Centers for Disease Control and Prevention

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: September 2, 2020

Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of September 2, 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.

List of Topics

1. Age and sex
2. Race and Hispanic origin
3. Place of death
4. Comorbidities
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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 8/29/2020

Updated September 2, 2020

Updated September 2, 2020

Sex	Age group	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]	Deaths involving Pneumonia, Influenza, or COVID-19 (U07.1 or J09–J18.9)[4]	Population[5]
Total								
	All ages	**170,566**	1,841,678	175,096	75,771	6,660	275,565	327,167,434
	Under 1 year	**18**	10,185	94	2	16	126	3,848,208
	1–4 years	**14**	1,967	67	2	42	121	15,962,067
	5–14 years	**28**	3,027	93	8	51	164	41,075,169
	15–24 years	**300**	19,318	393	105	52	636	42,970,800
	25–34 years	**1,318**	40,030	1,477	585	151	2,347	45,697,774
	35–44 years	**3,450**	56,730	3,281	1,505	247	5,444	41,277,888
	45–54 years	**9,047**	104,779	8,474	4,140	577	13,853	41,631,699
	55–64 years	**21,552**	240,290	22,741	10,293	1,235	35,015	42,272,636
	65–74 years	**36,434**	364,438	38,531	17,286	1,440	58,885	30,492,316
	75–84 years	**45,022**	445,660	47,818	20,673	1,470	73,434	15,394,374
	85 years and over	**53,383**	555,254	52,127	21,172	1,379	85,540	6,544,503
Males								
	All ages	**92,121**	960,395	95,707	42,639	3,431	148,011	161,128,679
	Under 1 year	**13**	5,633	61	2	8	80	1,968,505
	1–4 years	**7**	1,153	32	1	25	63	8,163,697
	5–14 years	**20**	1,801	49	7	23	85	20,974,830
	15–24 years	**187**	14,305	244	65	27	390	21,976,455
	25–34 years	**878**	28,228	920	384	76	1,481	23,210,709
	35–44 years	**2,369**	37,380	2,088	1,036	132	3,530	20,587,600
	45–54 years	**6,183**	65,899	5,307	2,840	342	8,920	20,541,202
	55–64 years	**14,068**	148,054	13,892	6,673	701	21,839	20,398,863
	65–74 years	**22,446**	211,882	23,157	10,714	804	35,539	14,246,085
	75–84 years	**24,762**	231,691	26,744	11,664	730	40,458	6,735,040

Sex	Age group	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]	Deaths involving Pneumonia, Influenza, or COVID-19 (U07.1 or J09–J18.9)[4]	Population[5]
	85 years and over	**21,188**	214,369	23,213	9,253	563	35,626	2,325,693
Females								
	All ages	**78,441**	881,206	79,384	33,128	3,228	127,548	166,038,755
	Under 1 year	**5**	4,537	33	0	8	46	1,879,703
	1–4 years	**7**	814	35	1	17	58	7,798,370
	5–14 years	**8**	1,226	44	1	28	79	20,100,339
	15–24 years	**113**	5,012	149	40	25	246	20,994,345
	25–34 years	**440**	11,800	557	201	75	866	22,487,065
	35–44 years	**1,081**	19,347	1,193	469	115	1,914	20,690,288
	45–54 years	**2,863**	38,877	3,166	1,299	235	4,932	21,090,497
	55–64 years	**7,484**	92,229	8,848	3,620	533	13,174	21,873,773
	65–74 years	**13,987**	152,546	15,373	6,571	636	23,345	16,246,231
	75–84 years	**20,259**	213,956	21,073	9,008	740	32,975	8,659,334
	85 years and over	**32,194**	340,862	28,913	11,918	816	49,913	4,218,810

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.

[1]Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1

[2]Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.

[3]Counts of deaths involving influenza 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.

[5]Population is based on 2018 postcensal estimates from the U.S. Census Bureau

dead on arrival.

