

US COVID-19 Mortality Rates by Life Stage (from CDC Data⁴ Feb 1 - May 9, 2020)

	----- Nation Threat Level ⁵ -----			----- Caregiver Case Load ⁵ -----			
Life Stage	Projected 2020 COVID-19 Involved Deaths as % of US Population ^{1,4}	Projected 2020 COVID-19 Involved Deaths as % of Life Stage Population ^{1,4}	Estimated 2018 Influenza Involved Deaths as % of Life Stage Population ^{1,4}	Projected 2020 Deaths Involving COVID-19 ^{1,2,4}	Estimated 2018 Deaths Involving Influenza ^{1,3,4}	% of All COVID-19 Involved Deaths	Life Stage Population Size ^{1,4}
Newborn-Preschooler (age 0-5)	.000004%	.00006%	.002%	14	392	0.01%	23,917,792
Students (age 6-18)	.00002%	.0001%	.0005%	67	253	0.05%	54,155,972
Subtotals	.00003%	.0001%	.0008%	81	645	0.06%	78,073,764
Workforce 1 (age 19-54)	.003%	.006%	.003%	9,316	4,649	7.43%	154,389,841
Workforce 2 (age 55-65)	.005%	.04%	.02%	17,914	8,425	14.28%	45,321,868
Subtotals	.008%	.01%	.007%	27,230	13,074	21.71%	199,711,709
Retired (age 66-77)	.01%	.1%	.05%	33,974	17,562	27.09%	32,061,397
Geriatric (age 78-up)	.02%	.4%	.3%	64,147	48,884	51.14%	17,320,565
Subtotals	.03%	.2%	.1%	98,121	66,446	78.23%	49,381,962
Population Totals	.04%			125,432	80,165	100%	327,167,435

¹ Data source: https://www.cdc.gov/nchs/nvss/vsrr/covid_weekly/index.htm (table 1, cumulative to date). “Life Stage Population Size” is an approximation derived from publicly available CDC age group data by assuming each age year in the CDC age group has the same number of members (i.e. each age in the CDC group 5-14 for 05/08/2020 is assumed to have 4,107,517 members since the CDC group has 10 ages represented and the CDC group is 41,075,169 in size). The member numbers are then used to compile each “Life Stage Population Size” used in this report. The CDC data used in calculating death numbers on this table are approximated in the same fashion. While this method may not be 100% reflective of the CDC data it is derived from, it is considered sufficiently accurate that any differences that may exist would not materially affect the calculated percentages, even if calculated using proprietary CDC data not available to the general public.

² The column “Projected 2020 COVID-19 Involved Deaths as % of Life Stage Population” is calculated by adding the publicly available CDC data for all deaths where COVID-19 is cited as a contributing cause of death, be it primary or secondary. Therefore, a distinction should be made by the reader between counts of “involved” deaths that are tabulated here, and “primary cause” deaths which are most likely lower. The publicly available CDC data is multiplied by a factor of 1.04 in order to extrapolate to estimated year end totals, with the extrapolation factor estimated based on CDC trend data. Data includes cases coded as U07.1 potentially including codes J09-J18 in addition to U07.1.

³ The column “Estimated 2018 Influenza Involved Deaths as % of Life Stage Population” is based on the publicly available CDC data for calendar year 2017 for all deaths where Influenza is cited as a cause of death, be it primary or secondary, as tabulated in the National Vital Statistics Reports Volume 68, Number 9, Table 5 for the year 2017. The 2017 data is utilized to estimate 2018 data because 2018 data broken out by age group is apparently not yet publicly available from CDC. The 2018 CDC influenza/pneumonia total however was obtained and the 2017 numbers were multiplied by a factor of 1.41 to scale them to the 2018 total. Data includes cases coded as J09-J18.

⁴ CDC data for covid-19 provisional death counts begins on Feb 1, 2020. Per CDC notes, publicly available CDC data is incomplete for the end date specified and does not represent actual cumulative US totals. The data represents those cases reported to and processed by CDC as of the end date specified. According to CDC footnotes, a reporting/processing delay may exist for some cases, causing a tabulation delay for those cases that can be several weeks, causing the data set as a whole to be considered by CDC as approximately two weeks behind other available sources for death counts.

⁵ A characterization of the data columns designed to aid the reader.

For additional information about the source data used in compiling this table, see these publicly available CDC pages:
https://www.cdc.gov/nchs/nvss/vsrr/covid19/tech_notes.htm (technical notes about the data)
<https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku> (data download page)