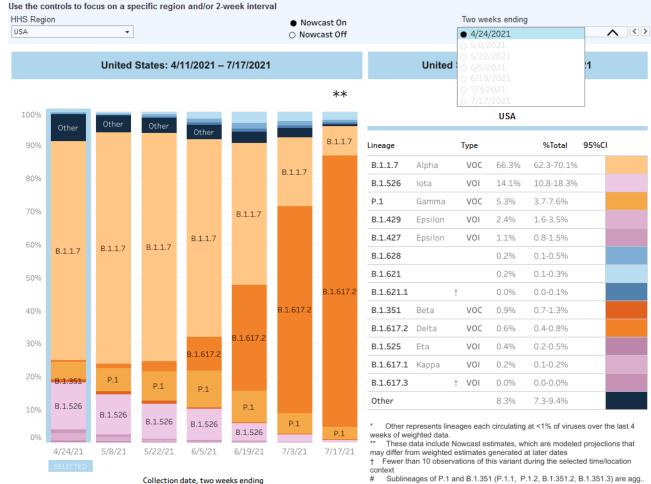
Supplemental Online Content

Schneiderman M, Rumain B, Kaganovskiy L, Geliebter A. Incidence and relative risk of COVID-19 in adolescents and youth compared with older adults in 19 US states, fall 2020. *JAMA Netw Open*. 2022;5(7):e2222126. doi:10.1001/jamanetworkopen.2022.22126

eFigure 1. Proportion of Variants Circulating in the US from April 11, 2021, through April 24, 2021, Based on SARS-CoV-2 Genomes Sequenced During that Time Period
eAppendix 1. Case Data by State Websites
eAppendix 2. New York Times Websites Indicating Surges by State
eAppendix 3. List of Supplemental Figures/Tables Containing Case Data
eAppendix 4. Demographic Data by Age and by State Websites

This supplemental material has been provided by the authors to give readers additional information about their work.

eFigure 1. Proportion of Variants Circulating in the US from April 11, 2021, through April 24, 2021, Based on SARS-CoV-2 **Genomes Sequenced During that Time Period**





eAppendix1. Case Data by State Websites

(i)Alaska: https://experience.arcgis.com/experience/2d19dc2b5c7e4b399ff6495a8950493d/ [Retrieved Nov. 1, 2020]

- (ii) Colorado: https://covid19.colorado.gov/data [Retrieved Oct. 23, 2020]
- (iii) Michigan: https://www.mistartmap.info/compare/age-group [Retrieved Nov. 18, 2020]
- (iv) Montana: https://dphhs.mt.gov/publichealth/cdepi/diseases/coronavirusmt/demographics [Retrieved Oct. 24, 2020]
- (v) Nevada: https://nvhealthresponse.nv.gov [Retrieved Oct. 31, 2020]
- (vi) New Mexico: <u>https://cvprovider.nmhealth.org/public-dashboard.html#</u> [Retrieved Oct. 24, 2020]
- (vii) North Dakota: <u>https://www.health.nd.gov/diseases-conditions/coronavirus/north-dakota-coronavirus-cases</u> [Retrieved October 24, 2020]
- (viii) Oregon: https://public.tableau.com/app/profile/oregon.health.authority.covid.19/viz/OregonCOVID-
- <u>19CaseDemographicsandDiseaseSeverityStatewide/DemographicData</u> [Retrieved Oct. 31, 2020]
- (ix) Pennsylvania: <u>https://experience.arcgis.com/experience/ed2def13f9b045eda9f7d22dbc9b500e</u> [Retrieved Oct. 31, 2020]
- (x) South Carolina: <u>https://scdhec.gov/covid19/south-carolina-county-level-data-covid-19</u> [Retrieved May 15, 2021]
- (xi) South Dakota: https://doh.sd.gov/news/coronavirus.aspx [Retrieved Oct. 24, 2020]
- (xii) Tennessee: https://www.tn.gov/content/tn/health/cedep/ncov/data.html [Retrieved Nov. 12, 2020]
- (xiii) Wisconsin: https://www.dhs.wisconsin.gov/covid-19/cases.htm#by%20age [Retrieved Oct. 24, 2020]
- (xiv) Alabama: https://bamatracker.com/chart/caseages [Retrieved Nov. 14, 2020]
- (xv) Florida: <u>https://floridahealthcovid19.gov/</u> [Retrieved November 13, 2020]
- (xvi)Oklahoma: https://coronavirus.health.ok.gov/sites/g/files/gmc786/f/2020.10.23 weekly epi report.pdf [Retrieved Oct. 23, 2020]
- (xvii) Rhode Island: https://ri-department-of-health-covid-19-case-data-rihealth.hub.arcgis.com/#age [Retrieved October 25, 2020]
- (xviii) Minnesota: https://www.health.state.mn.us/diseases/coronavirus/situation.html#ageg1[Retrieved Oct. 24, 2020]
- (xix) Missouri: https://health.mo.gov/living/healthcondiseases/communicable/novel-coronavirus/data/public-health/demographics.php [Retrieved Oct. 24, 2020]

