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Weekly Updates by Select Demographic and Geographic Characteristics

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

Contents

- Daily Updates of Totals by Week and State
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Updated: December 23, 2020

Note: Provisional death counts are based on death certificate data received and coded by the National Center for Health Statistics as of December 23, 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
5. Excess deaths
6. State and county data files

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.

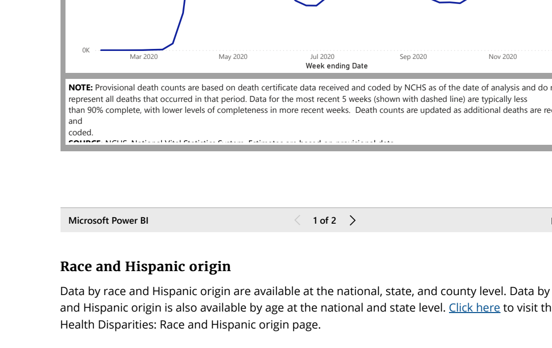
Data on deaths involving COVID-19 among ages 0–18 are available here: Click here to download

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 12/19/2020.*

Updated December 23, 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]
Total							
	All ages	291,757	2,851,438	278,486	134,143	6,926	441,957
	Under 1 year	31	15,858	152	6	16	193
	1–4 years	18	2,932	95	2	42	153
	5–14 years	50	4,748	129	9	53	223
	15–24 years	468	30,531	615	166	55	968
	25–34 years	2,041	62,576	2,240	913	155	3,507
	35–44 years	5,298	88,558	5,051	2,372	253	8,199
	45–54 years	14,124	161,268	13,257	6,787	596	21,080
	55–64 years	34,966	370,815	35,754	17,478	1,270	54,287
	65–74 years	62,280	566,670	62,558	31,228	1,516	94,861
	75–84 years	79,724	691,540	77,471	38,112	1,535	120,392
	85 years and over	92,757	855,942	81,164	37,070	1,435	138,094
Males							
	All ages	158,111	1,490,247	154,231	76,528	3,587	238,746
	Under 1 year	21	8,752	92	4	7	116
	1–4 years	10	1,709	46	1	25	80
	5–14 years	32	2,863	68	8	24	116
	15–24 years	281	22,581	370	97	27	578
	25–34 years	1,308	44,239	1,362	564	79	2,175
	35–44 years	3,554	58,257	3,170	1,601	134	5,234
	45–54 years	9,509	101,228	8,236	4,575	358	13,452
	55–64 years	22,451	228,312	21,805	11,144	727	33,686
	65–74 years	38,172	329,228	37,807	19,377	850	57,279
	75–84 years	44,427	360,180	43,940	21,982	768	67,028
	85 years and over	38,346	332,898	37,335	17,175	588	59,002
Females							
	All ages	133,638	1,361,082	124,247	57,610	3,338	203,199
	Under 1 year	10	7,078	60	2	9	77
	1–4 years	8	1,223	49	1	17	73
	5–14 years	18	1,885	61	1	29	107
	15–24 years	187	7,947	245	69	28	390
	25–34 years	733	18,335	878	349	76	1,332
	35–44 years	1,744	30,296	1,881	771	119	2,965
	45–54 years	4,613	60,036	5,020	2,211	238	7,626
	55–64 years	12,515	142,494	13,948	6,334	542	20,599
	65–74 years	24,107	237,431	24,750	11,850	666	37,581
	75–84 years	35,295	331,343	33,528	16,128	767	53,361
	85 years and over	54,408	523,014	43,827	19,894	847	79,088

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 2019 postcensal estimates from the U.S. Census Bureau.



Microsoft Power BI 1 of 2

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 12/19/2020.*

Updated December 23, 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	291,757	2,851,438	278,486	134,143	6,926
Healthcare setting, inpatient	186,594	842,532	201,063	107,100	4,202
Healthcare setting, outpatient or emergency room	9,695	169,570	8,707	3,106	252
Healthcare setting, dead on arrival	264	8,069	188	72	13
Decedent's home	16,920	965,330	19,034	3,889	1,484
Hospice facility	8,512	175,088	12,976	4,055	330
Nursing home/long term care facility	64,238	493,066	32,006	14,501	543
Other	5,370	193,698	4,408	1,376	100
Place of death unknown	164	4,085	104	44	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 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.

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 2.9 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 2/1/2020 to 12/19/2020.*

Updated December 23, 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
Total COVID-19 deaths[2], as of 12/19/2020	U071	285,078	563	2,012	5,205	13,879	34,303	60,954	77,746
Respiratory diseases		-	-	-	-	-	-	-	-
Influenza and pneumonia	J09–J18	124,310	187	920	2,360	6,765	16,779	28,897	34,385
Chronic lower respiratory diseases	J40–J47	26,045	36	94	221	656	2,564	6,273	8,564
Adult respiratory distress syndrome	J80	33,674	90	349	950	2,690	6,021	9,114	8,365
Respiratory failure	J96	102,297	162	649	1,713	5,159	13,033	24,012	29,476
Respiratory arrest	R09.2	5,906	13	41	94	255	638	1,178	1,596
Other diseases of the respiratory system	J00–J06, J20–J39, J60–J70, J81–J86, J90–J95, J97–J99, U04	11,026	29	94	233	577	1,438	2,528	3,054
Circulatory diseases		-	-	-	-	-	-	-	-
Hypertensive diseases	I10–I15	59,392	25	169	726	2,401	6,875	12,918	16,528
Ischemic heart disease	I20–I25	32,902	6	42	163	749	2,895	6,801	10,227
Cardiac arrest	I46	32,398	78	302	730	2,086	4,690	7,582	8,259
Cardiac arrhythmia	I44, I45, I47–I49	19,659	15	40	119	412	1,369	3,504	6,021
Heart failure	I50	20,631	9	55	134	476	1,564	3,512	5,843
Cerebrovascular diseases	I60–I69	14,454	12	44	148	498	1,602	3,176	4,187
Other diseases of the circulatory system	I00–I09, I26–I43, I51, I52, I70–I99	17,386	71	174	391	936	2,156	3,776	4,589
Sepsis	A40–A41	26,354	56	231	604	1,835	4,406	7,404	6,922
Malignant neoplasms	C00–C97	13,903	40	60	160	478	1,809	3,655	4,217
Diabetes	E10–E14	46,033	66	272	970	2,925	7,296	12,383	12,708
Obesity	E65–E68	10,828	129	454	1,042	1,816	2,689	2,786	1,511
Alzheimer disease	G30	11,186	0	0	1	6	87	737	3,224
Vascular and unspecified dementia	F01, F03	31,825	0	1	3	33	450	2,847	9,453
Renal failure	N17–N19	25,977	31	189	498	1,503	3,745	6,602	7,098
Intentional and unintentional injury, poisoning and other adverse events	S00–T98, V01–X59, X60–X84, X85–Y09, Y10–Y36, Y40–Y89, U01–U03	10,479	107	278	356	584	1,215	1,978	2,551
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	152,400	457	1,270	2,833	7,627	19,372	35,239	41,569

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 (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.
[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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