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# Pediatric Emergency Department Visits Before and During the COVID-19 Pandemic — United States, January 2019–January 2022

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Emergency departments (EDs) in the United States remain a frontline resource for pediatric health care emergencies during the COVID-19 pandemic; however, patterns of health-seeking behavior have changed during the pandemic (1,2). CDC examined changes in U.S. ED visit trends to assess the continued impact of the pandemic on visits among children and adolescents aged 0-17 years (pediatric ED visits). Compared with 2019, pediatric ED visits declined by 51% during 2020, 22% during 2021, and 23% during January 2022. Although visits for non-COVID-19 respiratory illnesses mostly declined, the proportion of visits for some respiratory conditions increased during January 2022 compared with 2019. Weekly number and proportion of ED visits increased for certain types of injuries (e.g., drug poisonings, self-harm, and firearm injuries) and some chronic diseases, with variation by pandemic year and age group. Visits related to behavioral concerns increased across pandemic years, particularly among older children and adolescents. Health care providers and families should remain vigilant for potential indirect impacts of the COVID-19 pandemic, including health conditions resulting from delayed care, and increasing emotional distress and behavioral health concerns among children and adolescents.

CDC assessed data from the National Syndromic Surveillance Program (NSSP)\* for three surveillance periods: March 15, 2020–January 2, 2021 (2020), January 3, 2021–January 1, 2022

(2021), and January 2, 2022–January 29, 2022 (January 2022), and compared them with corresponding weeks in 2019 from health care facilities consistently reporting data during 2019– January 2022. Data were evaluated by total visits among children and adolescents aged 0-17 years, and by three age groups (0-4, 5-11, and 12-17 years), and visit diagnoses. The Healthcare Cost and Utilization Project (HCUP) Clinical Classifications Software Refined (CCSR) (version 2022; CCSR) tool was used to group International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes into clinically meaningful diagnostic categories. All ICD-10-CM codes associated with an ED visit were mapped to CCSR categories using a one-to-many approach: a visit with multiple codes could be counted across more than one category; however, if multiple codes in a single visit mapped to the same category, the visit was counted only once. CDC selected 15 categories with the largest increases and decreases in number of mean weekly visits and identified 20 categories

§ A full list of categories and corresponding codes is available at the HCUP website: https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp (Accessed January 14, 2022).



<sup>\*</sup> NSSP is a collaboration among CDC, local, and state health departments, and federal, academic, and private sector partners. https://www.cdc.gov/nssp/index.html

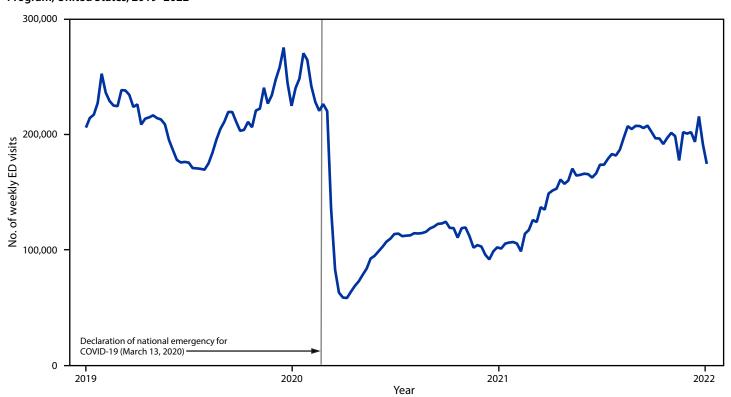
<sup>&</sup>lt;sup>†</sup>To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation ≤40 and average weekly informative discharge diagnosis ≥75% complete with consistent discharge diagnosis code formatting throughout 2019–2022. Visits from 1,674 facilities from 41 states were eligible to be included in the study. All facilities from three counties in California (El Dorado, Plumas, and Yosemite), the District of Columbia, Florida, Guam, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, and one facility from Washington were excluded because they do not meet one of the inclusion criteria.

