



# Weekly Updates by Select Demographic and Geographic Characteristics

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

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Updated: February 17, 2021



Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of February 17, 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.

As of January 4, 2021, the tables and datasets on this page include data from January 2020 through the present data period. Cumulative death totals will be higher than previous reports which were restricted to include data from the week ending February 1, 2020.

## List of Topics

1. Sex and age
2. Race and Hispanic origin
3. Place of death
4. Comorbidities and other conditions

5. Excess deaths

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

For the Index of Provisional COVID-19 Mortality Surveillance and Ad-hoc Data Files, [click here](#).

## Sex and Age

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, from 1/1/2020 to 2/13/2021.\*

Updated February 17, 2021

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>460,234</b>	3,658,769	401,250	219,974	8,875	649,194	328,239,523
	Under 1 year	<b>45</b>	19,831	218	7	21	277	3,783,052
	1-4 years	<b>23</b>	3,593	124	3	60	204	15,793,631
	5-14 years	<b>72</b>	5,810	170	13	75	304	40,994,163
	15-24 years	<b>648</b>	37,548	803	250	81	1,277	42,687,510
	25-34 years	<b>2,922</b>	77,543	2,982	1,303	235	4,819	45,940,321
	35-44 years	<b>7,711</b>	111,034	6,971	3,557	356	11,446	41,659,144
	45-54 years	<b>21,251</b>	204,360	18,769	10,646	772	30,031	40,874,902

55–64 years	<b>54,134</b>	473,472	50,946	28,148	1,631	78,321	42,448,537
65–74 years	<b>99,019</b>	730,382	91,258	51,988	1,904	139,895	31,483,433
75–84 years	<b>128,192</b>	893,259	113,298	64,018	1,922	179,134	15,969,872
85 years and over	<b>146,217</b>	1,101,937	115,711	60,041	1,818	203,486	6,604,958

### Males

All ages	<b>250,660</b>	1,914,775	223,761	126,516	4,588	351,759	161,657,324
Under 1 year	<b>30</b>	10,984	129	5	10	164	1,935,117
1–4 years	<b>14</b>	2,062	59	2	38	109	8,074,090
5–14 years	<b>40</b>	3,467	95	10	37	162	20,941,023
15–24 years	<b>390</b>	27,776	483	146	38	761	21,810,359
25–34 years	<b>1,861</b>	54,653	1,810	807	115	2,968	23,359,180
35–44 years	<b>5,075</b>	72,770	4,309	2,340	187	7,205	20,792,080
45–54 years	<b>14,187</b>	128,325	11,691	7,112	449	19,136	20,171,966
55–64 years	<b>34,624</b>	291,746	31,146	17,876	942	48,669	20,499,219
65–74 years	<b>60,719</b>	425,100	55,244	32,244	1,066	84,586	14,699,579
75–84 years	<b>72,046</b>	466,852	64,877	37,418	967	100,325	6,998,223
85 years and over	<b>61,674</b>	431,040	53,918	28,556	739	87,674	2,376,488

### Females

All ages	<b>209,564</b>	1,743,879	177,481	93,452	4,287	297,423	166,582,199
Under 1 year	<b>15</b>	8,814	89	2	11	113	1,847,935
1–4 years	<b>9</b>	1,531	65	1	22	95	7,719,541
5–14 years	<b>32</b>	2,343	75	3	38	142	20,053,140
15–24 years	<b>258</b>	9,770	320	104	43	516	20,877,151
25–34 years	<b>1,061</b>	22,885	1,172	496	120	1,851	22,581,141
35–44	<b>2,636</b>	38,261	2,662	1,217	169	4,241	20,867,064

years

45–54 years	<b>7,063</b>	76,030	7,077	3,533	323	10,894	20,702,936
55–64 years	<b>19,509</b>	181,716	19,798	10,271	689	29,650	21,949,318
65–74 years	<b>38,297</b>	305,271	36,013	19,743	838	55,306	16,783,854
75–84 years	<b>56,143</b>	426,395	48,418	26,598	955	78,805	8,971,649
85 years and over	<b>84,541</b>	670,863	61,792	31,484	1,079	115,810	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.

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

Select Sex

All Sex

Select Measure

COVID-19 Deaths

Select Age Group

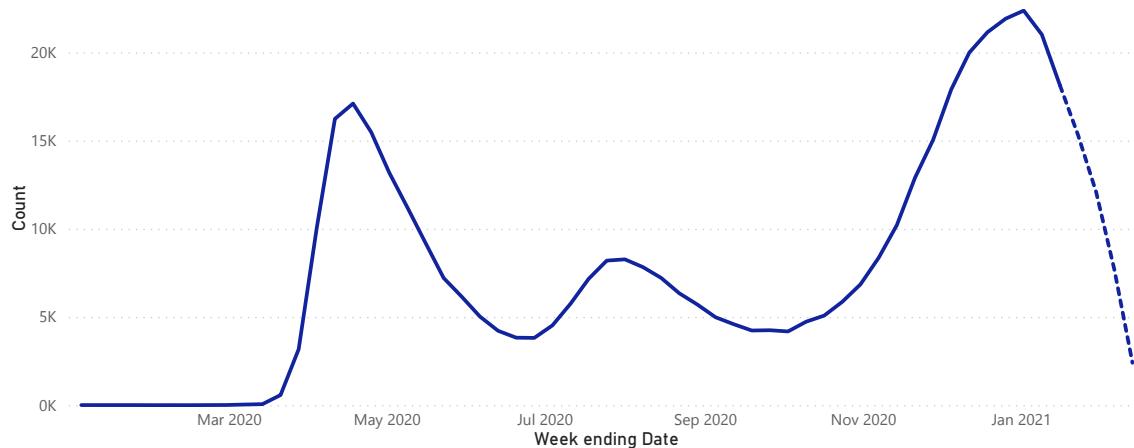
All Ages

Reporting Period

Week ending 1/4/2020 through 2/13/2021

Data represented with a dashed line 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 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, National Vital Statistics System, Provisional Data.

