

Children and COVID-19: State Data Report

A joint report from the American Academy of Pediatrics and the Children's Hospital Association

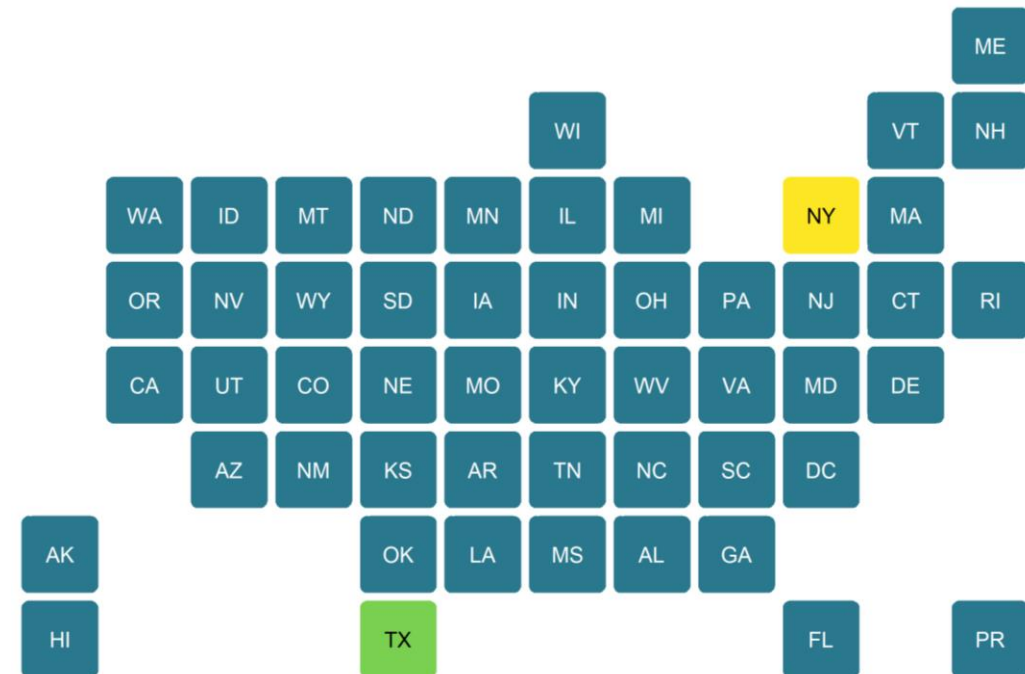
Summary of publicly reported data from 49 states, NYC, DC, PR, and GU

Version: 8/6/20

COVID-19: Available Data for Children

- State-level reports are the best publicly available data on COVID-19 cases in children
- This report summarizes what was available on 8/6/20
- **49 states, NYC, DC, Puerto Rico and Guam** provided age distributions of reported COVID-19 cases
 - 9 states provided age distribution of testing
 - 20 states and NYC provided age distribution of hospitalizations
 - 44 states and NYC provided age distribution of deaths

Fig 1A: States Reporting Age Distribution of COVID-19 Cases as of 8/6/20



Reporting age distribution of COVID-19 cases:

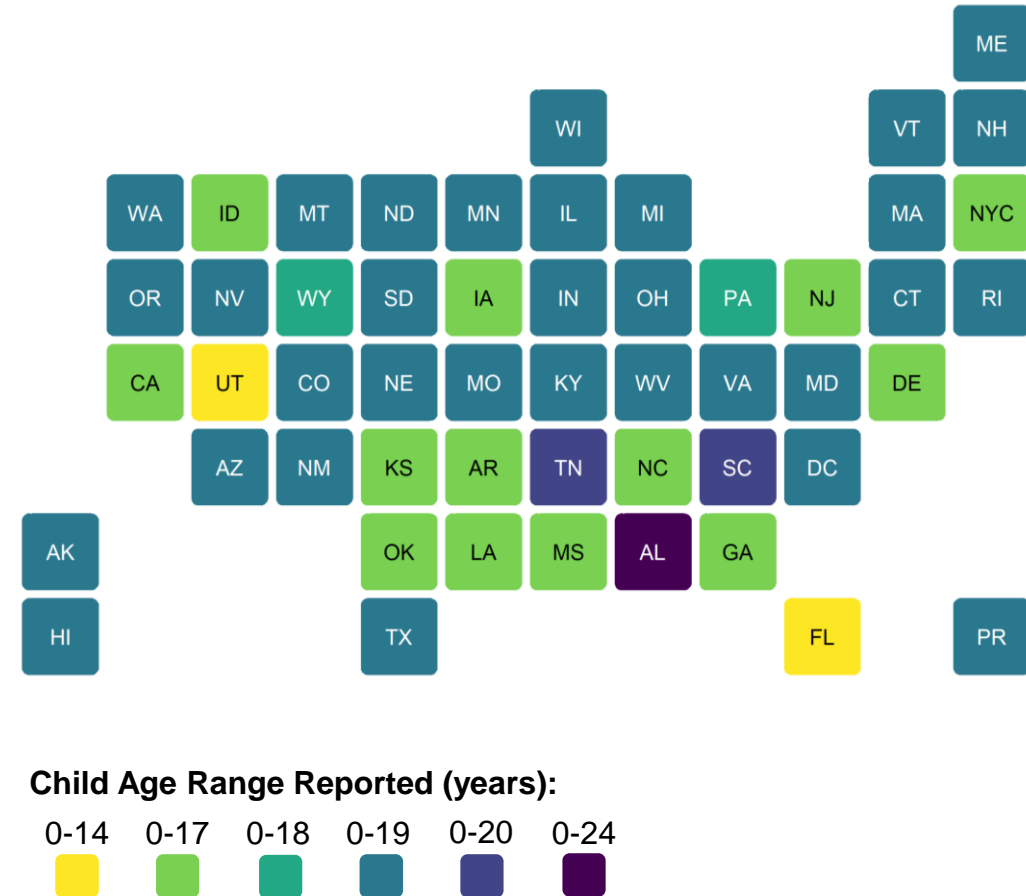
- Yes: Reported age distribution of cases
- Texas: Reported age distribution for only 8% of cases
- New York: Only NYC reported age distribution of cases

