

Children and COVID-19: State Data Report

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

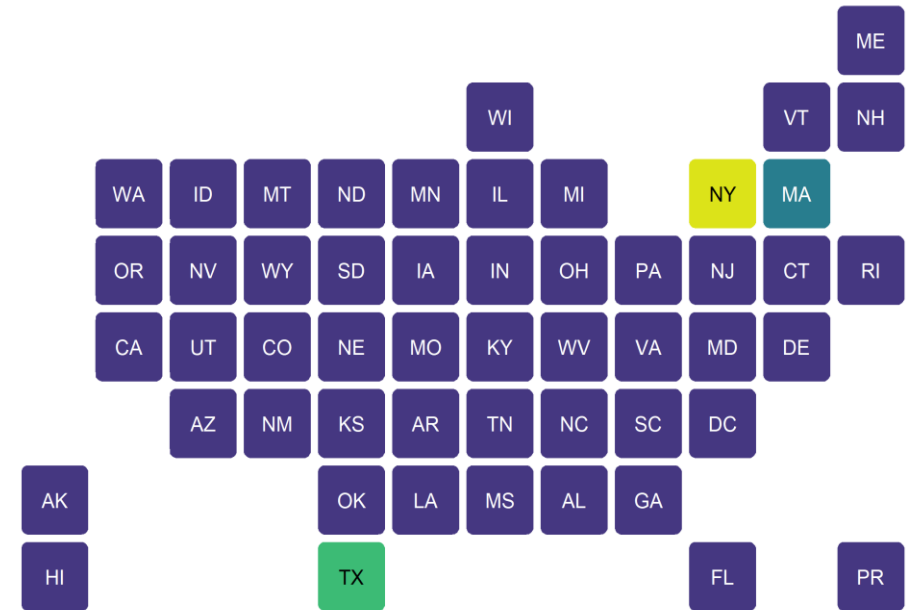
Summary of publicly reported data from 49 states, NYC, DC, PR, and GU

Version: 12/24/20

COVID-19: Available Data for Children

- State-level reports are the best publicly available data on COVID-19 cases in children
- This report summarizes the data that were available on 12/24/20 for number of cases. Due to the holiday, information on testing, hospitalizations, and deaths are not included.
- **49 states, NYC, DC, Puerto Rico and Guam** provided age distributions of reported COVID-19 cases

Fig 1A: States Reporting Age Distribution of COVID-19 Cases as of 12/24/20



Reporting age distribution of COVID-19 cases:

- Yes: Reported age distribution of cases
- TX: Reported age distribution for only 5% of cases
- NY: Only NYC reported age distribution of cases
- MA: Only reported age distribution of cases added in past 2 weeks

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

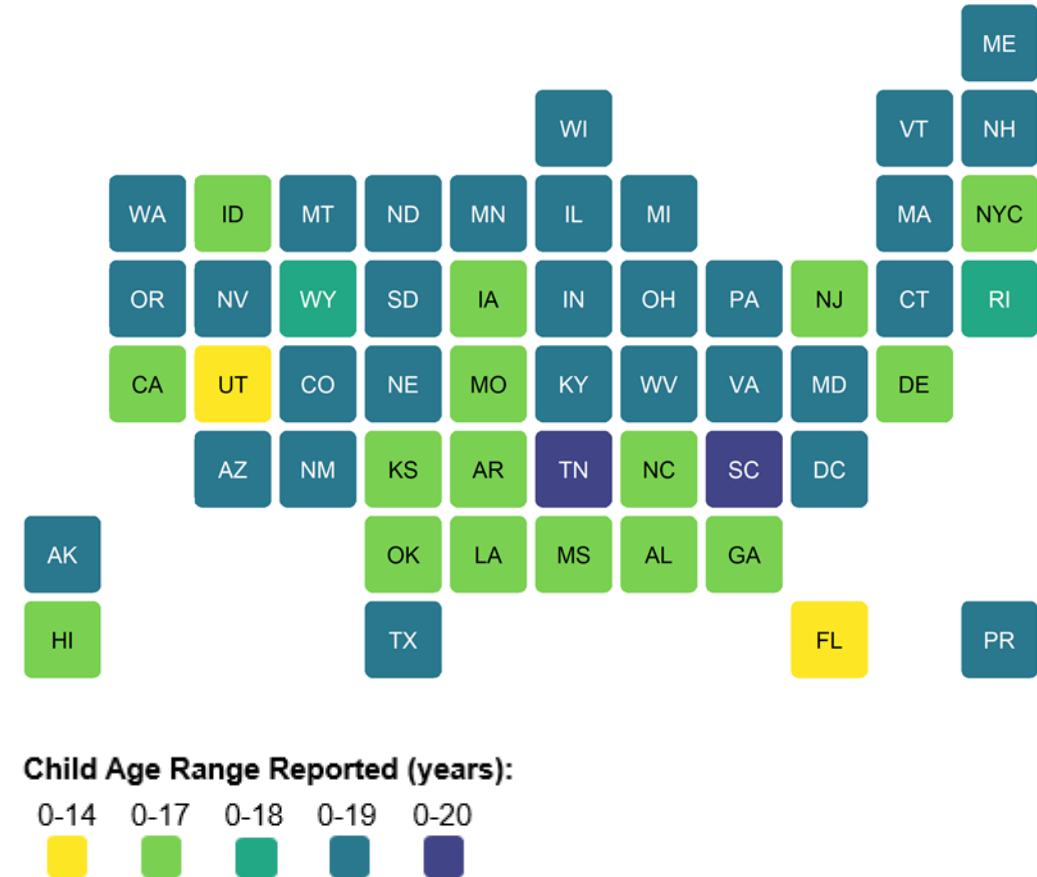
General Limitations

- 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, and 0-20 years; see Fig 1B)
- Unknown: Number of children infected but not tested and confirmed

