

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: 7/30/20



CHILDREN'S
HOSPITAL
ASSOCIATION

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN®



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 7/30/20
- **49 states, NYC, DC, Puerto Rico and Guam** provided age distributions of reported COVID-19 cases
 - 8 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 7/30/20



Reporting age distribution of COVID-19 cases:

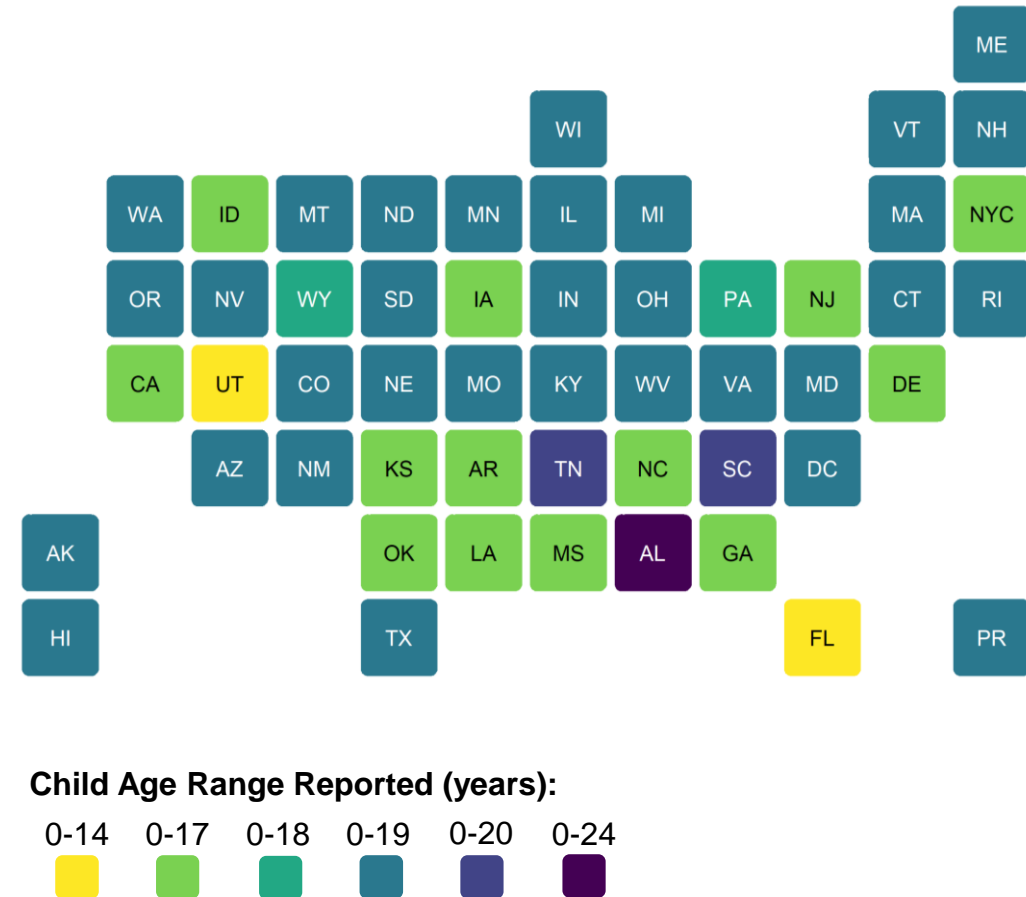
- Yes: Reported age distribution of cases
- Texas: Reported age distribution for only 8% of cases
- New York: Only NYC reported age distribution of cases

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
- Unknown: number of children infected but not tested and confirmed

Fig 1B: Child Age Ranges of COVID-19 Cases Reported by States as of 7/30/20



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

Children and COVID-19: 7/30/20

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*

- 338,982 total child COVID-19 cases reported, and children represented 8.8% (338,982/3,835,573) of all cases
- Overall rate: 447 cases per 100,000 children in the population

Change in Child COVID-19 Cases, 7/16/20 – 7/30/20

- 97,078 new child cases reported from 7/16-7/30 (241,904 to 338,982), a 40% increase in child cases