See detail in Appendix: Data from 49 states, NYC, DC, PR, and GU
Analysis by American Academy of Pediatrics and Children's Hospital Association
All data reported by state/local health departments are preliminary and subject to change

Children and COVID-19: Data Limitations

- Format, content, and metrics of reported COVID-19 data differed substantially by state
- **Definition of “child”:** Age ranges reported for children varied by state (0-14, 0-17, 0-18, 0-19, 0-20, and 0-24 years; see Fig 1B)
- New York: Did not provide age distribution for state-wide cases (NYC only)
- Texas: Reported age distribution for only 8% of all cases and is excluded from some figures
- Alabama: Reported children as ages 0-24 and is excluded from some figures
- California: Experienced [computer/data system failures](#) resulting in disruptions in reporting COVID-19 test results
- Florida: [Closed testing sites for safety](#) due to Hurricane Isaias
- Unknown: Number of children infected but not tested and confirmed

Fig 1B: Child Age Ranges of COVID-19 Cases Reported by States as of 8/6/20



See detail in Appendix: Data from 49 states, NYC, DC, PR, and GU; Analysis by American Academy of Pediatrics and Children's Hospital Association
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Children and COVID-19: 8/6/20

Summary of State-Level Data Provided in this Report

Detail and links to state/local data sources provided in Appendix

Cumulative Number of Child COVID-19 Cases*

- 380,174 total child COVID-19 cases reported, and children represented 9.1% (380,174/4,159,947) of all cases
- Overall rate: 501 cases per 100,000 children in the population

Change in Child COVID-19 Cases, 7/9/20 – 8/6/20

- 179,990 new child cases reported from 7/9-8/6 (200,184 to 380,174), **a 90% increase in child cases over 4 weeks**

Testing (9 states reported)*

- Children made up between 3%-12% of total state tests, and between 3.7%-18.6% of children tested were tested positive

Hospitalizations (20 states and NYC reported)*

- Children were 0.5%-5.3% of total reported hospitalizations, and between 0.3%-8.9% of all child COVID-19 cases resulted in hospitalization