Since the data on the websites above are updated on a daily basis, we are including below, in the Supplemental Tables/Figures, the data as they appeared on the websites when we accessed them. These provide the numbers we used in our calculations.

eAppendix 2. New York Times Websites Indicating Surges by State

https://www.nytimes.com/interactive/2021/us/alaska-covid-cases.html https://www.nytimes.com/interactive/2021/us/colorado-covid-cases.html https://www.nvtimes.com/interactive/2021/us/michigan-covid-cases.html https://www.nytimes.com/interactive/2021/us/montana-covid-cases.html https://www.nvtimes.com/interactive/2021/us/nevada-covid-cases.html https://www.nytimes.com/interactive/2021/us/new-mexico-covid-cases.html https://www.nytimes.com/interactive/2021/us/north-dakota-covid-cases.html https://www.nytimes.com/interactive/2021/us/oregon-covid-cases.html https://www.nvtimes.com/interactive/2021/us/pennsvlvania-covid-cases.html https://www.nvtimes.com/interactive/2021/us/south-carolina-covid-cases.html https://www.nytimes.com/interactive/2020/us/south-dakota-coronavirus-cases.html https://www.nytimes.com/interactive/2020/us/tennessee-coronavirus-cases.html https://www.nytimes.com/interactive/2021/us/wisconsin-covid-cases.html https://www.nytimes.com/interactive/2021/us/alabama-covid-cases.html https://www.nytimes.com/interactive/2020/us/florida-coronavirus-cases.html https://www.nytimes.com/interactive/2021/us/oklahoma-covid-cases.html https://www.nytimes.com/interactive/2021/us/rhode-island-covid-cases.html https://www.nytimes.com/interactive/2021/us/minnesota-covid-cases.html https://www.nytimes.com/interactive/2020/us/missouri-coronavirus-cases.html

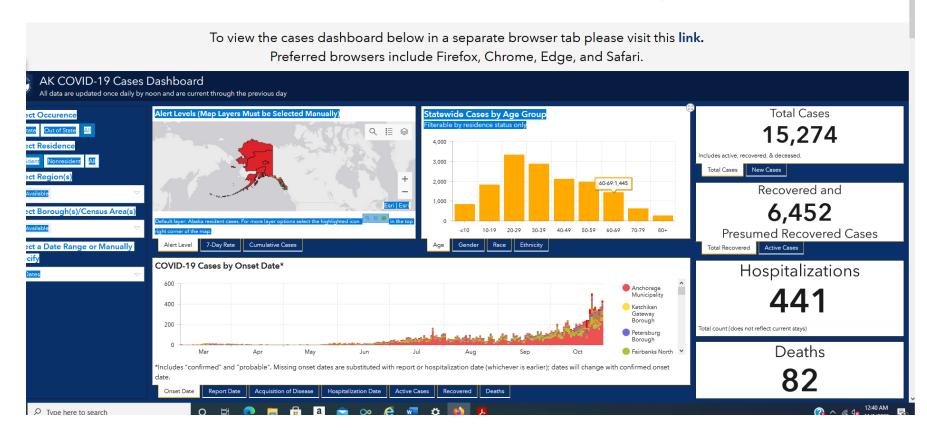
eAppendix 3. List of Supplemental Figures/Tables Containing Case Data