Testing (8 states reported)*

- Children made up between 3%-11% of total state tests, and between 3.6%-17.8% of children tested were tested positive

Hospitalizations (20 states and NYC reported)*

- Children were 0.6%-3.7% of total reported hospitalizations, and between 0.6%-8.9% of all child COVID-19 cases resulted in hospitalization

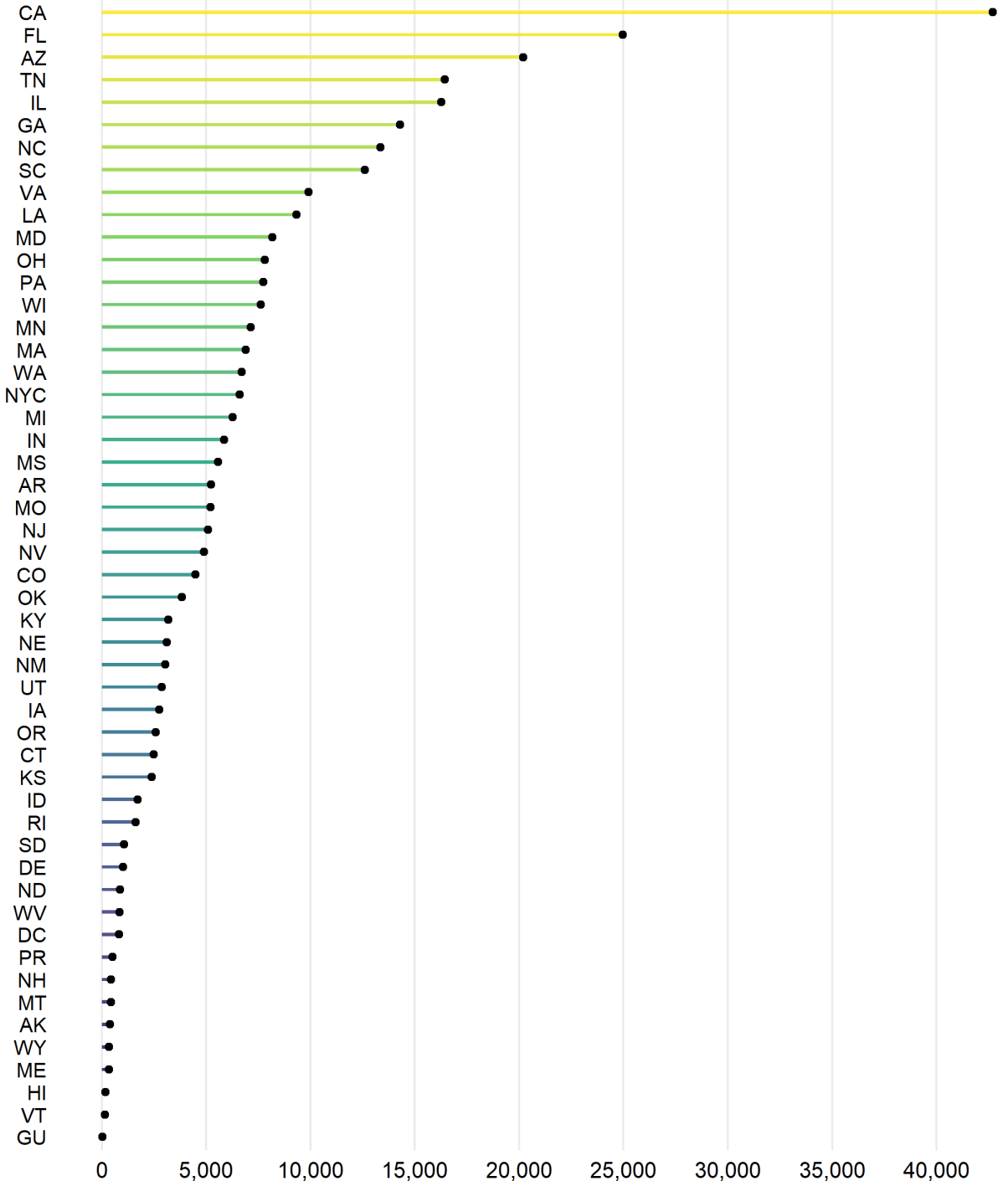
Mortality (44 states and NYC reported)*

- Children were 0%-0.8% of all COVID-19 deaths, and 20 states reported zero child deaths
- In states reporting, 0%-0.3% of 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: 7/30/20