State-Level Limitations

- NY: Did not provide age distribution for state-wide cases (NYC only)
- TX: Age distribution reported for only 5% of confirmed cases (66,948/1,431,416), resulting in an undercount of child cases; TX is excluded from some figures
- AL: As of 8/13, changed definition of child case from 0-24 to 0-17 years; as of 9/17, provided age distribution for confirmed cases only
- HI: As of 8/27, changed definition of child case from 0-19 to 0-17 years
- MA: As of 9/3: revised definition of probable case, leading to reduction in total case count; reported age distribution of cases added in last two weeks but not for total cases to date
- RI: As of 9/10, changed definition of child case from 0-19 to 0-18 years
- MO: As of 10/1, changed definition of child cases from 0-19 to 0-17 years

Fig 1B: Child Age Ranges of COVID-19 Cases Reported by States as of 12/24/20



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: 12/24/20

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*

- 2,000,681 total child COVID-19 cases reported, and children represented 12.4% (2,000,681/16,125,324) of all cases
- Overall rate: 2,658 cases per 100,000 children in the population

Change in Child COVID-19 Cases*

- 178,935 new child COVID-19 cases were reported the past week from 12/17-12/24 (1,821,746 to 2,000,681)
- Over two weeks, 12/10-12/24, there was a 22% increase in child COVID-19 cases (360,953 new cases (1,639,728 to 2,000,681))

Testing, Hospitalization, and Mortality

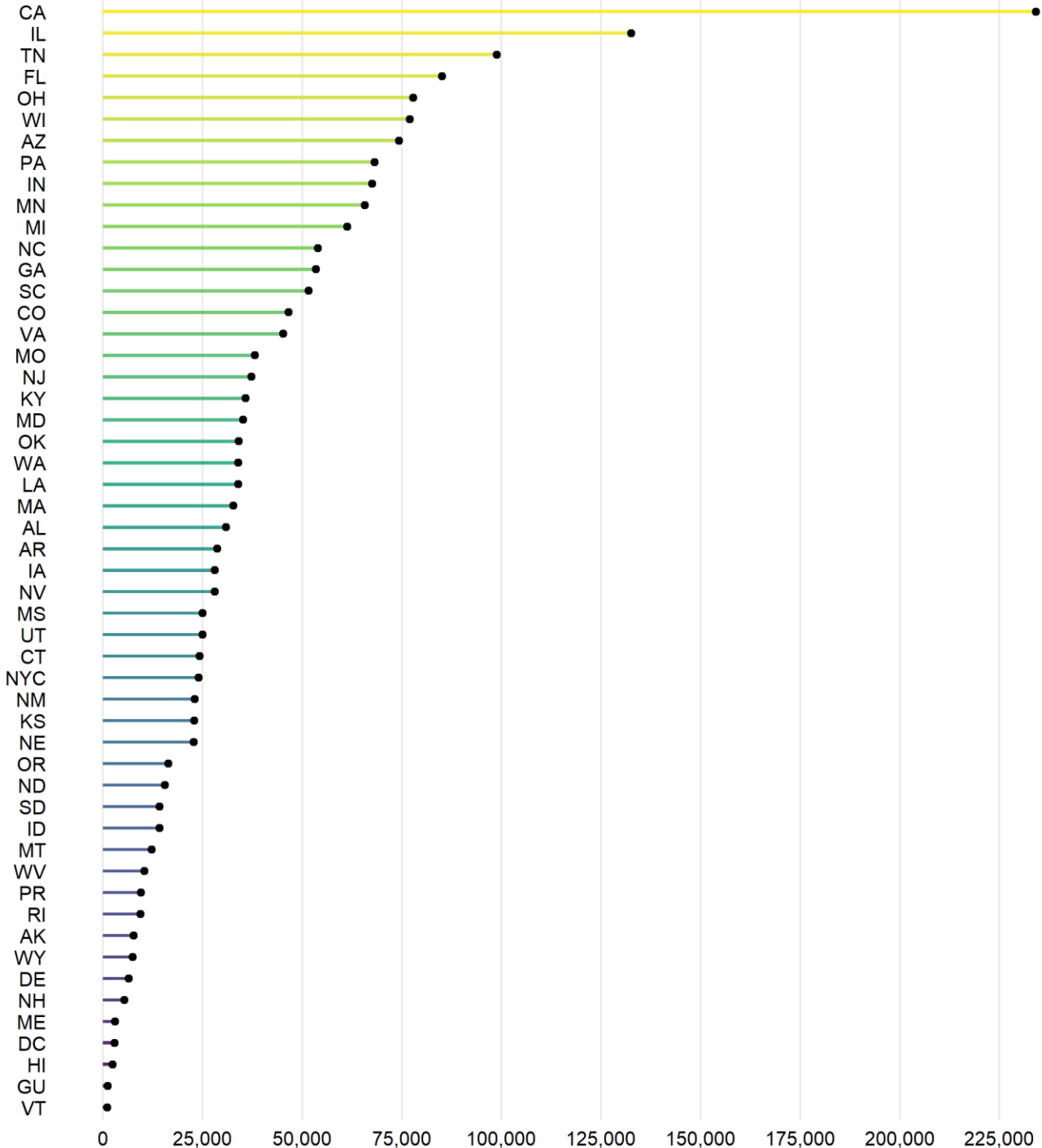
- Testing, hospitalization, and mortality data will be included in the 12/31 report (published on 1/5)