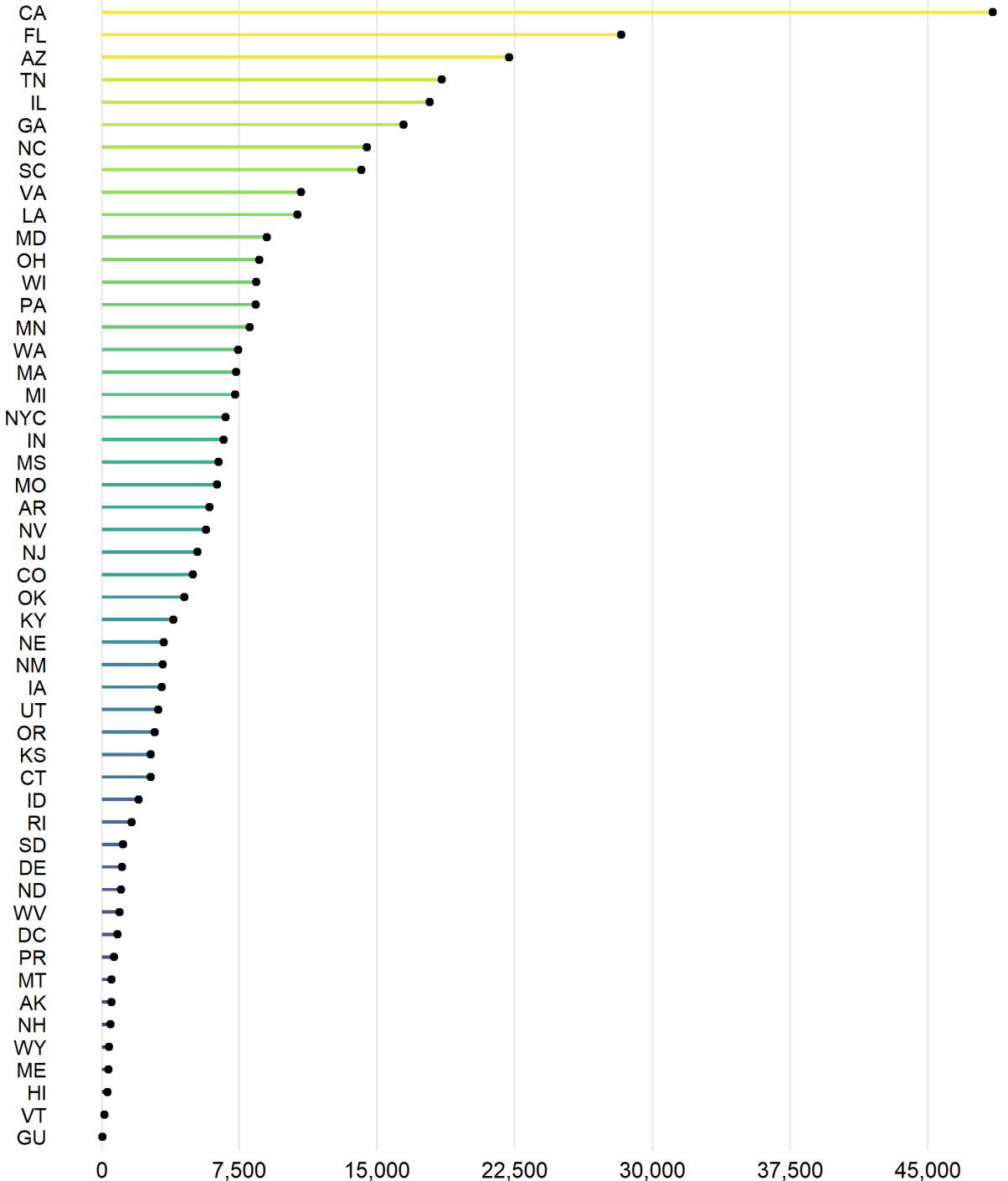
Mortality (44 states and NYC reported)*

- Children were 0%-0.4% of all COVID-19 deaths, and 19 states reported zero child deaths
- In states reporting, 0%-0.5% all child COVID-19 cases resulted in death

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
See detail in Appendix: Data from 49 states, NYC, DC, PR, and GU; Analysis by American Academy of Pediatrics and Children's Hospital Association

Fig 2. Cumulative Number of Child COVID-19 Cases: 8/6/20

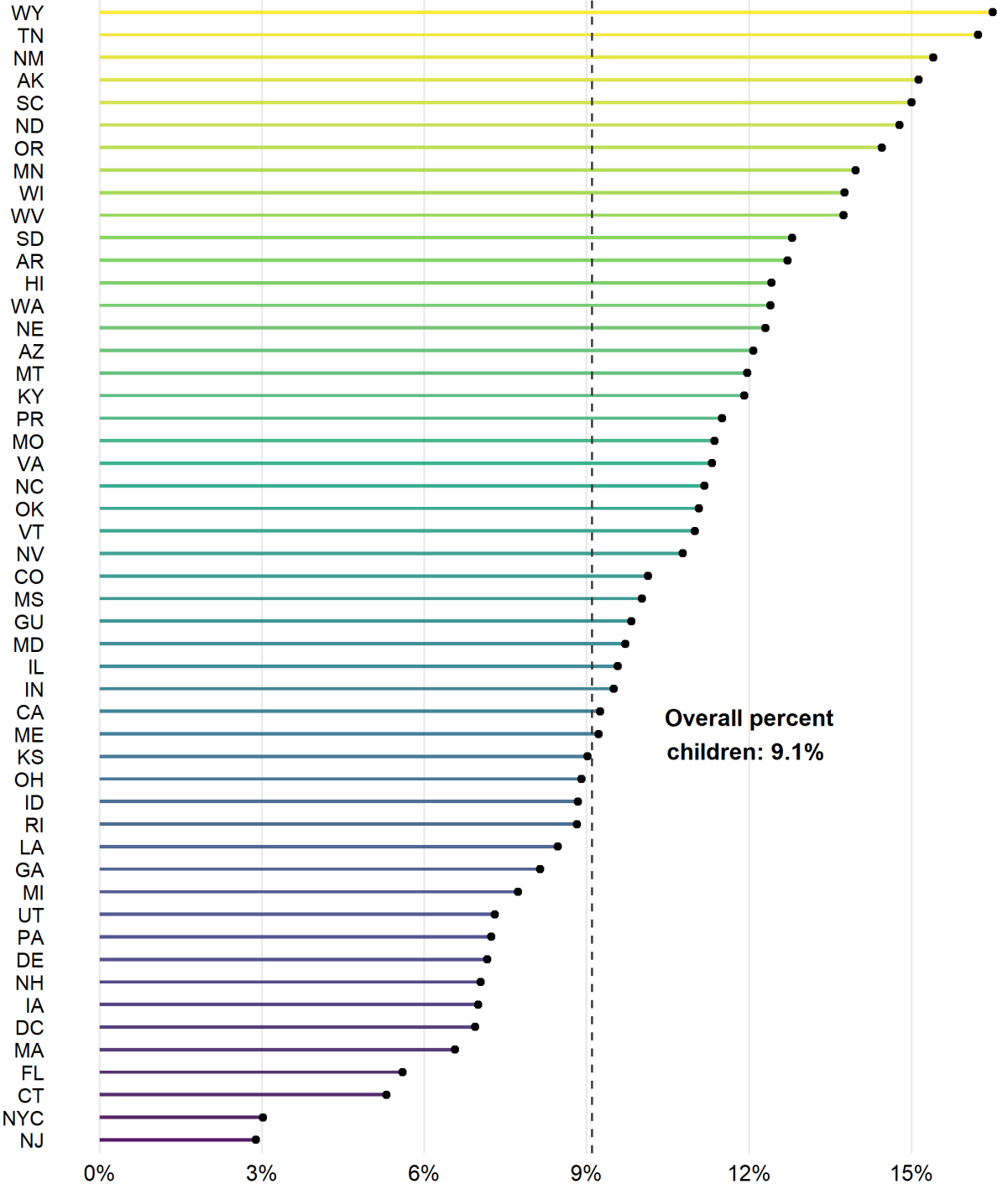
- 380,174 total child COVID-19 cases (cumulative)
- Seven states with 15,000+ cumulative child cases
- Half of states reported 5,000+ child cases
- Eight states and DC reported fewer than 1,000 child cases



See detail in Appendix: Data from 47 states, NYC, DC, PR, and GU (AL and TX excluded from figure)
 All data reported by state/local health departments are preliminary and subject to change
 Analysis by American Academy of Pediatrics and Children's Hospital Association