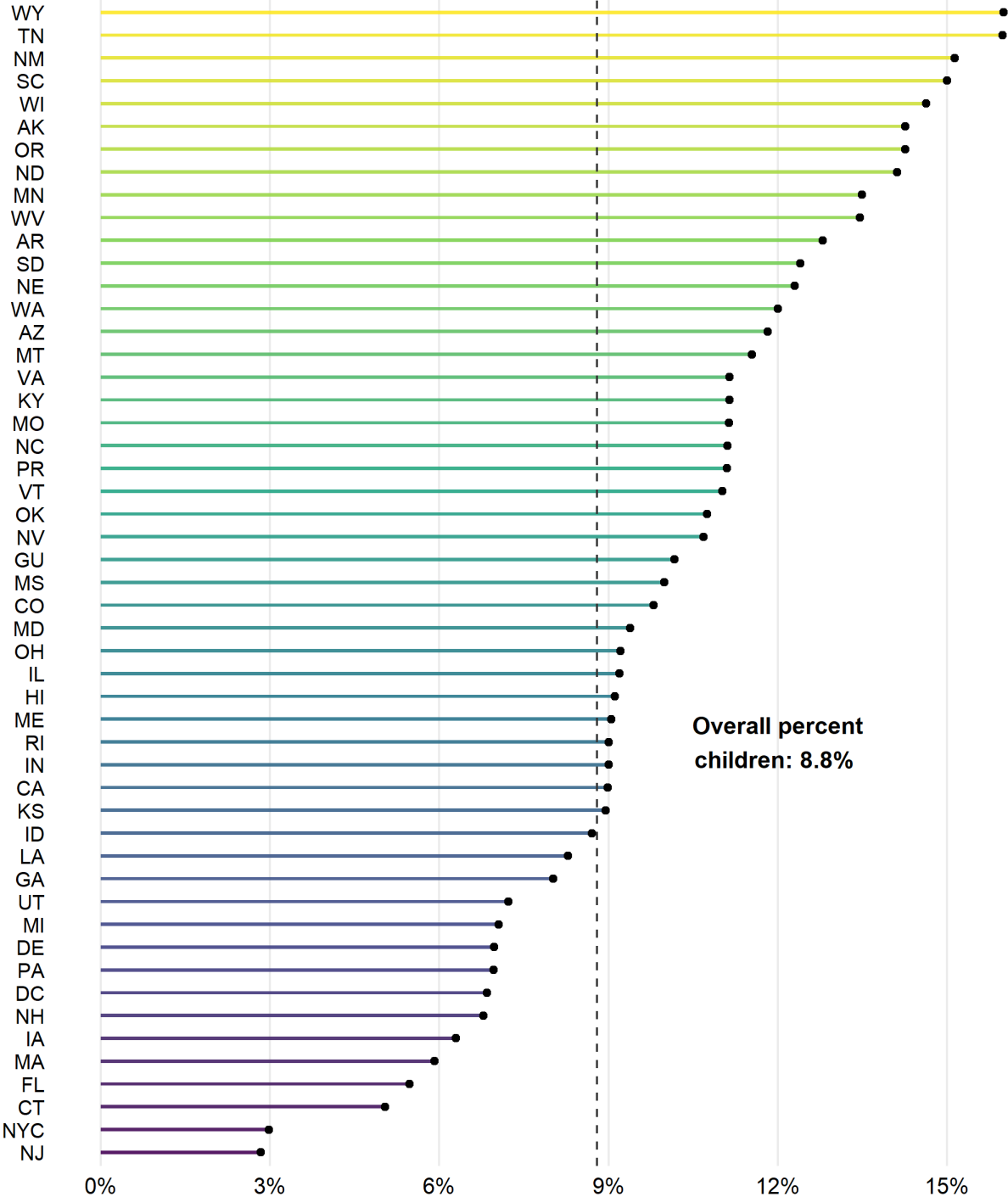
- 338,982 total child COVID-19 cases (cumulative)
- Six states with 15,000+ cumulative child cases
- Half of states reported 5,000+ child cases
- Ten states reported fewer than 1,000 child cases