Place of death	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]
Decedent's home	**9,180**	620,063	11,951	1,827	1,441
Hospice facility	**4,748**	115,649	8,277	2,152	316
Nursing home/long term care facility	**37,043**	328,647	21,629	8,871	524
Other	**2,916**	124,135	2,836	752	98
Place of death unknown	**61**	1,875	73	21	0

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.
[1]Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
[2]Counts of deaths involving pneumonia include pneumonia deaths that also involve COVID-19 and exclude pneumonia deaths involving influenza.
[3]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 8/29/2020.*

Updated September 2, 2020

		Number of Conditions								
		Age Group								
Conditions Contributing to Deaths where COVID-19 was listed on the death certificate[1]	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[2], as of 8/29/2020	U071	169,044	357	1,310	3,424	8,956	21,324	36,102	44,623	52,939
Respiratory diseases		-	-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	71,700	122	596	1,521	4,186	10,014	16,301	19,091	19,867
Chronic lower respiratory diseases	J40–J47	14,556	25	65	152	424	1,563	3,460	4,597	4,269
Adult respiratory distress syndrome	J80	22,747	62	245	649	1,868	3,947	5,992	5,516	4,466

		Number of Conditions								
		Age Group								
Conditions Contributing to Deaths where COVID-19 was listed on the death certificate[1]	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
Respiratory failure	J96	57,502	106	424	1,078	3,153	7,632	13,264	15,835	16,007
Respiratory arrest	R09.2	3,422	8	24	66	161	377	701	926	1,159
Other diseases of the respiratory system	J00–J06, J20–J39, J60–J70, J81–J86, J90–J95, J97–J99, U04	5,971	21	52	123	304	759	1,267	1,600	1,845
Circulatory diseases		-	-	-	-	-	-	-	-	-
Hypertensive diseases	I10–I15	37,314	16	104	475	1,614	4,500	8,157	10,270	12,177
Ischemic heart disease	I20–I25	19,128	2	26	99	443	1,744	3,935	5,799	7,078
Cardiac arrest	I46	21,034	52	197	496	1,378	3,040	4,764	5,291	5,815
Cardiac arrhythmia	I44, I45, I47–I49	10,400	9	23	62	235	757	1,870	3,050	4,394
Heart failure	I50	11,056	5	41	86	288	933	1,902	3,060	4,741
Cerebrovascular diseases	I60–I69	8,084	7	24	84	285	921	1,814	2,364	2,584
Other diseases of the circulatory system	I00–I09, I26–I43, I51, I52, I70–I99	9,241	40	103	220	534	1,199	2,058	2,292	2,795
Sepsis	A40–A41	14,918	32	142	374	1,100	2,553	4,101	3,765	2,851
Malignant neoplasms	C00–C97	7,805	26	36	94	296	1,059	2,034	2,358	1,902
Diabetes	E10–E14	27,528	44	176	630	1,895	4,543	7,393	7,346	5,500
Obesity	E65–E68	6,059	84	291	681	1,089	1,509	1,432	753	220
Alzheimer disease	G30	5,920	0	0	0	2	51	397	1,720	3,750
Vascular and unspecified dementia	F01, F03	19,400	0	0	2	21	293	1,804	5,705	11,575
Renal failure	N17–N19	14,529	17	120	305	948	2,151	3,724	3,817	3,445
Intentional and unintentional injury, poisoning and other adverse events	S00–T98, V01–X59, X60–X84, X85–Y09, Y10–Y36, Y40–Y89, U01–U03	5,424	40	135	197	335	628	1,061	1,306	1,720
All other conditions and causes (residual)	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	82,433	270	737	1,700	4,470	11,089	19,265	21,546	23,347

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.
[1]Conditions contributing to the death were identified using the International Classification of Diseases, Tenth Revision (ICDndash;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.
[2]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.