with the largest relative change measured by visit ratios (VRs) ¶ and 95% CIs; CIs that excluded 1 were considered statistically significant. Categories with both largest change in mean weekly visits and in VRs were included only once. To retain practical relevance, categories were restricted to those with a total difference of ≥100 visits between surveillance and comparison periods. All analyses were conducted using R software (version 4.1.2; R Foundation). This activity was reviewed by CDC and was conducted consistent with applicable federal law and CDC policy.\*\*

Pediatric ED visits declined by 51% during 2020, 22% during 2021, and 23% during January 2022, compared with 2019 (Figure 1), with some differences by age (Figure 2) but negligible differences between sexes. Overall, the largest decreases in mean weekly visits and proportion of visits were for non-COVID-19 respiratory illnesses when compared with 2019; however, proportion of visits for fever increased during January 2022 (Supplementary Table 1, https://stacks.cdc. gov/view/cdc/114478). The largest increases in mean weekly visits during 2020-2022 occurred in diagnostic categories for infectious disease exposure and screening, and COVID-19. Proportion of visits also increased for infectious disease exposure and screening. Number and proportion of visits related to pedal cycle injuries and visits for some chronic conditions and their treatment (e.g., specific cancers, cancer therapy, and connective tissue disorders) also increased, with pandemic year and pediatric age variations.

Compared with 2019, the number and proportion of cannabis-involved visits among children aged 0-4 years increased

 $FIGURE\ 1. Weekly number\ of\ emergency\ department\ visits^*\ among\ children\ and\ adolescents\ aged\ 0-17\ years\ -- National\ Syndromic\ Surveillance\ Program,\ United\ States,\ 2019-2022$ 



**Abbreviations:** ED = emergency department; NSSP = National Syndromic Surveillance Program.

To assess greatest increases and decreases in mean weekly visits, no filtering on visit count or relative standard error was applied. VRs were calculated as the proportion of all ED visits in each diagnostic category during the pandemic surveillance period, divided by the proportion of all ED visits in that category during the comparison period. Ninety-five percent CIs that excluded 1 were considered statistically significant. To maintain practical relevance of results, VRs were suppressed if there were <100 visits, the difference in visit counts between periods was <100, or the relative standard error was >30%. Ratios of not applicable (N/A) do not meet at least one of those criteria.

<sup>\*\* 45</sup> C.F.R. part 46.102(l)(2), 21 C.F.R. part 56; 42 U.S.C. Sect. 241(d); 5 U.S.C. Sect. 552a; 44 U.S.C. Sect. 3501 et seq.

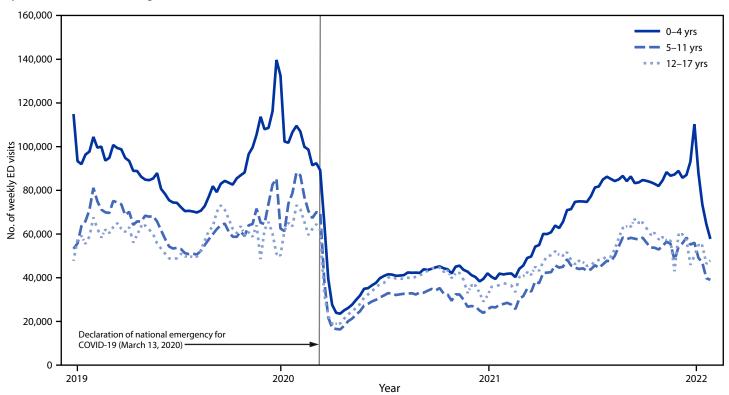
<sup>\*</sup> NSSP is a collaboration among CDC, local, and state health departments, and federal, academic, and private sector partners. To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation ≤40 and average weekly informative discharge diagnosis ≥75% complete with consistent discharge diagnosis code formatting throughout 2019–2022. Visits from 1,674 facilities from 41 states were eligible to be included in the study. All facilities from three counties in California (El Dorado, Plumas, and Yosemite), the District of Columbia, Florida, Guam, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. https://www.cdc.gov/nssp/index.html