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: 7/30/20

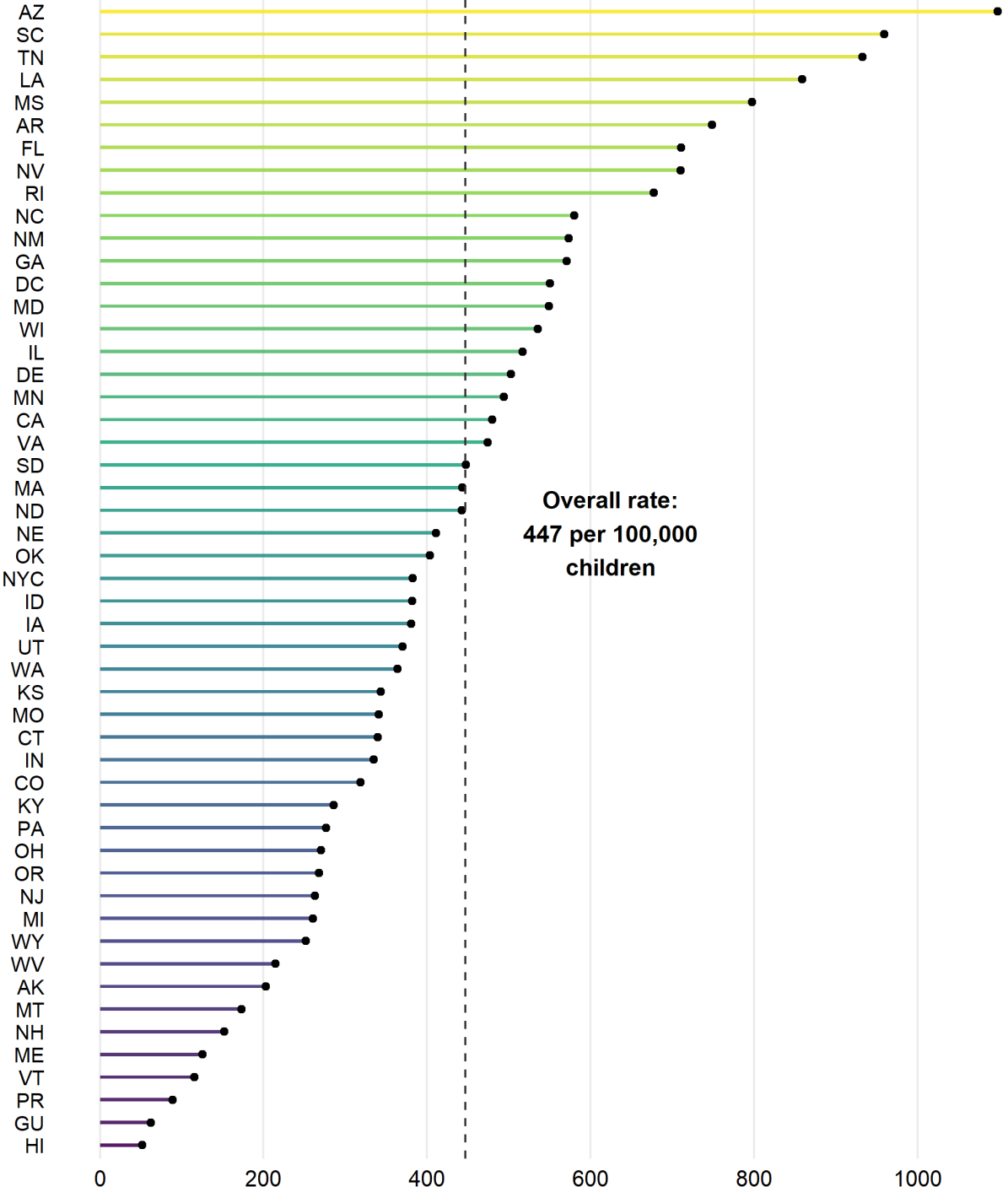
- Children represented 8.8% (338,982/3,835,573) of all available cases
- Twenty-five states reported 10% or more of cases were children
- NJ and NYC reported that 3% or less of cases were children