1) eFigure A. Alaska COVID-19 Cases by Age (as of October 31, 2020) 2) eTable B. Colorado COVID-19 Cases by Age (as of Oct. 22, 2020) 3) eFigure C. Michigan COVID-19 Cases by Age (as of Nov. 17, 2020) 4) eTable D. Montana COVID-19 Cases by Age (as of Oct. 23, 2020) 5) eFigure E. Nevada COVID-19 Cases by Age (as of October 30, 2020) 6) eTable F. New Mexico COVID-19 Cases by Age (as of Oct. 23, 2020) 7) eTable G. North Dakota COVID-19 Cases by Age (as of October 23, 2020) 8) eTable/Figure H. Oregon COVID-19 Cases by Age (as of October 30. 2020) 9) eFigure I. Pennsylvania COVID-19 Cases by Age (as of October 30, 2020) 10) eFigure J. South Carolina COVID-19 Cases by Age (as of Dec. 5, 2020) 11) eFigure K. South Dakota COVID-19 Cases by Age (as of Oct. 23, 2020) 12) eTable L. Tennessee COVID-19 Cases by Age (as of November 11, 2020) 13) eFigure M. Wisconsin COVID-19 Cases by Age (as of Oct. 23, 2020) 14) eTable/Figure N. Alabama COVID-19 Cases by Age (as of November 13, 2020) 15) eTable/Figure O. Florida COVID-19 Cases by Age (through November 12, 2020) 16) eTable/Figure P. Oklahoma COVID-19 Cases by Age (as of October 22, 2020) 17) eTable Q. Rhode Island COVID-19 Cases by Age (as of October 24, 2020) 18) eTable R. Minnesota COVID-19 Cases by Age (as of Oct. 23, 2020) 19) eTable S. Missouri COVID-19 Cases by Age (as of Oct. 23, 2020)

🚱 Alaska Department of Health and Social Services Coronavirus Response Data Hub Presentation More •

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Reports



eFigure A. Alaska COVID-19 Cases by Age (as of October 31, 2020)

Source: Alaska Department of Health and Social Services Coronavirus Response Hub, AK COVID-19 Cases Dashboard https://experience.arcgis.com/experience/2d19dc2b5c7e4b399ff6495a8950493d/

Age	Proportion of Cases	Total Case Count
0-9	0.038	3480
10-19	0.108	9890
20-29	0.223	20421
30-39	0.175	16025
40-49	0.154	14102
50-59	0.133	12179
60-69	0.085	7784
70-79	0.046	4212
80+	0.038	3480

eTable B. Colorado COVID-19 Cases by Age (as of Oct. 22, 2020)

Total cumulative cases: 91,572

Source: Colorado Department of Public Health and Environment, "CDPHE COVID19 State-Level Expanded Case Data" (as of 10/22/2020) https://covid19.colorado.gov/data