Fig 3. Percent of Cumulative COVID-19 Cases that were Children: 8/6/20

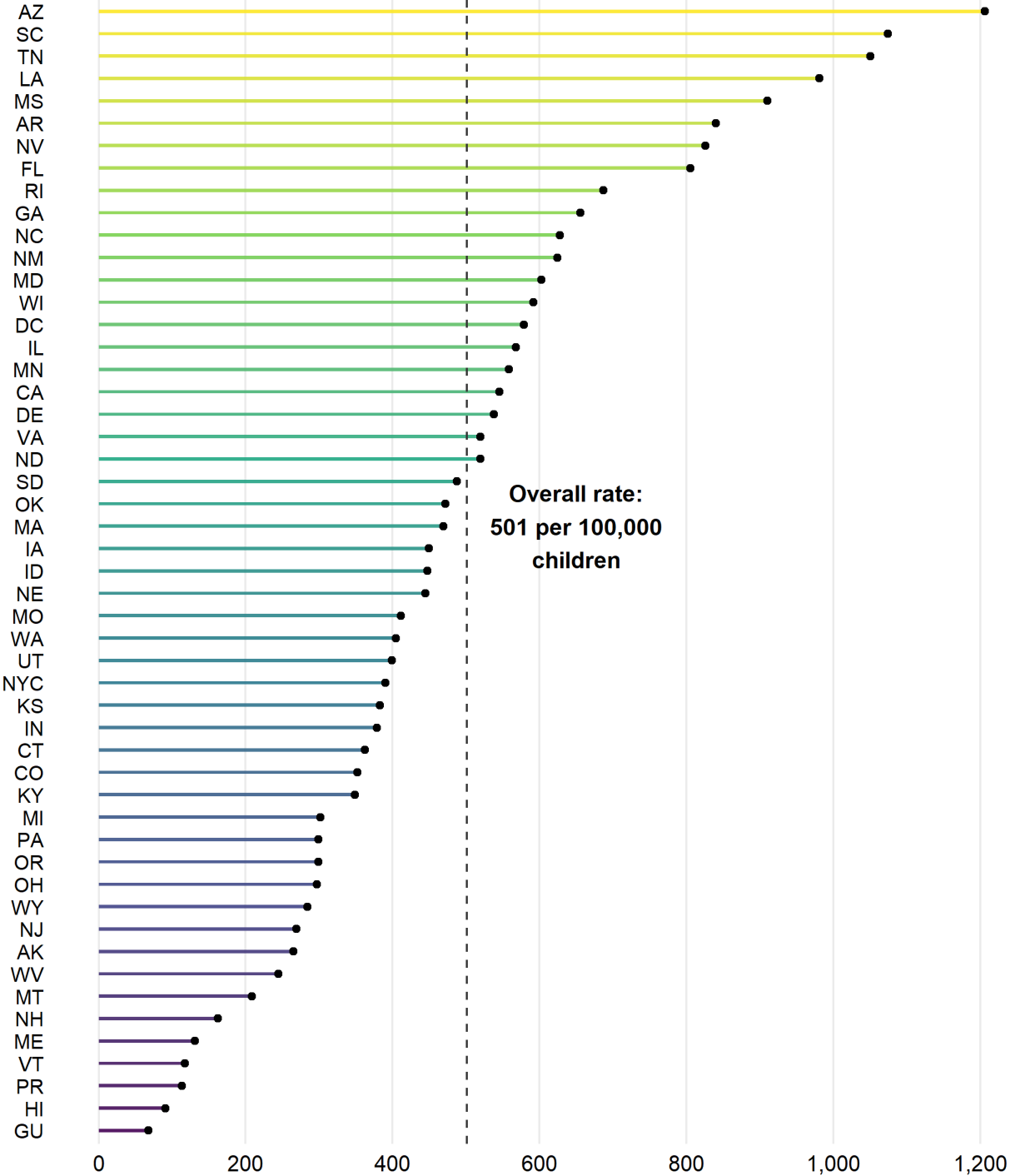
- Children represented 9.1% (380,174/4,159,947) of all available cases
- Twenty-seven states reported 10% or more of cases were children
- NJ and NYC reported that 3% or less of cases were children



See detail in Appendix: Data from 47 states, NYC, DC, PR, and GU (AL and TX excluded from figure)
 All data reported by state/local health departments are preliminary and subject to change
 Analysis by American Academy of Pediatrics and Children's Hospital Association

Fig 4. Cumulative COVID-19 Cases per 100,000 Children: 8/6/20

- Calculated using state-level population estimates from US Census Bureau (2019)*
- Overall rate: 501 child COVID-19 cases per 100,000 children in the population
- Twenty-one states and DC reported more than 500 cases per 100,000 children