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: 7/30/20

- Calculated using state-level population estimates from US Census Bureau (2019)*
- Overall rate: 447 child COVID-19 cases per 100,000 children in the population
- Seventeen states and DC reported more than 500 cases per 100,000 children

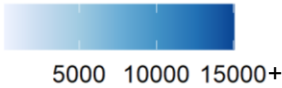
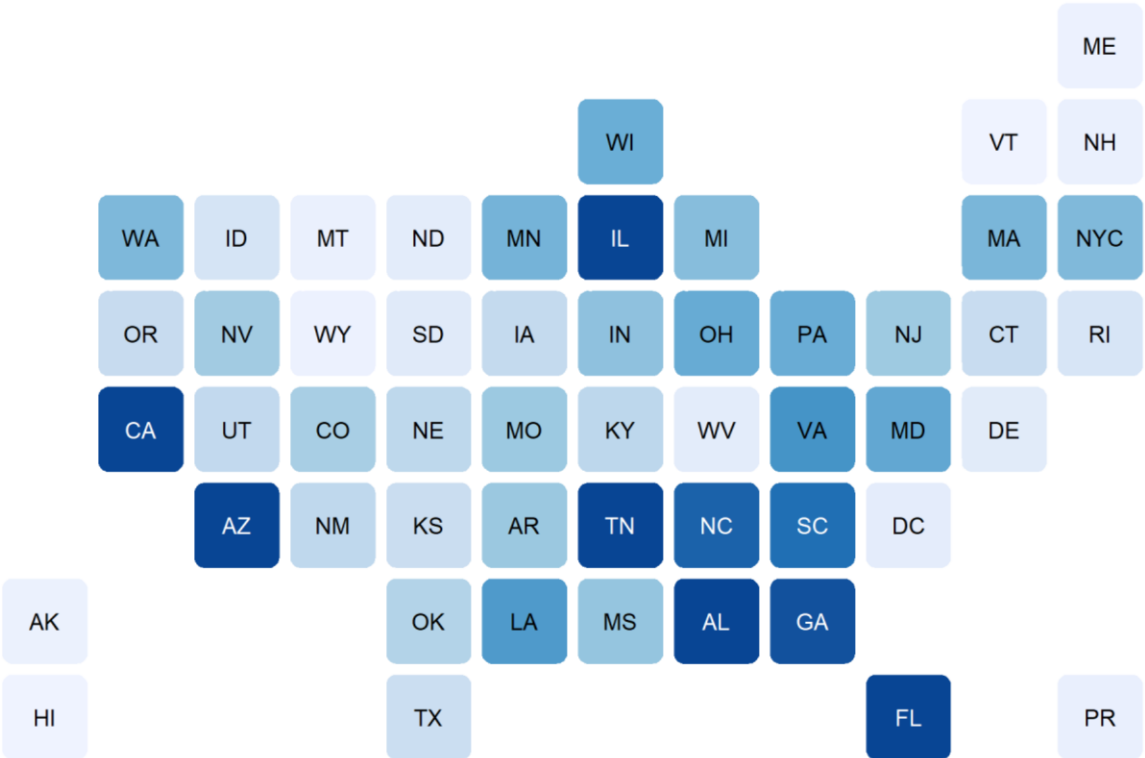


See detail in Appendix: Data from 47 states, NYC, DC, PR, and GU (AL and TX excluded from figure)
 All data reported by state/local health departments are preliminary and subject to change
 Analysis by American Academy of Pediatrics and Children's Hospital Association
 * Source: US Census Bureau, State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