MI Safe Start Map Track the risk levels of COVID-19	indicators							Dashboard Co	mpare Resources Ab
eographic Area Race Ethnicit	y (Hispanic) Ethnicity (Arab)	Age Group	Gender						
Configure	MICHIGAN STATEWIDE Age Group Mar 1, 2020 - Nov 17, 2020)							
2020-11-17	isparity present 🛛								
ETRIC CALCULATION	AGE GROUP \$		% OF CASES 🔶	% OF DEATHS \$	% OF HOSPITALIZED CASES		DEATHS PER MIL. \$	HOSPITALIZED CASES PER MIL. 2,181.9	
CUMULATIVE PRIOR 28 DAYS									
	KNOWN AGE GROUP ONLY	% of pop 💠	% OF CASES \$	% OF DEATHS \$	% OF HOSPITALIZED CASES	CASES PER MIL. \$	DEATHS PER MIL. \$	HOSPITALIZED CASES PER MIL. \$	
All	Age 0 to 9	11.5%	2.5%	Age 10 to 19	7.59	8,646.8	1.7	98.7	
Over previous 7 days	Age 10 to 19	12.7%	9.5%	Cases (numerator):	37,393	29,492.6	0.7	149.0	
CLUDE:	Age 20 to 29	13.8%	19.7%	Cases all Age groups (de	nominator): 389,999	55,567.9	23.8	528.6	
correctional facilities	Age 30 to 39	12.0%	14.5%	0.8%	5.5%	47,373.1	63.5	1,004.3	
probable cases	Age 40 to 49	11.9%	14.3%	2.9%	8.99	47,147.0	217.7	1,641.7	
REAS SELECTED	Age 50 to 59	13.7%	15.4%	7.4%	15.19	44,016.9	473.5	2,405.5	
	Age 60 to 69	12.6%	11.7%	16.7%	21.29	36,386.0	1,165.1	3,679.6	
Michigan	Age 70 to 79	7.3%	6.9%	26.7%	22.29	37,009.7	3,197.8	6,600.7	
Michigan State	Age 80 Plus	4.0%	5.0%	6 44.8%	22.09	48,769.5	9,623.3	11,756.6	
	4							read more about the data	

eFigure C. Michigan COVID-19 Cases by Age (as of Nov. 17, 2020)

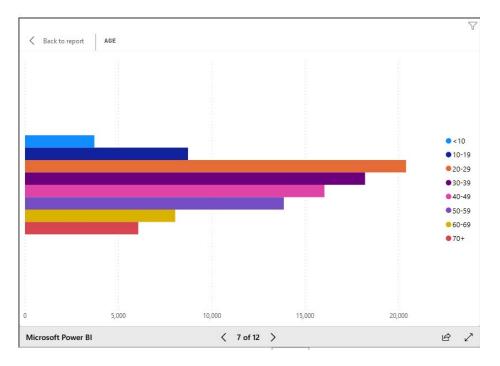
Source: MI Safe Start Map, University of Michigan https://www.mistartmap.info/compare/age-group

eTable D. Montana COVID-19 Cases by Age (as of Oct. 23, 2020)

Age Group	Number of Cases (percent of total)
0-9 years	1,148 (4%)
10-19 years	3,001 (11%)
20-29 years	5,452 (21%)
30-39 years	4,263 (16%)
40-49 years	3,514 (13%)
50-59 years	3,457 (13%)
60-69 years	2,883 (11%)
70-79 years	1,714 (6%)
80-89 years	796 (3%)
90-99 years	257 (1%)
100+	18 (<1%)
Total Cases:	26,503

Source: Montana Department of Public Health and Human Services https://dphhs.mt.gov/publichealth/cdepi/diseases/coronavirusmt/demographics





Total cases: 101,235

eFigure E. Nevada COVID-19 Cases by Age (as of October 30, 2020)

Source: Nevada Department of Health https://nvhealthresponse.nv.gov

eTable F. New Mexico COVID-19 Cases by Age (as of 10/23/2020)

Age	Number of Cases
0-9	2120
10-19	4513
20-29	7987
30-39	7290
40-49	6145
50-59	5339
60-69	3594
70-79	1810
80-89	975
90+	347
Total:	4012