See detail in Appendix: Data from 49 states, NYC, DC, PR, and GU; Analysis by American Academy of Pediatrics and Children's Hospital Association

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

Fig 2. Cumulative Number of Child COVID-19 Cases: 12/24/20

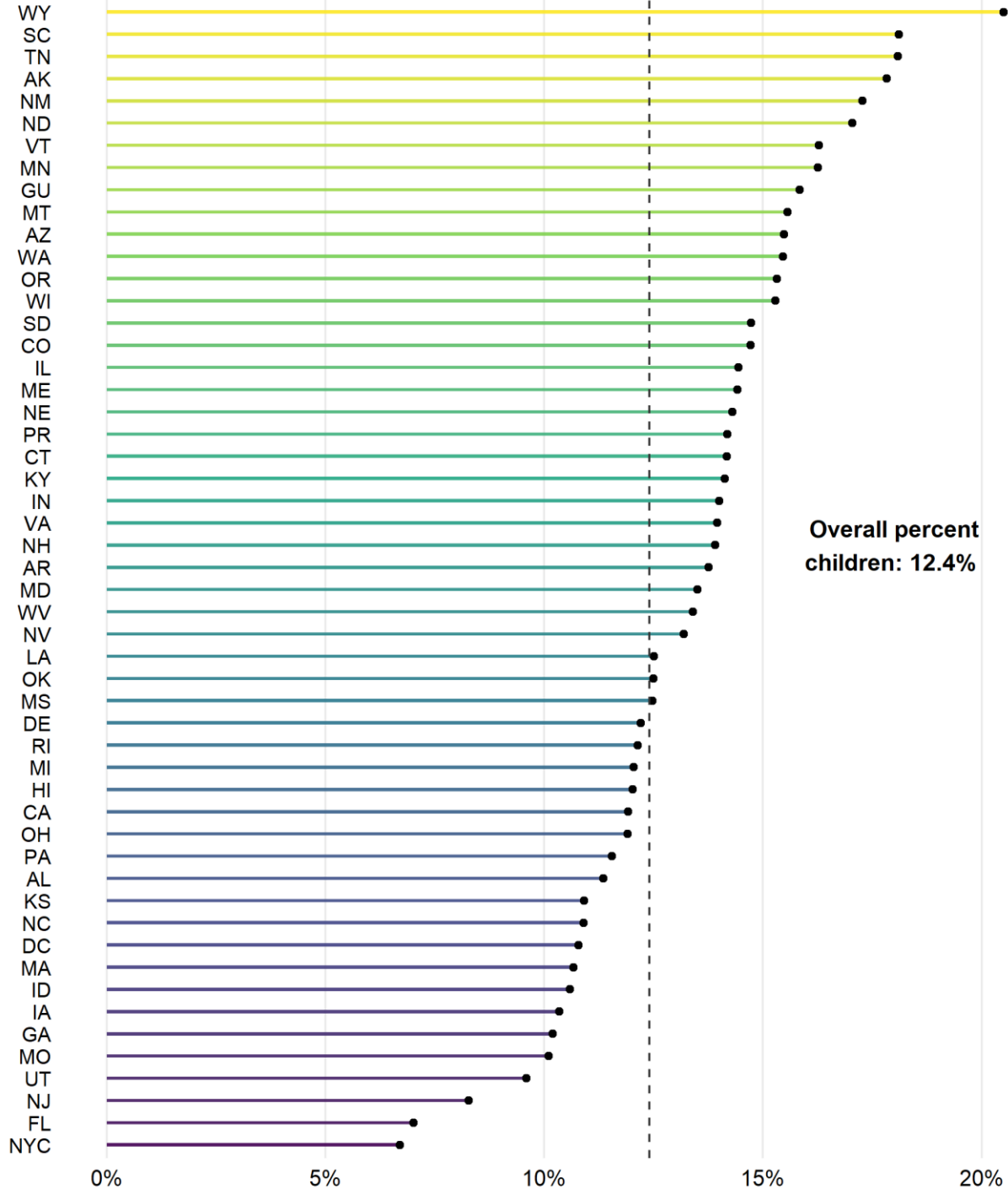
- 2,000,681 total child COVID-19 cases (cumulative)
- Eleven states reported 55,000+ child cases
- Nine states have reported fewer than 10,000 child cases