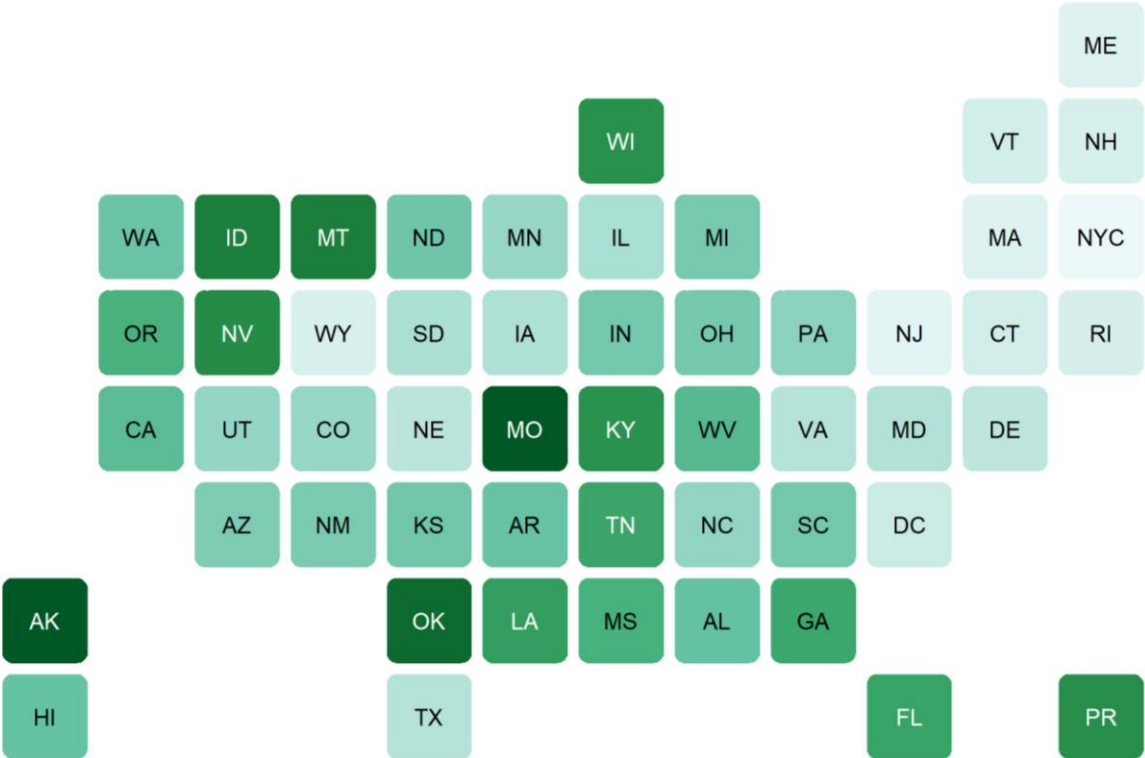
A. Cumulative Child COVID-19 Cases, 7/30/20

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



B. Percent Increase in Child Cases, 7/16/20-7/30/20

From 7/16-7/30, there were 97,078 new child cases reported (241,904 to 338,982; 40% increase), with over 7 out of 10 new child cases reported from states in the South and West



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 7/30/20

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	3,835,573	338,982	8.8%	446.5

* 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 – 7/30*

Date	Number of locations reporting age	Cumulative total cases (all ages)	Cumulative child cases [^]	Percent children of total cases	Cases per 100,000 children
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
5/7/300	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 – 7/30*

Date	Number of locations reporting age distribution of hospitalizations	Cumulative total hospitalizations (all ages)	Cumulative child hospitalizations	Percent children of total hospitalizations	Hospitalization rate [^]
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 – 7/30*

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 [^]
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 7/30/20*