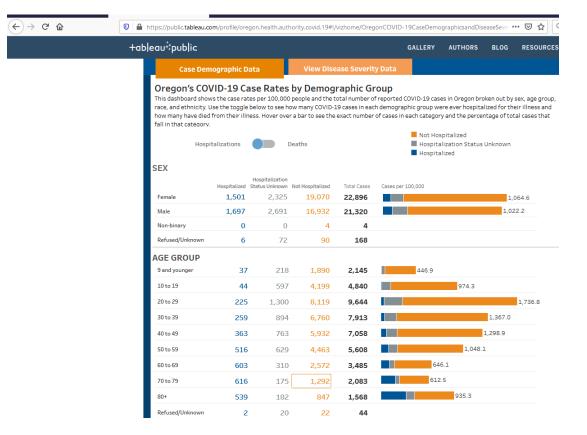
Source: New Mexico Department of Health https://cvprovider.nmhealth.org/public-dashboard.html#

eTable G. North Dakota COVID-19 Cases by Age (as of October 23, 2020)

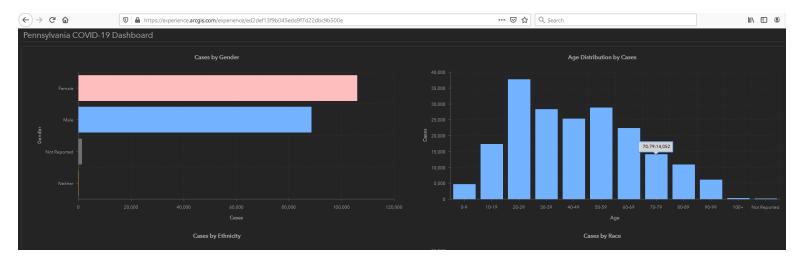
-	
Age	Total Cases
0-9	1549
10-19	4658
20-29	8814
30-39	5932
40-49	4486
50-59	4292
60-69	3490
70-79	1859
80+	1794
Total	35,080

Source: North Dakota Department of Health <u>https://www.health.nd.gov/diseases-conditions/coronavirus/north-dakota-coronavirus-cases</u>

eTable/Figure H. Oregon COVID-19 Cases by Age (as of October 30. 2020)



Source: Oregon Health Authority (OHA) and the OHA Public Health Division <u>https://public.tableau.com/app/profile/oregon.health.authority.covid.19/viz/OregonCOVID-</u>19CaseDemographicsandDiseaseSeverityStatewide/DemographicData



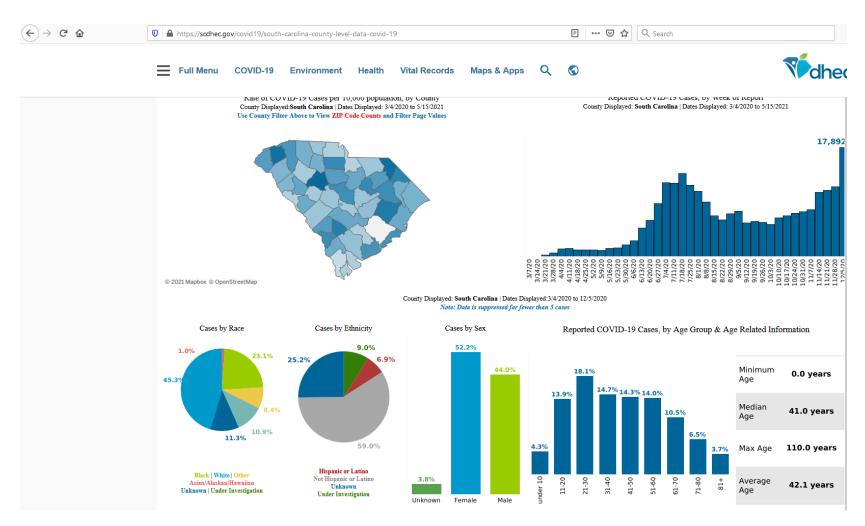
← → Ĉ 🌣 https://data.pa.gov/Health/COVID-19-Aggregate-Cases-Current-Daily-County-Heal/j72v-r42c/data