See detail in Appendix: Data from 48 states, NYC, DC, PR, and GU (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: 12/24/20

- Children represented 12.4% (2,000,681/16,125,324) of all available cases
- Thirteen states reported 15% or more of cases were children
- NYC reported that only 6.7% of cases were children



See detail in Appendix: Data from 48 states, NYC, DC, PR, and GU (TX excluded from figure)
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Fig 4. Cumulative COVID-19 Cases per 100,000 Children: 12/24/20

- Calculated using state-level population estimates from US Census Bureau (2019)*
- Overall rate: 2,658 child COVID-19 cases per 100,000 children in the population
- Thirteen states reported more than 4,000 cases per 100,000

See detail in Appendix: Data from 48 states, NYC, DC, PR, and GU (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>

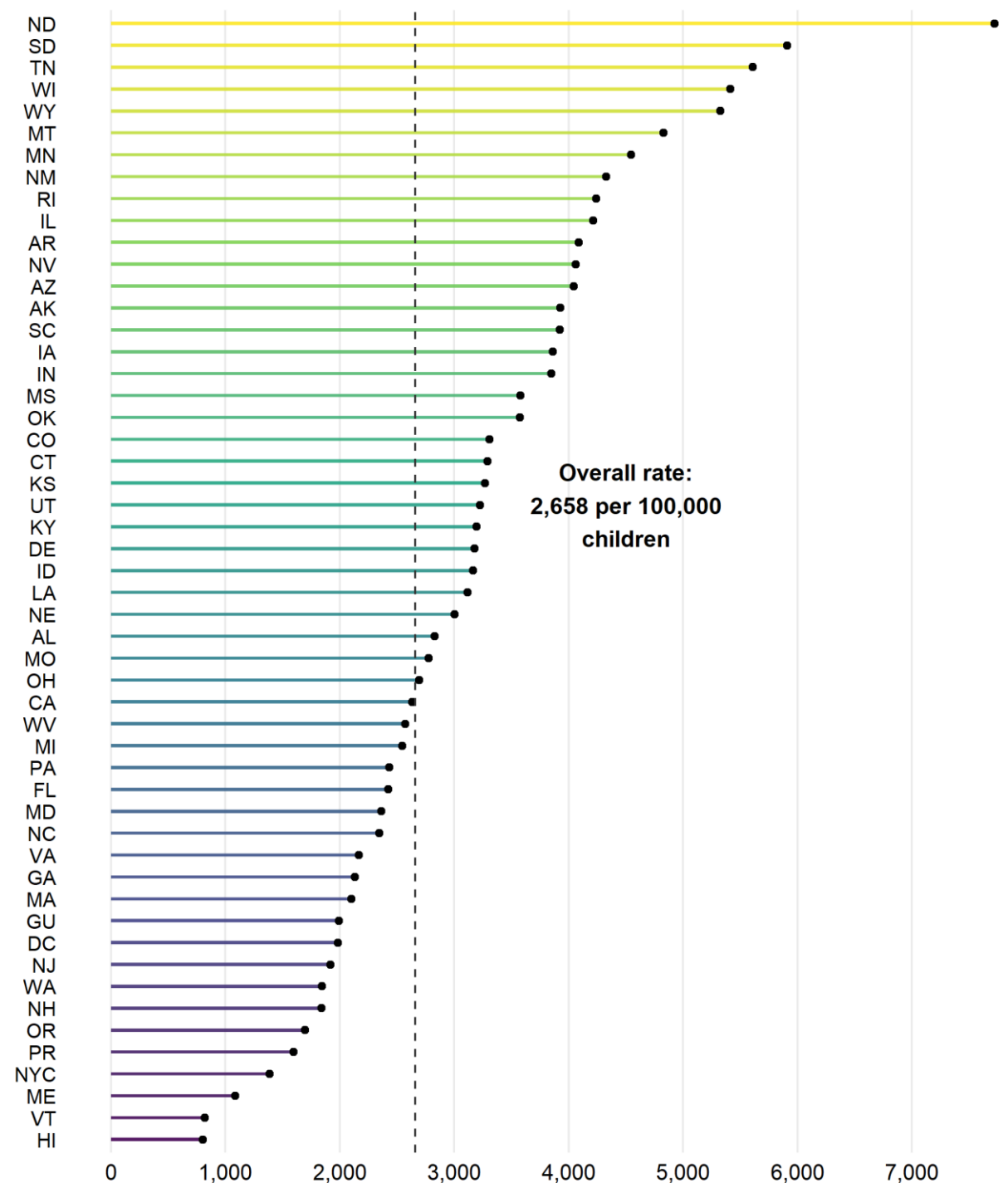
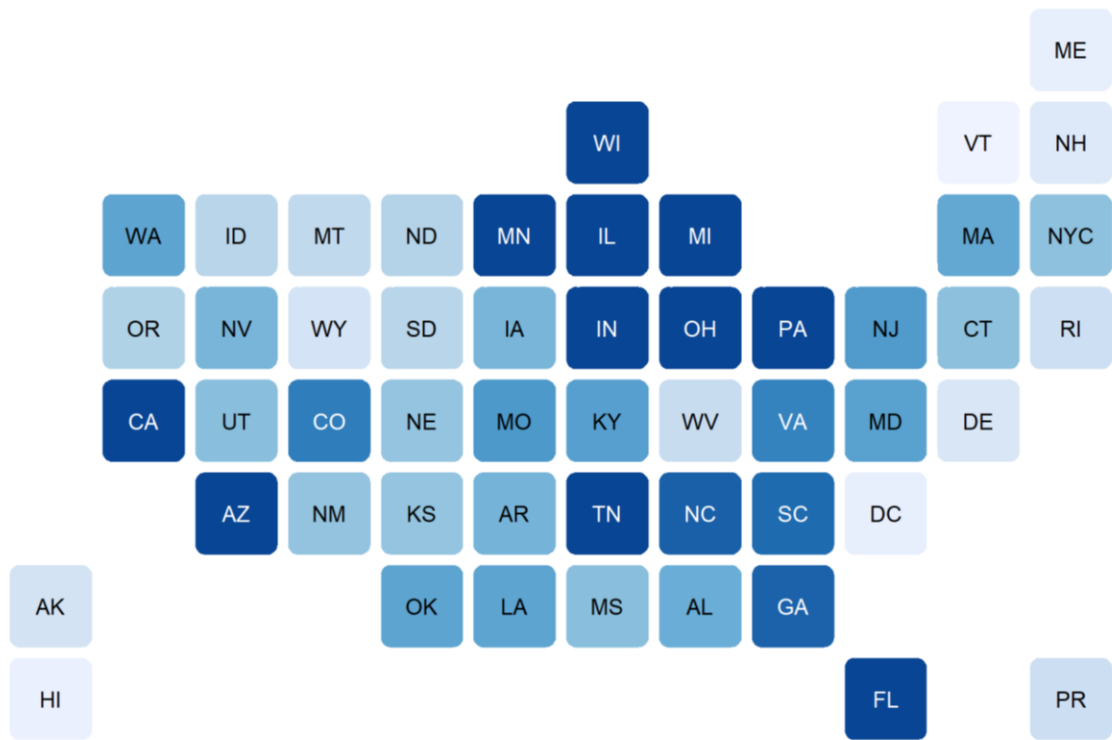