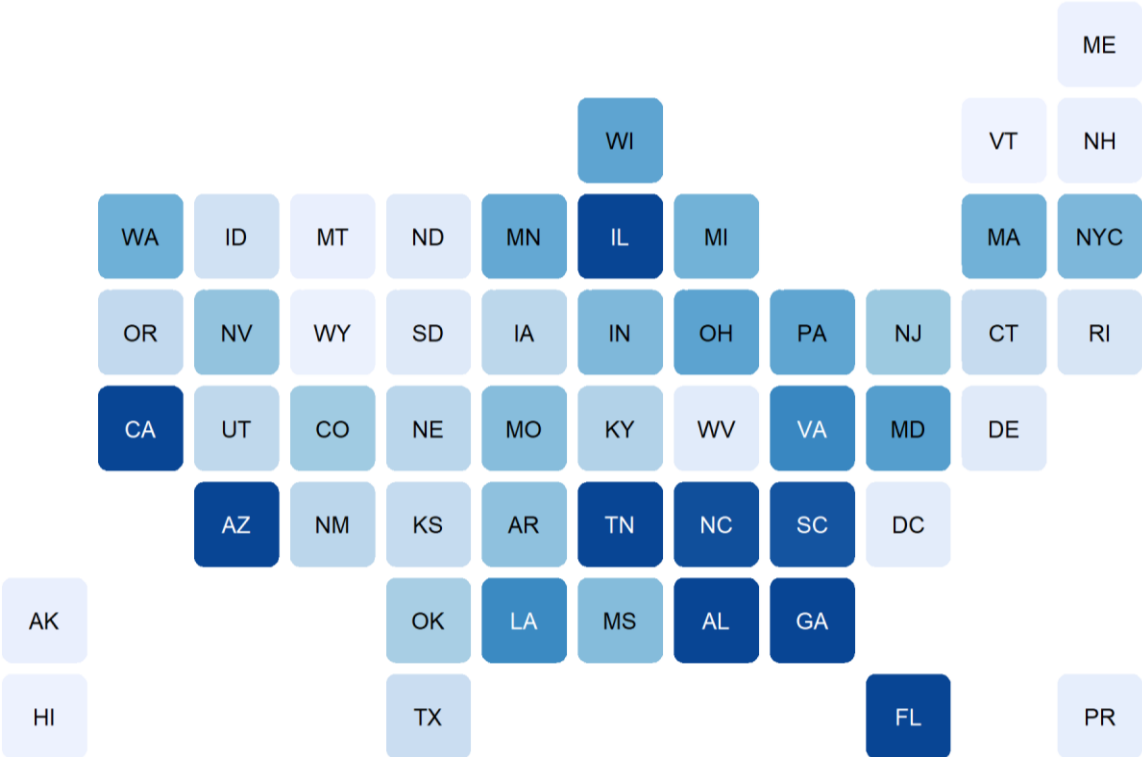


See detail in Appendix: Data from 47 states, NYC, DC, PR, and GU (AL and TX excluded from figure)
 All data reported by state/local health departments are preliminary and subject to change
 Analysis by American Academy of Pediatrics and Children's Hospital Association
 * Source: US Census Bureau, State Population by Characteristics: 2010-2019,
<https://www.census.gov/data/tables/time-series/demo/popest/2010s-state-detail.html>

Fig 5. Cumulative Child COVID-19 Cases and Percent Increase in Child Cases

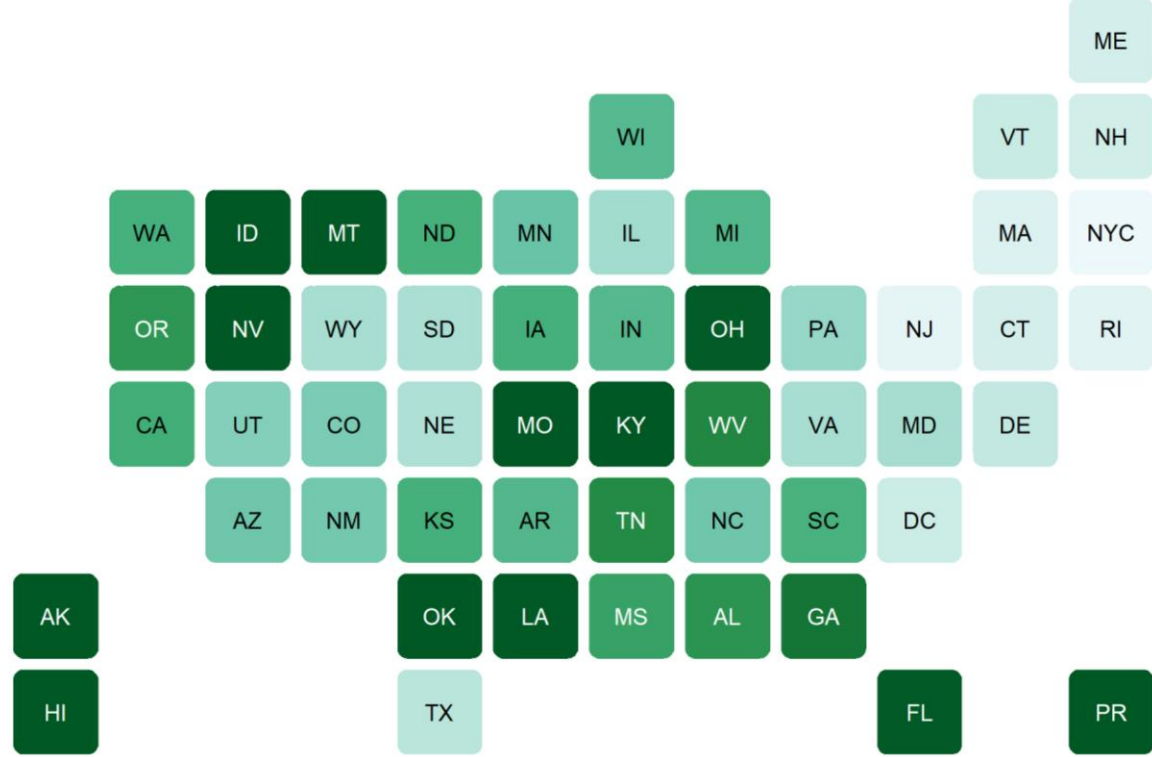
A. Cumulative Child COVID-19 Cases, 8/6/20