oper	pendata PA Commonwealth of Pennsylvania														
Based on <u>COVID-1</u>	VID-19 Aggregate Cases Current Daily County Health ed on <u>COVID-19 Aggregate Cases Current Daily County Health</u> : dataset contains aggregate COVID-19 case counts and rates by date of first report for all counties in Pennsylvania and for the state as a whole. Counts >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>														
Jurisdiction	ction i Date i New Cases i 7-day Averag i Cumulative c i Population (i New Case Rate i 7-Day Averag i Cumulative i County FIPS i Longitude i Latitude i Georeferenc														
Pennsylvania	10/30/2020	2,691	2,226.3	209,822	12,801,989	21	17.4	1,639	42000	-75.167756		39.346129		POINT (-75.16775	

Total cases 209,822.

eFigure I. Pennsylvania COVID-19 Cases by Age (as of October 30, 2020)

Source: Pennsylvania Department of Health, https://experience.arcgis.com/experience/ed2def13f9b045eda9f7d22dbc9b500e





eFigure J. South Carolina COVID-19 Cases by Age (as of Dec. 5, 2020) Source: South Carolina Department of Health and Environmental Control <u>https://scdhec.gov/covid19/south-carolina-county-level-data-covid-19</u>

🔒 https://doh. sd.gov /news/coronavirus.aspx	🗉 🛛 🕶 🔽 🔍 Search
	Click the boxes below to explore the data.
	Active Ever Hospitalized Recovered Non-Hospitalized
	Recovered Non-Hospitalized
	Cases: Persons who meet the national surveillance case definition for COVID-19. According to the case definition, a
	confirmed case includes persons with a positive RT-PCR test and a probable case includes persons with a positive antigen
	test for the SARS-CoV-2 virus that causes COVID-19. A positive case moves from active to recovered status based on the
	CDC guidelines for removal from isolation.
	Hospitalized: Refers to a person ever being hospitalized at some point during their COVID-19 infection. The number of
	persons Ever Hospitalized are based on cumulative numbers from the state's electronic disease surveillance system and
	reflect current and prior hospitalizations.
	Deaths: SD-DOH does not report deaths until a certified death record has been filed with COVID-19 as a cause or
	contributing factor. By law, a death record must be filed within 5 days of the date of death.
	Cases by Age Range
	8K · · · · · · · · · · · · · · · · · · ·
	7752
	7K
	6K 6250
	5K
	5190 5223
	8 4K ····· 4052 ··· 4052 ··· 4014
	3K Age Range (years) 20-29
	2K
	2041
	1K ···· 1166 ··· ··· ··· ··· ··· ··· ··· ·
	0K 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80+
	Age Range (years)

Total cases: 37,262

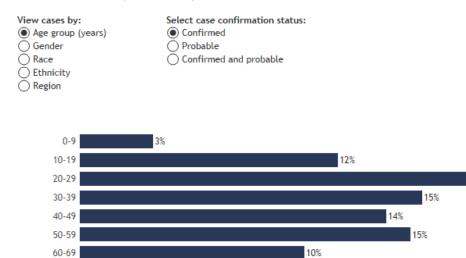
eFigure K. South Dakota COVID-19 Cases by Age (as of Oct. 23, 2020) Source: South Dakota Department of health https://doh.sd.gov/news/coronavirus.aspx

eTable L. Tennessee COVID-19 Cases by Age (as of November 11, 2020)

Age	Total
	Cases
0-10	14,363
11-20	38,925
21-30	57,829
31-40	46,794
41-50	43,426
51-60	39,243
61-70	27,287
71-80	16,316
81+	8,801
Pending	397
Total	293,381

Source: Tennessee Department of Health, "Age Dataset" in https://www.tn.gov/health/cedep/ncov/data/downloadable-datasets.html

Percent of confirmed COVID-19 cases by age group



Updated: 10/23/2020 (Total: 190,478)