Fig 5. Cumulative Child COVID-19 Cases and Percent Increase in Child Cases

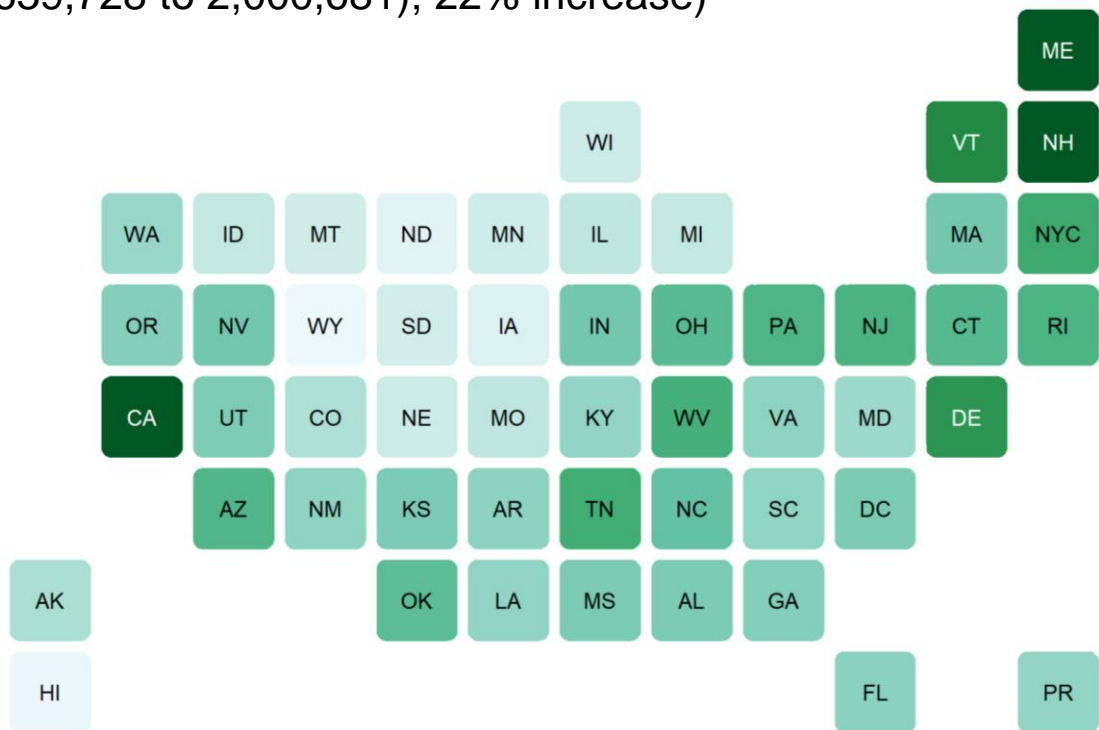
A. Cumulative Child COVID-19 Cases, 12/24/20