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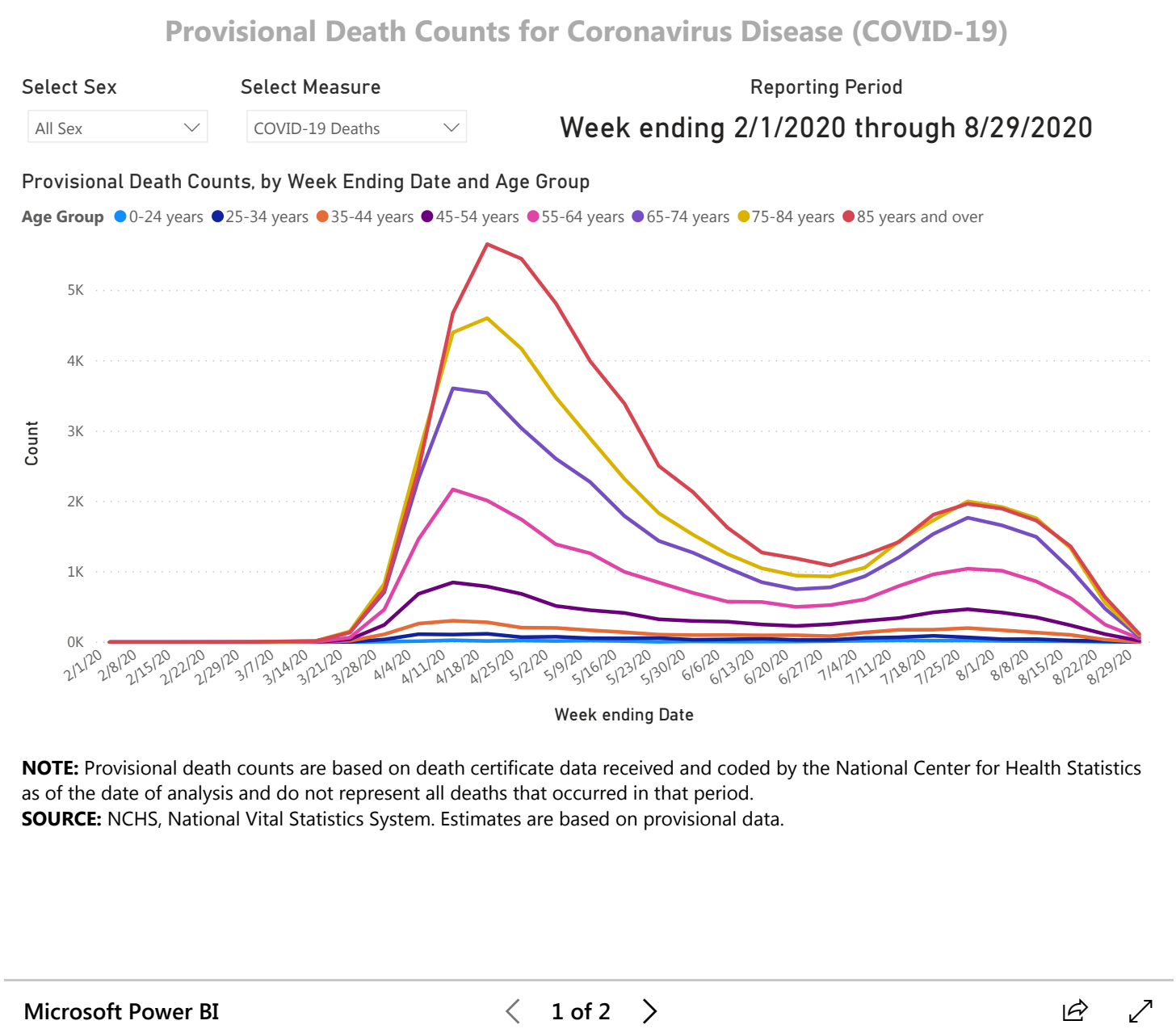

Race and Hispanic origin

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 8/29/2020.*

Updated September 2, 2020

Place of death	All Deaths involving COVID-19 (U07.1)[1]	Deaths from All Causes	Deaths involving Pneumonia, with or without COVID-19, excluding Influenza deaths (J12.0–J18.9)[2]	Deaths involving COVID-19 and Pneumonia, excluding Influenza (U07.1 and J12.0–J18.9)[2]	All Deaths involving Influenza, with or without COVID-19 or Pneumonia (J09–J11)[3]
Total	**170,566**	1,841,678	175,096	75,771	6,660
Healthcare setting, inpatient	**110,313**	536,859	124,306	60,093	4,031
Healthcare setting, outpatient or emergency room	**6,137**	109,203	5,895	2,014	239
Healthcare setting, dead on arrival	**168**	5,247	129	41	11