Seven states with 15,000+ cumulative child COVID-19 cases



B. Percent Increase in Child Cases, 7/9/20-8/6/20

From 7/9-8/6, there were 179,990 new child cases reported (200,184 to 380,174; 90% increase), with over 7 out of 10 new child cases reported from states in the South and West



Cumulative child COVID-19 cases
5000 10000 15000+

Percent increase
50 100 150+

See detail in Appendix: Data from 49 states, NYC, DC, and PR; All data reported by state/local health departments are preliminary and subject to change
Analysis by American Academy of Pediatrics and Children's Hospital Association

Appendix Table 1: Case Data Available on 8/6/20

Summary data across the 49 states, NYC, DC, PR, and GU that provided age distribution of reported COVID-19 cases*

Child population, 2019	Cumulative total cases (all ages)	Cumulative child cases	Cumulative percent children of total cases	Cases per 100,000 children
75,921,562	4,159,947	380,174	9.1%	500.7

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change

Appendix Table 2A: Summary of Child Case Data from 4/16 – 8/6*

Date	Number of locations reporting age	Cumulative total cases (all ages)	Cumulative child cases [^]	Percent children of total cases	Cases per 100,000 children
8/6/20	49 states, NYC, DC, PR, and GU	4,159,947	380,174	9.1%	500.7
7/30/20	49 states, NYC, DC, PR, and GU	3,835,573	338,982	8.8%	446.5
7/23/20	49 states, NYC, DC, PR, and GU	3,416,630	288,287	8.4%	379.7
7/16/20	49 states, NYC, DC, PR, and GU	3,042,413	241,904	8.0%	318.6
7/9/20	49 states, NYC, DC, PR, and GU	2,651,066	200,184	7.6%	263.7
7/2/20	49 states, NYC, DC, PR, and GU	2,335,060	165,845	7.1%	218.4
6/25/20	49 states, NYC, DC, PR, and GU	2,073,387	138,213	6.7%	182.0
6/18/20	49 states, NYC, DC, PR, and GU	1,885,905	116,176	6.2%	153.0
6/11/20	49 states, NYC, DC, PR, and GU	1,750,240	98,246	5.6%	129.4
6/4/20	49 states, NYC, DC, PR, and GU	1,623,334	84,016	5.2%	110.7
5/28/20	47 states, NYC, DC, PR, and GU	1,425,154	66,513	4.7%	91.5
5/21/20	47 states, NYC, DC, PR, and GU	1,288,305	54,031	4.2%	74.4
5/14/20	47 states, NYC, DC, PR, and GU	1,159,407	42,370	3.7%	58.3
5/8/20	46 states, NYC, DC, PR, and GU	1,010,112	32,568	3.2%	45.0
4/30/20	47 states, NYC, DC, and PR	849,615	23,096	2.7%	31.8
4/23/20	48 states, NYC, DC, PR, and GU	710,953	15,911	2.2%	21.2
4/16/20	46 states, NYC, and DC	456,923	9,259	2.0%	13.3

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Unknown: number of children infected but not tested and confirmed

Appendix Table 2B: Summary of Child Hospitalization Data from 5/21 – 8/6*

Date	Number of locations reporting age distribution of hospitalizations	Cumulative total hospitalizations (all ages)	Cumulative child hospitalizations	Percent children of total hospitalizations	Hospitalization rate [^]
8/6/20	20 states and NYC	206,189	3,276	1.6%	2.2%
7/30/20	20 states and NYC	195,106	2,669	1.4%	2.0%
7/23/20	20 states and NYC	181,345	2,304	1.3%	2.0%
7/16/20	20 states and NYC	172,787	2,074	1.2%	2.1%
7/9/20	20 states and NYC	164,158	1,948	1.2%	2.4%
7/2/20	20 states and NYC	156,640	1,780	1.1%	2.6%
6/25/20	20 states and NYC	151,583	1,663	1.1%	2.9%
6/18/20	19 states and NYC	140,215	1,433	1.0%	2.9%
6/11/20	19 states and NYC	134,600	1,322	1.0%	3.3%
6/4/20	19 states and NYC	128,779	1,231	1.0%	3.3%
5/28/20	16 states and NYC	114,678	1,054	0.9%	3.8%
5/21/20	17 states and NYC	105,665	891	0.8%	3.8%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Hospitalization rate = number of child hospitalizations / number of child cases

Appendix Table 2C: Summary of Child Mortality Data from 5/21 – 8/6*

Date	Number of locations reporting age distribution of deaths	Cumulative total deaths (all ages)	Cumulative child deaths	Percent children of total deaths	Percent of child cases resulting in death [^]
8/6/20	44 states and NYC	139,685	90	0.06%	0.02%
7/30/20	44 states and NYC	133,267	86	0.06%	0.03%
7/23/20	44 states and NYC	121,539	76	0.06%	0.03%
7/16/20	43 states and NYC	119,265	66	0.06%	0.03%
7/9/20	42 states and NYC	112,289	62	0.06%	0.03%
7/2/20	42 states and NYC	108,513	58	0.05%	0.04%
6/25/20	42 states and NYC	104,683	57	0.05%	0.04%
6/18/20	42 states and NYC	101,056	54	0.05%	0.05%
6/11/20	40 states and NYC	89,866	48	0.05%	0.05%
6/4/20	40 states and NYC	91,241	46	0.05%	0.06%
5/28/20	39 states and NYC	82,298	30	0.04%	0.05%
5/21/20	38 states and NYC	71,689	28	0.04%	0.06%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Number of child deaths / number of child cases