70-79

80-89

90+

1%

eFigure M. Wisconsin COVID-19 Cases by Age (as of Oct. 23, 2020)

22%

Source: Wisconsin Department of Health Services https://www.dhs.wisconsin.gov/covid-19/cases.htm#by%20age

5%

2%

eTable/Figure N. Alabama COVID-19 Cases by Age (as of November 13, 2020)



Age	Cumulative Cases
0-4	3,519
5-17	15,316
18-24	25,413
25-49	68,497
50-64	37,344
65+	30,186

Source: Alabama Department of Public Health COVID-19 Dashboard Hub <u>https://bamatracker.com/chart/caseages</u>

COVID-19: characteristics of 858,585 Florida resident cases

Ca

441,75

412.38

858,58

4,44

Data through Nov 12, 2020 verified as of Nov 13, 2020 at 09:25 AM

Cases Hospitalizations Age group Deaths Gender 14,429 0-4 years Female 2% 336 1% 0 0% 5-14 years 39.056 310 Male 5% 1% 5 0% 15-24 years 140.515 1.376 Unknown 16% 3% 32 0% 25-34 years 2.870 156,421 18% 101 Total 6% 1% 35-44 years 4,282 135.609 16% 8% 302 2% 45-54 years 6,404 714 133.416 12% 16% 4% 55-64 years 111.472 1.920 13% 9.001 17% 11% 67,147 65-74 years 3,726 10,310 20% 8% 21% 75-84 years 38,283 9.751 19% 5,096 4% 29% 21,217 85+ years 2% 6.895 13% 5,549 32% Unknown 1.020 0% 7 0% 0 0% 858,585 51,542 Total 17,445

Data in this report are provisional and subject to change.

Source: Florida Department of Health, https://floridahealthcovid19.gov/

	Cases count (%) ¹ Deaths count (%) ¹ 112,483 1221			Cumulative Incidence Rate ²	Cumulative Mortality Rate	
Oklahoma			1221		2,852.7	31.0
Gender						
Male	53,835	(47.9)	680	(55.7)	2,756.5	34.8
Female	58,648	(52.1)	541	(44.3)	2,947.1	27.2
Age group						
Under 1- 4	2,126	(1.9)	0	(0.0)	816.3	0.0
5-14	6,392	(5.7)	1	(0.1)	1,188.3	0.2
15-24	22,499	(20.0)	2	(0.2)	4,183.3	0.4
25-34	19,221	(17.1)	11	(0.9)	3,538.4	2.0
35-44	17,855	(15.9)	19	(1.6)	3,641.0	3.9
45-54	15,456	(13.7)	56	(4.6)	3,357.7	12.2
55-64	13,080	(11.6)	150	(12.3)	2,650.8	30.4
65-74	8,698	(7.7)	324	(26.5)	2,425.2	90.3
75-84	4,771	(4.2)	333	(27.3)	2,541.7	177.4
85+	2,384	(2.1)	325	(26.6)	3,257.0	444.0
Unknown	1	(0.0)				

eTable/Figure P. Oklahoma COVID-19 Cases by Age (as of Oct. 22, 2020)

Source: Oklahoma State Department of Health <u>https://coronavirus.health.ok.gov/sites/g/files/gmc786/f/2020.10.23_weekly_epi_report.pdf</u>

eTable Q. Rhode Island COVID-19 Cases by Age (as of October 24, 2020)

Age	Cumulative
_	Cases
0-4	480
5-9	531
10-14	656
15-18	1174
19-24	3522
25-29	2655
30-39	4658
40-49	4125
50-59	4175
60-69	2880
70-79	1773
80+	2364
Total cases	28,993

Source: Rhode Island Department of Health (RIDOH) SalesForce COVID-19 Case Dataset https://ri-department-of-health-covid-19-case-data-rihealth.hub.arcgis.com/#age