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	18,027	22.1%	81,572	--
Alaska	0-19	196,852	399	14.3%	2,797	202.6
Arizona	0-19	1,838,598	20,190	11.8%	170,798	1098.1
Arkansas	0-17	700,155	5,241	12.8%	40,968	748.5
California	0-17	8,894,641	42,697	9.0%	475,305	480.0
Colorado	0-19	1,407,971	4,488	9.8%	45,796	318.8
Connecticut	0-19	735,193	2,497	5.0%	49,540	339.6
Delaware	0-17	203,572	1,024	7.0%	14,689	503.0
District of Columbia	0-19	149,337	822	6.9%	11,999	550.4
Florida	0-14	3,512,139	24,974	5.5%	456,105	711.1
Georgia	0-17	2,503,881	14,295	8.0%	178,323	570.9
Guam	0-19	57,727	36	10.2%	354	62.4
Hawaii	0-19	330,092	170	9.1%	1,865	51.5
Idaho	0-17	448,201	1,713	8.7%	19,679	382.2
Illinois	0-19	3,145,309	16,262	9.2%	176,896	517.0
Indiana	0-19	1,755,070	5,873	9.0%	65,253	334.6
Iowa	0-17	726,841	2,766	6.3%	43,901	380.5
Kansas	0-17	700,250	2,404	8.9%	26,870	343.3
Kentucky	0-19	1,118,934	3,200	11.1%	28,727	286.0
Louisiana	0-17	1,087,630	9,344	8.3%	112,773	859.1
Maine	0-19	281,158	352	9.1%	3,888	125.2
Maryland	0-19	1,489,721	8,180	9.4%	87,177	549.1
Massachusetts	0-19	1,558,231	6,903	5.9%	116,684	443.0
Michigan	0-19	2,407,690	6,275	7.1%	88,974	260.6
Minnesota	0-19	1,445,346	7,141	13.5%	52,947	494.1
Mississippi	0-17	698,583	5,573	10.0%	55,804	797.8
Missouri	0-19	1,527,291	5,205	11.1%	46,750	340.8

* 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 7/30/20*



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	440	11.5%	3,814	172.9
Nebraska	0-19	760,272	3,127	12.3%	25,422	411.3
Nevada	0-19	688,997	4,892	10.7%	45,806	710.0
New Hampshire	0-19	291,038	442	6.8%	6,513	151.9
New Jersey	0-17	1,938,578	5,097	2.8%	179,812	262.9
New Mexico	0-19	531,712	3,047	15.1%	20,136	573.1
North Carolina	0-17	2,300,715	13,346	11.1%	120,194	580.1
North Dakota	0-19	200,777	889	14.1%	6,301	442.8
NYC	0-17	1,726,900	6,608	3.0%	221,534	382.7
Ohio	0-19	2,886,873	7,815	9.2%	84,862	270.7
Oklahoma	0-17	952,238	3,842	10.7%	35,740	403.5
Oregon	0-19	965,480	2,585	14.3%	18,131	267.7
Pennsylvania	0-18	2,801,187	7,740	7.0%	111,078	276.3
Puerto Rico	0-19	594,011	528	11.1%	4,759	88.9
Rhode Island	0-19	238,453	1,616	9.0%	17,951	677.5
South Carolina	0-20	1,314,988	12,616	15.0%	84,109	959.4
South Dakota	0-19	240,567	1,077	12.4%	8,685	447.7
Tennessee	0-20	1,762,659	16,436	16.0%	102,871	932.5
Texas[^]	0-19	8,210,585	2,326	6.7%	34,864	--
Utah	0-14	774,764	2,868	7.2%	39,696	370.2
Vermont	0-19	134,415	155	11.0%	1,407	115.3
Virginia	0-19	2,087,426	9,904	11.1%	88,904	474.5
Washington	0-19	1,840,306	6,696	12.0%	55,803	363.9
West Virginia	0-19	402,473	864	13.5%	6,422	214.6
Wisconsin	0-19	1,422,095	7,620	14.6%	52,108	535.8
Wyoming	0-18	140,694	355	16.0%	2,217	252.1

* 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 7/30/20*

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	1,139,572	113,619	10.0%	17.8%
Illinois	0-19	2,649,786	207,920	7.8%	7.8%
Indiana	0-19	735,848	69,906	9.5%	8.4%
Iowa	0-17	954,203	28,626	3.0%	9.7%
Missouri	0-19	660,899	45,688	6.9%	11.4%
Nevada	0-19	456,602	36,527	8.0%	13.4%
West Virginia	0-19	277,343	23,768	8.6%	3.6%
Wyoming	0-18	74,891	8,238	11.0%	4.3%