Appendix Table 3A: Child COVID-19 Case Data Available on 8/6/20*



Click location name to view original data source

Location	Age range	Child population, 2019	Cumulative child cases	Percent children of total cases	Cumulative total cases (all ages)	Cases per 100,000 children
Alabama[^]	0-24	1,538,530	21,704	22.5%	96,592	--
Alaska	0-19	196,852	522	15.1%	3,449	265.2
Arizona	0-19	1,838,598	22,180	12.1%	183,647	1206.4
Arkansas	0-17	700,155	5,883	12.7%	46,293	840.2
California	0-17	8,894,641	48,524	9.2%	524,722	545.5
Colorado	0-19	1,407,971	4,962	10.1%	48,988	352.5
Connecticut	0-19	735,193	2,662	5.3%	50,225	362.1
Delaware	0-17	203,572	1,095	7.2%	15,296	537.9
District of Columbia	0-19	149,337	864	6.9%	12,443	578.6
Florida	0-14	3,512,139	28,281	5.6%	504,768	805.2
Georgia	0-17	2,503,881	16,427	8.1%	201,713	656.1
Guam	0-19	57,727	39	9.8%	397	67.6
Hawaii	0-19	330,092	301	12.4%	2,425	91.2
Idaho	0-17	448,201	2,006	8.8%	22,707	447.6
Illinois	0-19	3,145,309	17,859	9.6%	186,471	567.8
Indiana	0-19	1,755,070	6,648	9.5%	69,975	378.8
Iowa	0-17	726,841	3,267	7.0%	46,667	449.4
Kansas	0-17	700,250	2,680	9.0%	29,717	382.7
Kentucky	0-19	1,118,934	3,900	11.9%	32,741	348.5
Louisiana	0-17	1,087,630	10,668	8.5%	125,943	980.8
Maine	0-19	281,158	368	9.2%	3,992	130.9
Maryland	0-19	1,489,721	8,980	9.7%	92,426	602.8
Massachusetts	0-19	1,558,231	7,317	6.6%	111,371	469.6
Michigan	0-19	2,407,690	7,260	7.7%	93,893	301.5
Minnesota	0-19	1,445,346	8,072	14.0%	57,779	558.5
Mississippi	0-17	698,583	6,358	10.0%	63,444	910.1
Missouri	0-19	1,527,291	6,284	11.4%	55,321	411.4

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change; ^ As of 5/7, Alabama reported child cases as ages 0-24 (previously reported ages 0-18); Cases per 100,000 children omitted for AL

Appendix Table 3B: Child COVID-19 Case Data Available on 8/6/20*

Click location name to view original data source

Location	Age range	Child population, 2019	Cumulative child cases	Percent children of total cases	Cumulative total cases (all ages)	Cases per 100,000 children
Montana	0-19	254,416	530	12.0%	4,429	208.3
Nebraska	0-19	760,272	3,381	12.3%	27,489	444.7
Nevada	0-19	688,997	5,691	10.8%	52,828	826.0
New Hampshire	0-19	291,038	473	7.0%	6,719	162.5
New Jersey	0-17	1,938,578	5,224	2.9%	180,970	269.5
New Mexico	0-19	531,712	3,321	15.4%	21,566	624.6
North Carolina	0-17	2,300,715	14,450	11.2%	129,288	628.1
North Dakota	0-19	200,777	1,043	14.8%	7,057	519.5
NYC	0-17	1,726,900	6,744	3.0%	223,186	390.5
Ohio	0-19	2,886,873	8,572	8.9%	96,305	296.9
Oklahoma	0-17	952,238	4,493	11.1%	40,564	471.8
Oregon	0-19	965,480	2,887	14.5%	19,979	299.0
Pennsylvania	0-18	2,801,187	8,379	7.2%	115,714	299.1
Puerto Rico	0-19	594,011	674	11.5%	5,861	113.5
Rhode Island	0-19	238,453	1,639	8.8%	18,579	687.3
South Carolina	0-20	1,314,988	14,129	15.0%	94,190	1074.4
South Dakota	0-19	240,567	1,173	12.8%	9,168	487.6
Tennessee	0-20	1,762,659	18,522	16.2%	114,098	1050.8
Texas[^]	0-19	8,210,585	2,398	6.3%	38,144	--
Utah	0-14	774,764	3,091	7.3%	42,328	399.0
Vermont	0-19	134,415	158	11.0%	1,436	117.5
Virginia	0-19	2,087,426	10,850	11.3%	95,867	519.8
Washington	0-19	1,840,306	7,444	12.4%	60,084	404.5
West Virginia	0-19	402,473	984	13.7%	7,159	244.4
Wisconsin	0-19	1,422,095	8,413	13.8%	61,110	591.6
Wyoming	0-18	140,694	400	16.5%	2,424	284.3

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change

[^] Texas reported age for only 8% of total confirmed cases; Cases per 100,000 children omitted for Texas

Appendix Table 4: Child Testing Data Available on 8/6/20*

COVID-19 Testing and Children

Location	Age range	Cumulative total tests (all ages)	Cumulative child tests	Percent children of total tests	Positive rate [^]
Arizona	0-19	994,625	119,215	12.0%	18.6%
Illinois	0-19	2,896,063	235,301	8.1%	7.6%
Indiana	0-19	792,225	78,430	9.9%	8.5%
Iowa	0-17	978,389	29,352	3.0%	11.1%
Missouri[#]	0-17	730,574	51,728	7.1%	12.1%
Nevada	0-19	489,247	40,719	8.3%	14.0%
Rhode Island	0-19	202,010	17,129	8.5%	9.6%
West Virginia	0-19	302,443	26,524	8.8%	3.7%
Wyoming	0-18	55,215	6,129	11.1%	6.5%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Positive rate = number of child cases / number of child tests; # MO reported age distribution for child cases as 0-19 but reported age distribution for testing as 0-17