11 states with 55,000+ cumulative child cases

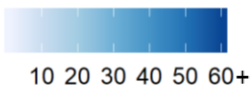


B. Percent Increase in Child Cases, 12/10/20-12/24/20

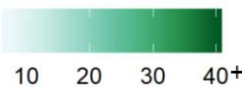
From 12/10-12/24, there were 360,953 new child cases reported (1,639,728 to 2,000,681); 22% increase)



Cumulative child COVID-19 cases (thousands)



Percent increase



See detail in Appendix: Data from 48 states, NYC, DC, and PR (TX excluded from figures);
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

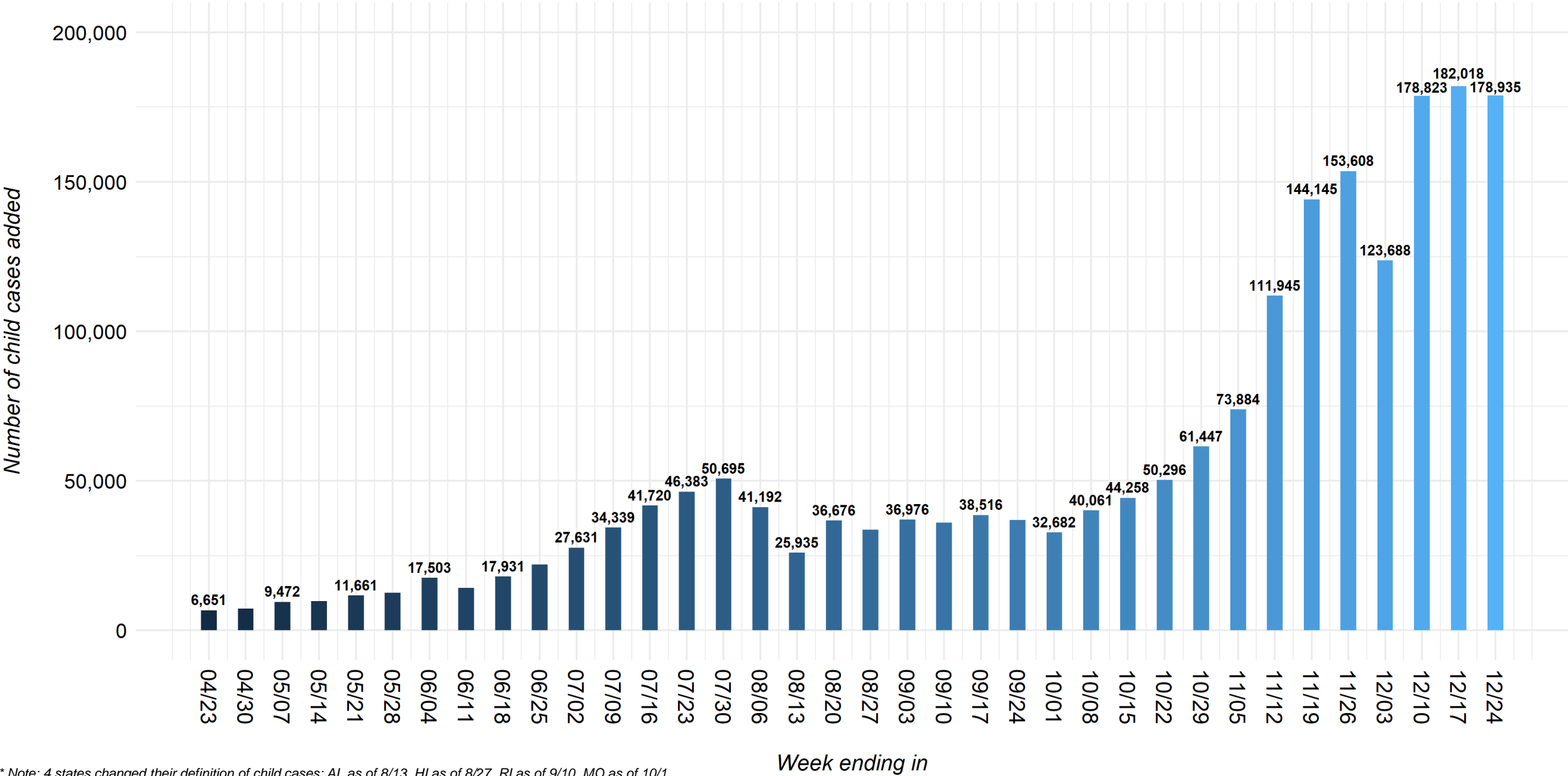


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Fig 6. United States: Number of Child COVID-19 Cases Added in Past Week*



* Note: 4 states changed their definition of child cases: AL as of 8/13, HI as of 8/27, RI as of 9/10, MO as of 10/1
See detail in Appendix: Data from 48 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 12/24/20

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
75,266,842	16,125,324	2,000,681	12.4%	2658.1

