,002	14,296	761	48,872	8,971,64
85 years and over	<b>48,516</b>	495,475	40,747	17,800	840	72,205	4,228,47

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.

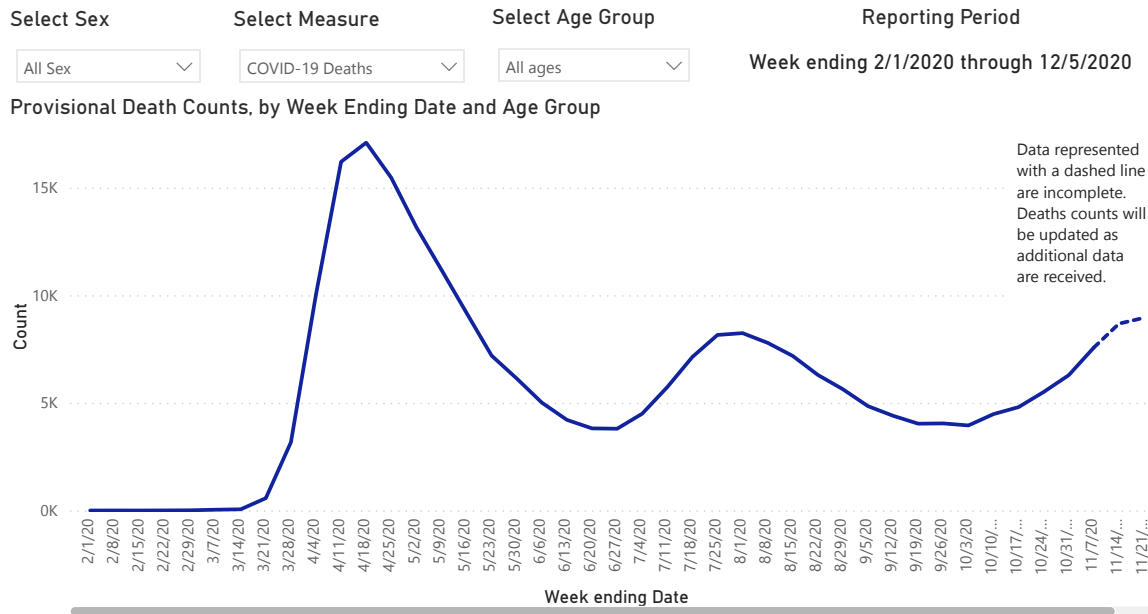
<sup>2</sup>Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

<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.

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



**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 Mortality Data, COVID-19, by Week Ending Date, United States, 2020.

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 12/5/2020.\*

Updated December 9, 2020

Place of death	All Deaths involving COVID-19	Deaths from All	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths	Deaths involving COVID-19 and Pneumonia, excluding	All Deaths involving Influenza, with or without COVID-19 or Pneumonia
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	(U07.1) <sup>1</sup>	Causes	(J12.0-J18.9) <sup>2</sup>	Influenza (U07.1 and J12.0-J18.9) <sup>2</sup>	(J09-J11) <sup>3</sup>
Total	<b>261,530</b>	2,703,232	257,672	119,560	6,868
Healthcare setting, inpatient	<b>168,037</b>	794,515	185,399	95,432	4,164
Healthcare setting, outpatient or emergency room	<b>8,789</b>	160,673	8,136	2,826	249
Healthcare setting, dead on arrival	<b>236</b>	7,676	173	65	13
Decedent's home	<b>14,883</b>	917,095	17,696	3,292	1,475
Hospice facility	<b>7,748</b>	167,202	12,213	3,664	325
Nursing home/long term care facility	<b>56,903</b>	467,461	29,827	13,016	540
Other	<b>4,788</b>	184,521	4,128	1,225	100
Place of death unknown	<b>146</b>	4,089	100	40	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

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 2.6 additional conditions or causes per death. The number of deaths with each condition or cause is shown for all deaths and by age groups. For data on 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 12/5/2020.\*

Updated December 9, 2020

		Number of Conditions								
		Age Group								
Conditions Contributing to Deaths where COVID-19 was listed on the death	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

certificate <sup>1</sup>										
Total COVID-19 deaths <sup>2</sup> , as of 12/5/2020	U071	255,508	535	1,884	4,840	12,862	31,400	54,758	68,966	80,257
<b>Respiratory diseases</b>		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09-J18	110,966	175	853	2,174	6,220	15,295	25,749	30,258	30,239
Chronic lower respiratory diseases	J40-J47	23,133	36	88	203	594	2,334	5,577	7,551	6,749
Adult respiratory distress syndrome	J80	31,113	86	328	895	2,527	5,582	8,367	7,667	5,659
Respiratory failure	J96	90,789	153	613	1,582	4,726	11,840	21,324	25,811	24,738
Respiratory arrest	R09.2	5,276	10	38	88	234	580	1,062	1,427	1,837
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	9,899	25	89	211	530	1,273	2,267	2,717	2,787
<b>Circulatory diseases</b>		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10-I15	54,092	25	163	667	2,261	6,375	11,807	14,966	17,828
Ischemic heart disease	I20-I25	29,507	5	38	154	692	2,640	6,085	9,088	10,804
Cardiac arrest	I46	29,561	76	278	678	1,930	4,344	6,869	7,442	7,944
Cardiac arrhythmia	I44, I45, I47-I49	17,261	14	36	107	375	1,238	3,107	5,240	7,144
Heart failure	I50	18,217	9	54	126	444	1,442	3,113	5,130	7,899
Cerebrovascular diseases	I60-I69	12,937	9	41	137	466	1,452	2,885	3,737	4,209
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	15,414	65	160	361	845	1,945	3,380	3,970	4,688
<b>Sepsis</b>	A40-A41	23,830	56	223	560	1,697	4,030	6,652	6,177	4,435
<b>Malignant neoplasms</b>	C00-C97	12,372	39	54	150	438	1,650	3,242	3,711	3,088
<b>Diabetes</b>	E10-E14	41,673	64	257	899	2,723	6,714	11,198	11,391	8,427
<b>Obesity</b>	E65-E68	9,726	123	430	960	1,670	2,418	2,446	1,321	358
<b>Alzheimer disease</b>	G30	9,909	0	0	0	6	77	670	2,848	6,308
<b>Vascular and unspecified dementia</b>	F01, F03	28,668	0	1	2	31	413	2,605	8,548	17,068

<b>Renal failure</b>	N17–N19	23,202	29	180	463	1,388	3,426	5,891	6,249	5,574
<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	9,343	90	262	337	550	1,103	1,759	2,225	3,017
<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	135,392	435	1,175	2,631	6,997	17,581	31,390	36,470	38,705

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.