Appendix Table 5: Child Hospitalization Data Available on 8/6/20*

COVID-19-Associated Hospitalizations and Children

Location	Age range	Cumulative child hospitalizations	Cumulative total hospitalizations (all ages)	Percent children of total hospitalizations	Hospitalization rate [^]
Arizona	0-19	739	14,068	5.3%	3.3%
Colorado	0-19	152	6,536	2.3%	3.1%
Florida	0-14	320	29,131	1.1%	1.1%
Georgia	0-17	263	19,788	1.3%	1.6%
Hawaii	0-19	1	214	0.5%	0.3%
Kansas	0-17	30	1,821	1.6%	1.1%
Massachusetts	0-19	122	11,992	1.0%	1.7%
Mississippi	0-17	60	4,472	1.3%	0.9%
Nebraska	0-19	40	1,681	2.4%	1.2%
New Hampshire	0-19	9	698	1.3%	1.9%
New Jersey	0-17	208	21,565	1.0%	4.0%
North Dakota	0-19	5	394	1.3%	0.5%
NYC	0-17	600	56,414	1.1%	8.9%
Ohio	0-19	217	11,231	1.9%	2.5%
Oregon	0-19	41	1,726	2.4%	1.4%
Rhode Island	0-19	47	2,234	2.1%	2.9%
South Dakota	0-19	25	856	2.9%	2.1%
Utah	0-14	41	2,519	1.6%	1.3%
Virginia	0-19	152	8,183	1.9%	1.4%
Washington	0-19	80	5,840	1.4%	1.1%
Wisconsin	0-19	124	4,826	1.0%	1.5%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Hospitalization rate = number of child hospitalizations / number of child cases

Appendix Table 6A: Child Mortality Data Available on 8/6/20*

COVID-19-Associated Deaths and Children

Location	Age range	Cumulative child deaths	Cumulative total deaths (all ages)	Percent children of total deaths	Percent of child cases resulting in death [^]
Alabama	0-24	6	1,714	0.4%	0.0%
Arizona	0-19	11	4,002	0.3%	0.0%
Arkansas	0-17	0	508	0.0%	0.0%
California	0-17	1	9,520	0.0%	0.0%
Colorado	0-19	3	1,851	0.2%	0.1%
Connecticut	0-19	2	4,437	0.0%	0.1%
Delaware	0-17	0	587	0.0%	0.0%
District of Columbia	0-19	0	587	0.0%	0.0%
Florida	0-14	3	7,747	0.0%	0.0%
Georgia	0-17	1	3,984	0.0%	0.0%
Hawaii	0-19	0	27	0.0%	0.0%
Idaho	0-17	0	217	0.0%	0.0%
Illinois	0-19	5	7,573	0.1%	0.0%
Indiana	0-19	3	2,805	0.1%	0.0%
Iowa	0-17	0	899	0.0%	0.0%
Kansas	0-17	0	368	0.0%	0.0%
Kentucky	0-19	1	752	0.1%	0.0%
Louisiana	0-17	4	3,978	0.1%	0.0%
Maine	0-19	0	123	0.0%	0.0%
Maryland	0-19	1	3,402	0.0%	0.0%
Massachusetts	0-19	0	8,438	0.0%	0.0%
Michigan	0-19	0	6,478	0.0%	0.0%
Minnesota	0-19	1	1,629	0.1%	0.0%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change; ^ Number of child deaths / number of child cases

Appendix Table 6B: Child Mortality Data Available on 8/6/20*

COVID-19-Associated Deaths and Children

Location	Age range	Cumulative child deaths	Cumulative total deaths (all ages)	Percent children of total deaths	Percent of child cases resulting in death [^]
Mississippi	0-17	0	1,804	0.0%	0.0%
Missouri	0-19	2	1,272	0.2%	0.0%
Nebraska	0-19	1	335	0.3%	0.0%
Nevada	0-19	3	890	0.3%	0.1%
New Hampshire	0-19	0	418	0.0%	0.0%
New Jersey	0-17	2	13,934	0.0%	0.0%
North Carolina	0-17	1	2,050	0.0%	0.0%
North Dakota	0-19	0	108	0.0%	0.0%
NYC	0-17	13	18,937	0.1%	0.2%
Ohio	0-19	2	3,596	0.1%	0.0%
Oklahoma	0-17	1	583	0.2%	0.0%
Oregon	0-19	0	338	0.0%	0.0%
Pennsylvania	0-18	0	7,244	0.0%	0.0%
Rhode Island	0-19	1	1,008	0.1%	0.1%
South Carolina	0-20	4	1,847	0.2%	0.0%
South Dakota	0-19	0	137	0.0%	0.0%
Tennessee	0-20	4	1,104	0.4%	0.0%
Texas[#]	0-19	13	7,497	0.2%	0.5%
Vermont	0-19	0	57	0.0%	0.0%
Virginia	0-19	0	2,299	0.0%	0.0%
Washington	0-19	2	1,624	0.1%	0.0%
Wisconsin	0-19	0	977	0.0%	0.0%

* Note: Data represent cumulative counts since states began reporting; All data reported by state/local health departments are preliminary and subject to change
[^] Number of child deaths / number of child cases; # As of 7/30, Texas provided age distribution for all COVID-19-associated deaths (previously provided for only a subset)

Contact Information and Resources

This a joint report from the [American Academy of Pediatrics](#) and the [Children's Hospital Association](#)

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- Visit the [AAP Critical Updates](#) site for daily updates, resources, and guidance on COVID-19 and pediatrics