* 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 – 12/24*

Date	Number of locations reporting age	Cumulative total cases (all ages)	Cumulative child cases^	Percent children of total cases	Cases per 100,000 children
12/24/20	49 states, NYC, DC, PR, and GU	16,125,324	2,000,681	12.4%	2658.1
12/17/20	49 states, NYC, DC, PR, and GU	14,766,831	1,821,746	12.3%	2420.4
12/10/20	49 states, NYC, DC, PR, and GU	13,462,337	1,639,728	12.2%	2178.6
12/3/20	49 states, NYC, DC, PR, and GU	12,167,620	1,460,905	12.0%	1941.0
11/26/20	49 states, NYC, DC, PR, and GU	11,184,900	1,337,217	12.0%	1776.6
11/19/20	49 states, NYC, DC, PR, and GU	10,060,749	1,183,609	11.8%	1572.6
11/12/20	49 states, NYC, DC, PR, and GU	9,037,991	1,039,464	11.5%	1381.0
11/5/20	49 states, NYC, DC, PR, and GU	8,236,710	927,518	11.3%	1232.3
10/29/20	49 states, NYC, DC, PR, and GU	7,669,038	853,635	11.1%	1134.1
10/22/20	49 states, NYC, DC, PR, and GU	7,207,186	792,188	11.0%	1052.5
10/15/20	49 states, NYC, DC, PR, and GU	6,837,527	741,891	10.9%	985.7
10/8/20	49 states, NYC, DC, PR, and GU	6,505,390	697,633	10.7%	926.9
10/1/20	49 states, NYC, DC, PR, and GU [#]	6,231,564	657,572	10.6%	873.7
9/24/20	49 states, NYC, DC, PR, and GU	5,965,268	624,890	10.5%	828.5
9/17/20	49 states, NYC, DC, PR, and GU	5,721,402	587,948	10.3%	779.5
9/10/20	49 states, NYC, DC, PR, and GU	5,493,006	549,432	10.0%	728.5
9/3/20	49 states, NYC, DC, PR, and GU	5,265,157	513,415	9.8%	680.3
8/27/20	49 states, NYC, DC, PR, and GU	5,018,113	476,439	9.5%	631.3
8/20/20	49 states, NYC, DC, PR, and GU	4,766,825	442,785	9.3%	583.2

* 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

As of 10/1, MO changed definition of child case from 0-19 to 0-17 years, resulting in a downward revision of cumulative child cases

Appendix Table 2A, cont.: Summary of Child Case Data from 4/16 – 12/24*

Date	Number of locations reporting age	Cumulative total cases (all ages)	Cumulative child cases^	Percent children of total cases	Cases per 100,000 children
8/13/20	49 states, NYC, DC, PR, and GU [#]	4,486,830	406,109	9.1%	538.1
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
5/7/20	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

As of 8/13, AL changed definition of child case from 0-24 to 0-17 years, resulting in a downward revision of cumulative child cases

Appendix Table 3A: Child COVID-19 Case Data Available on 12/24/20*



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[^]	0-17	1,088,668	30,815	11.4%	271,500	2830.5
Alaska	0-19	196,852	7,730	17.8%	43,361	3926.8
Arizona	0-19	1,838,598	74,357	15.5%	480,319	4044.2
Arkansas	0-17	700,155	28,609	13.8%	207,941	4086.1
California	0-17	8,894,641	234,174	11.9%	1,964,076	2632.8
Colorado	0-19	1,407,971	46,589	14.7%	316,500	3308.9
Connecticut	0-19	735,193	24,202	14.2%	170,705	3291.9
Delaware	0-17	203,572	6,469	12.2%	53,015	3177.7
District of Columbia	0-19	149,337	2,960	10.8%	27,436	1982.1
Florida	0-14	3,512,139	85,095	7.0%	1,213,760	2422.9
Georgia	0-17	2,503,881	53,439	10.2%	524,055	2134.2
Guam	0-19	57,727	1,151	15.8%	7,266	1993.9
Hawaii	0-17	299,868	2,407	12.0%	20,014	802.7
Idaho	0-17	448,201	14,189	10.6%	133,985	3165.8
Illinois	0-19	3,145,309	132,532	14.4%	918,070	4213.6
Indiana	0-19	1,755,070	67,583	14.0%	482,734	3850.7
Iowa	0-17	726,841	28,058	10.3%	271,307	3860.3
Kansas	0-17	700,250	22,878	10.9%	209,689	3267.1
Kentucky	0-19	1,118,934	35,740	14.1%	252,998	3194.1
Louisiana	0-17	1,087,630	33,919	12.5%	271,177	3118.6
Maine	0-19	281,158	3,060	14.4%	21,226	1088.4
Maryland	0-19	1,489,721	35,201	13.5%	260,728	2362.9
Massachusetts[#]	0-19	1,558,231	32,753	10.7%	306,928	2101.9
Michigan	0-19	2,407,690	61,272	12.1%	508,449	2544.8
Minnesota	0-19	1,445,346	65,727	16.3%	404,403	4547.5
Mississippi	0-17	698,583	24,995	12.5%	200,325	3578.0
Missouri[†]	0-17	1,370,585	38,055	10.1%	376,811	2776.6

* 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 8/13, AL changed definition of child case from 0-24 to 0-17 years

As of 9/3, MA only reported age distribution of cases added in last two weeks but not for total cases to date; 12/24 totals calculated using MA Dept. of Public Health Weekly Report published 12/24 (data from 12/6-12/19) and 12/3 version of this report