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, from 1/1/2020 to 2/13/2021.\*

Updated February 17, 2021

Place of death	All Deaths involving COVID-19	Deaths from	Deaths involving Pneumonia, with or without COVID-19,	Deaths involving COVID-19 and Pneumonia, excluding	All Deaths involving Influenza, with or without COVID-19 or
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	19 (U07.1) <sup>1</sup>	All Causes	excluding Influenza deaths (J12.0-J18.9) <sup>2</sup>	Influenza (U07.1 and J12.0-J18.9) <sup>2</sup>	Pneumonia (J09-J11) <sup>3</sup>
Total	<b>460,234</b>	3,658,769	401,250	219,974	8,875
Healthcare setting, inpatient	<b>295,457</b>	1,122,625	295,205	176,687	5,600
Healthcare setting, outpatient or emergency room	<b>15,040</b>	217,134	12,059	4,952	374
Healthcare setting, dead on arrival	<b>401</b>	10,269	263	106	17
Decedent's home	<b>29,774</b>	1,213,274	26,516	7,557	1,695
Hospice facility	<b>13,385</b>	219,217	17,648	6,576	409
Nursing home/long term care facility	<b>96,864</b>	630,143	43,187	21,587	642
Other	<b>9,135</b>	242,852	6,266	2,459	135
Place of death unknown	<b>178</b>	3,255	106	50	3

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 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). 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 3.8 additional conditions or causes per death. The number of mentions for each condition or cause is shown for all deaths and by age groups.

**Starting December 23, 2020, the data file will also include the number of deaths that mention the listed conditions. The new column, "COVID-19 Deaths" represents the number of deaths that mention one or more of the conditions indicated. The data file's existing "Number of Mentions" column represents the number of total conditions mentioned for each age group.**

For data on the comorbidities and conditions mentioned in COVID-19 deaths, [Click here to download](#).

▼ **Table 3. Conditions contributing to deaths involving coronavirus disease 2019 (COVID-19), by age group, United States. Week ending 1/4/2020 to 2/13/2021.\***

Updated February 17, 2021

	Number of Conditions

		Age Group									
Conditions Contributing to Deaths where COVID-19 was listed on the death certificate <sup>1</sup>	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	
Total COVID-19 deaths <sup>2</sup> , as of 2/13/2021	U071	455,247	783	2,891	7,617	21,007	53,477	97,800	126,780	144,883	
<b>Respiratory diseases</b>											
Influenza and pneumonia	J09-J18	206,834	281	1,315	3,566	10,643	27,202	48,742	58,954	56,126	
Chronic lower respiratory diseases	J40-J47	41,739	44	129	297	951	4,024	10,054	14,025	12,214	
Adult respiratory distress syndrome	J80	48,128	117	477	1,293	3,795	8,693	13,497	12,179	8,075	
Respiratory failure	J96	171,260	230	948	2,636	8,099	21,494	40,649	50,486	46,715	
Respiratory arrest	R09.2	9,730	15	56	145	398	1,051	1,932	2,702	3,431	
Other diseases of the respiratory system	J00-J06, J20-J39, J60-J70, J81-J86, J90-J95, J97-J99, U04	17,930	45	139	360	925	2,440	4,264	5,030	4,727	
<b>Circulatory diseases</b>											
Hypertensive diseases	I10-I15	91,216	30	255	1,073	3,541	10,283	19,812	25,697	30,524	
Ischemic heart disease	I20-I25	52,029	8	61	262	1,153	4,465	10,746	16,402	18,931	
Cardiac arrest	I46	53,414	98	421	1,121	3,273	7,652	12,488	14,212	14,148	
Cardiac arrhythmia	I44, I45, I47-I49	33,112	18	61	176	651	2,254	5,931	10,276	13,745	
Heart failure	I50	33,984	11	77	228	745	2,468	5,690	9,853	14,911	
Cerebrovascular diseases	I60-I69	22,533	19	69	209	756	2,320	4,834	6,608	7,717	
Other diseases of the circulatory system	I00-I09, I26-I43, I51, I52, I70-I99	29,258	96	255	584	1,444	3,539	6,437	8,032	8,871	
<b>Sepsis</b>	A40-A41	41,353	78	321	920	2,744	6,884	11,649	11,187	7,568	
<b>Malignant neoplasms</b>	C00-C97	22,906	55	78	247	822	2,922	5,993	7,077	5,712	
<b>Diabetes</b>	E10-E14	72,400	82	396	1,427	4,415	11,351	19,662	20,445	14,621	
<b>Obesity</b>	E65-E68	17,208	169	693	1,512	2,775	4,309	4,577	2,513	660	
<b>Alzheimer disease</b>	G30	17,701	0	0	3	11	149	1,118	5,075	11,345	

<b>Vascular and unspecified dementia</b>	F01, F03	48,223	0	1	4	45	610	4,076	14,131	29,355
<b>Renal failure</b>	N17-N19	43,807	45	278	784	2,357	6,019	11,007	12,418	10,896
<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	16,930	158	370	541	884	1,940	3,242	4,247	5,548
<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	252,865	643	1,877	4,431	11,851	31,264	57,975	70,330	74,483

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.

## 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. Updated weekly.
- [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. **\*\*ADDED 2/3/2021\*\***

- [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. Updated weekly. **\*\*ADDED 2/3/2021\*\***

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.

# 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.