Age Group	Number of Cases
0-4 years	2,536
5-9 years	2,624
10-14 years	3,988
15-19 years	11,769
20-24 years	16,429
25-29 years	12,611
30-34 years	11,466
35-39 years	10,447
40-44 years	9,371
45-49 years	8,916
50-54 years	8,893
55-59 years	8,242
60-64 years	6,536
65-69 years	4,415
70-74 years	3,393
75-79 years	2,561
80-84 years	2,066
85-89 years	1,754
90-94 years	1,209
95-99 years	524
100+ years	95
Unknown/missing	18
otal	129,863

eTable R. Minnesota COVID-19 Cases by Age (as of Oct. 23, 2020)

Total

Source: https://www.health.state.mn.us/diseases/coronavirus/situation.html#ageg1

Age	Missouri Number of Cases
0-9	3054
10-19	13637
20	3596
21	3512
22	2831
23	2655
24	2403
25	2316
26	2260
27	2243
28	2181
29	2114
30	2006
31	1942
32	1893
33	1762
34	1769
35	1761
36	1659
37	1761
38	1736
39	1761
40	1752
41	1554
42	1589
43	1659
44	1579
45	1654
46	1556
47	1620
48	1678
49	1783
50	1686
51	1704
52	1616

eTable S. Missouri COVID-19 Cases by Age (as of Oct. 23, 2020)

53	1619
54	1579
55	1655
56	1633
57	1677
58	1619
59	1608
60	1519
61	1477
62	1361
63	1394
64	1308
65	1188
66	1100
67	1028
68	1031
69	976
70	950
71	886
72	908
73	844
74	731
75	707
76	679
77	746
78	627
79	574
80-84	2410
85-89	1918
90+	1975
Unknown	289

Total cases: 120,298

Source: Missouri Department of Health and Senior Services https://health.mo.gov/living/healthcondiseases/communicable/novel-coronavirus/cases-by-age.php

eAppendix 4. Demographic Data by Age and by State Websites

- (i) Alaska: https://live.laborstats.alaska.gov/pop/
- (ii) Colorado: Colorado State Demography Office, Colorado Department of Local Affairs,
- https://demography.dola.colorado.gov/population/data/sya-regions/
- (iii) Michigan: https://censusreporter.org/profiles/04000US26-michigan/
- (iv) Montana: https://censusreporter.org/profiles/04000US30-montana/
- (v) Nevada: https://censusreporter.org/profiles/04000US32-nevada/
- (vi) New Mexico: https://censusreporter.org/data/table/?table=B01001&geo_ids=04000US35&primary_geo_id=04000US35
- (vii) North Dakota: https://censusreporter.org/profiles/04000US38-north-dakota/
- (viii) Oregon: https://censusreporter.org/profiles/04000US41-oregon/
- (ix) Pennsylvania: https://censusreporter.org/profiles/04000US42-pennsylvania/
- (x) South Carolina https://censusreporter.org/profiles/04000US45-south-carolina/
- (xi) South Dakota: https://www.sdstate.edu/sociology-rural-studies/census-data-center/population-change
- (xii) Tennessee: <u>https://www.tn.gov/content/dam/tn/health/documents/population/TN-Population-by-AgeGrp-Sex-Race-Ethnicity-</u>2019.pdf
- (xiii) Wisconsin: <u>https://censusreporter.org/profiles/04000US55-wisconsin/</u>
- (xiv) Alabama: https://censusreporter.org/profiles/04000US01-alabama/
- (xv) Florida: http://edr.state.fl.us/Content/populationdemographics/data/Pop_Census_Day.pdf
- (xvi) Oklahoma: https://censusreporter.org/profiles/04000US40-oklahoma/
- (xvii) Rhode Island: https://censusreporter.org/profiles/04000US44-rhode-island/
- (xviii) Minnesota: https://censusreporter.org/profiles/04000US27-minnesota/
- (xix) Missouri: https://healthapps.dhss.mo.gov/MoPhims/QueryBuilder?qbc=PNM&q=1&m=1