† As of 10/1, MO changed definition of child case from 0-19 to 0-17 years

Appendix Table 3B: Child COVID-19 Case Data Available on 12/24/20*



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	12,280	15.6%	78,929	4826.7
Nebraska	0-19	760,272	22,832	14.3%	159,662	3003.1
Nevada	0-19	688,997	27,995	13.2%	212,211	4063.2
New Hampshire	0-19	291,038	5,357	13.9%	38,512	1840.7
New Jersey	0-17	1,938,578	37,213	8.3%	449,842	1919.6
New Mexico	0-19	531,712	23,020	17.3%	133,242	4329.4
North Carolina	0-17	2,300,715	53,931	10.9%	494,511	2344.1
North Dakota	0-19	200,777	15,503	17.0%	90,948	7721.5
NYC	0-17	1,726,900	23981	6.7%	357,749	1388.7
Ohio	0-19	2,886,873	77,804	11.9%	653,650	2695.1
Oklahoma	0-17	952,238	34,049	12.5%	272,553	3575.7
Oregon	0-19	965,480	16,391	15.3%	107,000	1697.7
Pennsylvania	0-19	2,801,187	68,185	11.5%	590,386	2434.1
Puerto Rico	0-19	594,011	9,482	14.2%	66,871	1596.3
Rhode Island	0-18	220,525	9,356	12.1%	77,097	4242.6
South Carolina	0-20	1,314,988	51,590	18.1%	285,028	3923.2
South Dakota	0-19	240,567	14,220	14.7%	96,546	5911.0
Tennessee	0-20	1,762,659	98,850	18.1%	546,497	5608.0
Texas^	0-19	8,210,585	4,640	6.9%	66,948	--
Utah	0-14	774,764	24,989	9.6%	260,589	3225.4
Vermont	0-19	134,415	1,104	16.3%	6,781	821.3
Virginia	0-19	2,087,426	45,198	14.0%	323,915	2165.3
Washington	0-19	1,840,306	33,948	15.5%	219,584	1844.7
West Virginia	0-19	402,473	10,350	13.4%	77,239	2571.6
Wisconsin	0-19	1,422,095	76,962	15.3%	503,706	5411.9
Wyoming	0-18	140,694	7,493	20.5%	36,550	5325.6

* 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 5% of total confirmed cases; Cases per 100,000 children omitted for Texas; Data for Texas in this report is limited to the case count for which age is provided

Frequently Asked Questions

Q: *Why are the AAP and CHA collecting this data?*

A: Our goal is to provide a weekly snapshot of how COVID-19 is affecting children in the United States. CDC provides a national number of cases by age on its [COVID-19 data tracker](#), but there are no geographic indicators provided and the age data are not released on a regular schedule. Our data collection method allows for tracking the number of child cases weekly, as well as providing publicly reported case numbers for children at the state level.

Q: *The age ranges for children in the report are broad – why were these age ranges chosen and are data available for more specific age ranges of children?*

A: Each state makes different decisions about how to report the age distribution of COVID-19 cases, and as a result the age range for reported cases varies by state. For the purposes of this report it is not possible to standardize more detailed age ranges for children based on what is publicly available from the states at this time. Please refer to specific state health department websites of interest to see if the state provides more granular detail of cases by age (see report Appendix for links to all state data sources).

Q: *What is the definition of a COVID-19 case?*

A: COVID-19 cases are defined as persons who have been identified as a confirmed (via a diagnostic molecular test) or probable (via a clinical diagnosis) case. COVID-19 cases are reported by the states, [following reporting standards established by the CDC](#). For more information on the definitions of confirmed and probable cases, see the following resources: [COVID Tracking Project: Definitions](#); [CDC, COVID-19 Data and Surveillance](#).

Q: *Why does the report not provide the percent of child cases that were symptomatic vs. asymptomatic or that had underlying conditions?*

A: For the report, we are limited to the data that states are making publicly available. At this time, states are not providing data related to symptoms or underlying conditions and age. CDC provides some information on COVID-19 hospitalizations by age on the [CDC COVID-NET dashboard](#).

Q: *For the child population for each state, does that match the listed age range for the state's child COVID-19 data?*

A: Yes, the report uses child population numbers that match on directly with the listed age range for children provided by each state. State population numbers were obtained from the [US Census Bureau](#).

Q: *The report provides “cumulative totals” for cases, tests, hospitalizations, and deaths for available states. Are those the total numbers since the states began reporting, or since the AAP and CHA started collecting this data?*

A: All “cumulative total” data represent cumulative counts since states began reporting COVID-19 data.

Q: *How can I learn more about COVID-19 cases in my state?*

A: Links to all state data sources are provided in the Appendix.

Q: *Are these data final?*

A: No. All data reported by state/local health departments included in this report are preliminary and subject to change and revision as health departments gather more information.

Q: *Is this the most recent report available? When will a new report be released?*

A: The most recent version of the report is available for [download on the AAP website](#). New reports are made available on a weekly basis at [aap.org/CovidStateData](#).

Additional Resources

- For more information about COVID-19 data in your area, we encourage you to reach out to your state and local health department officials
- Visit the [AAP Critical Updates](#) site for daily updates, resources, and guidance on COVID-19 and pediatrics
- For COVID-19 articles for parents in English and Spanish, visit [HealthyChildren.org](#), the parenting website of the AAP

Contact Information

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