* 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

Appendix Table 5: Child Hospitalization Data Available on 7/30/20*

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	410	11,172	3.7%	2.0%
Colorado	0-19	148	6,398	2.3%	3.3%
Florida	0-14	147	26,017	0.6%	0.6%
Georgia	0-17	232	17,964	1.3%	1.6%
Hawaii	0-19	1	173	0.6%	0.6%
Kansas	0-17	27	1,700	1.6%	1.1%
Massachusetts	0-19	118	11,875	1.0%	1.7%
Mississippi	0-17	54	4,152	1.3%	1.0%
Nebraska	0-19	40	1,610	2.5%	1.3%
New Hampshire	0-19	9	690	1.3%	2.0%
New Jersey	0-17	198	21,321	0.9%	3.9%
North Dakota	0-19	5	356	1.4%	0.6%
NYC	0-17	590	56,132	1.1%	8.9%
Ohio	0-19	204	10,678	1.9%	2.6%
Oregon	0-19	37	1,587	2.3%	1.4%
Rhode Island	0-19	44	2,176	2.0%	2.7%
South Dakota	0-19	24	815	2.9%	2.2%
Utah	0-14	36	2,346	1.5%	1.3%
Virginia	0-19	144	7,786	1.8%	1.5%
Washington	0-19	82	5,568	1.5%	1.2%
Wisconsin	0-19	120	4,590	1.0%	1.6%

* 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 7/30/20*

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	1,489	0.4%	0.0%
Arizona	0-19	12	3,626	0.3%	0.1%
Arkansas	0-17	0	434	0.0%	0.0%
California	0-17	0	8,516	0.0%	0.0%
Colorado	0-19	3	1,822	0.2%	0.1%
Connecticut	0-19	2	4,425	0.0%	0.1%
Delaware	0-17	0	581	0.0%	0.0%
District of Columbia	0-19	0	584	0.0%	0.0%
Florida	0-14	3	6,586	0.0%	0.0%
Georgia	0-17	1	3,642	0.0%	0.0%
Hawaii	0-19	0	26	0.0%	0.0%
Idaho	0-17	0	173	0.0%	0.0%
Illinois	0-19	5	7,478	0.1%	0.0%
Indiana	0-19	3	2,746	0.1%	0.0%
Iowa	0-17	0	855	0.0%	0.0%
Kansas	0-17	0	349	0.0%	0.0%
Kentucky	0-19	1	724	0.1%	0.0%
Louisiana	0-17	4	3,769	0.1%	0.0%
Maine	0-19	1	122	0.8%	0.3%
Maryland	0-19	1	3,488	0.0%	0.0%
Massachusetts	0-19	0	8,580	0.0%	0.0%
Michigan	0-19	4	6,422	0.1%	0.1%
Minnesota	0-19	1	1,589	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 7/30/20*

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	1,563	0.0%	0.0%
Missouri	0-19	1	1,220	0.1%	0.0%
Nebraska	0-19	1	324	0.3%	0.0%
Nevada	0-19	3	780	0.4%	0.1%
New Hampshire	0-19	0	411	0.0%	0.0%
New Jersey	0-17	2	13,884	0.0%	0.0%
North Carolina	0-17	1	1,903	0.1%	0.0%
North Dakota	0-19	0	103	0.0%	0.0%
NYC	0-17	13	18,898	0.1%	0.2%
Ohio	0-19	2	3,442	0.1%	0.0%
Oklahoma	0-17	1	536	0.2%	0.0%
Oregon	0-19	0	316	0.0%	0.0%
Pennsylvania	0-18	0	7,176	0.0%	0.0%
Rhode Island	0-19	0	1,003	0.0%	0.0%
South Carolina	0-20	3	1,565	0.2%	0.0%
South Dakota	0-19	0	129	0.0%	0.0%
Tennessee	0-20	5	1,033	0.5%	0.0%
Texas[#]	0-19	7	6,274	0.1%	0.3%
Vermont	0-19	0	57	0.0%	0.0%
Virginia	0-19	0	2,141	0.0%	0.0%
Washington	0-19	0	1,564	0.0%	0.0%
Wisconsin	0-19	0	919	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 report is a collaborative effort from the American Academy of Pediatrics and the Children’s Hospital Association – for questions about this report, please contact:

Blake Sisk, PhD

Senior Research Associate

American Academy of Pediatrics

bsisk@aap.org

Mitch Harris, PhD

Director of Research

Children’s Hospital Association

Mitch.Harris@childrenshospitals.org

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