during 2020 and 2021, with an increase of eight visits per week in 2020 (VR = 3.94) and an increase of 15 visits per week during 2021 (VR = 3.14). The number and proportion of firearm injury visits among children in this age group also increased during 2020 and 2021, with an increase of three visits per week during 2020 (VR = 4.20) and two visits per week during 2021 (VR = 2.33). Similarly, the number and proportion of visits for psychosocial factors among children aged 0-4 years increased during 2021 and January 2022, with an increase of 38 visits per week during 2021 (VR = 1.53) and 55 visits per week during January 2022 (VR = 1.91) compared with 2019. The number and proportion of visits for neurodevelopmental disorders among children in this age group also increased during 2021 and January 2022, with an increase of 18 visits per week during 2021 (VR = 1.35) and 45 visits per week during January 2022 (VR = 1.71) (Supplementary Table 2, https://stacks.cdc.gov/ view/cdc/114478). During January 2022, although visits for epilepsy decreased by 35 visits per week and visits for respiratory symptoms (e.g., cough) decreased by 2,063 visits per week in this

age group, the proportion of visits increased both for epilepsy (VR = 1.37) and respiratory symptoms (VR = 1.12).

Among children aged 5–11 years, the number and proportion of cannabis-involved visits increased during 2020 and 2021 compared with 2019, with an increase of four visits per week during 2020 (VR = 3.72) and an increase of nine visits per week during 2021 (VR = 3.54) (Supplementary Table 3, https://stacks.cdc.gov/view/cdc/114478). The number and proportion of visits for psychosocial concerns also increased during 2021 and January 2022 compared with 2019, with an increase of 20 visits per week during 2021 (VR = 1.74) and 35 visits per week during January 2022 (VR = 2.18). During 2021, the number and proportion of visits for firearm injuries, self-harm, and drug-poisoning were higher compared with 2019, with an increase of two visits per week for firearm injuries (VR = 2.01), six visits per week for self-harm (VR = 1.69), and seven visits per week for drug poisoning (VR = 1.55). During January 2022, although the number of visits for viral infection, fever, and epilepsy decreased compared with 2019, the

FIGURE 2. Weekly number of emergency department visits\* among children and adolescents aged 0–17 years, by age group — National Syndromic Surveillance Program, United States, 2019–2022



 $\textbf{Abbreviations:} \ \mathsf{ED} = \mathsf{emergency} \ \mathsf{department}; \ \mathsf{NSSP} = \mathsf{National} \ \mathsf{Syndromic} \ \mathsf{Surveillance} \ \mathsf{Program}.$ 

<sup>\*</sup> NSSP is a collaboration among CDC, local, and state health departments, and federal, academic, and private sector partners. To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation ≤40 and average weekly informative discharge diagnosis ≥75% complete with consistent discharge diagnosis code formatting throughout 2019–2022. Visits from 1,674 facilities from 41 states were eligible to be included in the study. All facilities from three counties in California (El Dorado, Plumas, and Yosemite), the District of Columbia, Florida, Guam, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. https://www.cdc.gov/nssp/index.html

proportion of visits increased, with a decrease of 286 visits per week for viral infection (VR = 1.26), a decrease of 814 visits per week for fever (VR = 1.11), and a decrease of 38 visits per week for epilepsy (VR = 1.29).

Among adolescents aged 12–17 years, during 2020, 2021, and January 2022, the number and proportion of visits for injuries from physical activities (e.g., walking, swimming, and running) decreased compared with 2019, with decreases of 1,669 visits per week during 2020 (VR = 0.80), 966 visits per week during 2021 (VR = 0.80), and 757 visits per week during January 2022 (VR = 0.72). Conversely, the number and proportion of visits for self-harm increased in all 3 years, with increases of 30 visits per week during 2020 (VR = 1.77), 210 visits per week during 2021 (VR = 1.59), and 207 visits per week during January 2022 (VR = 1.48). Similarly, the number and proportion of visits for drug poisonings and eating disorders increased during all 3 years compared with 2019, with increases of 12 visits per week for drug poisonings during 2020 (VR = 1.72), 171 visits per week during 2021 (VR = 1.53), and 178 visits per week during January 2022 (VR = 1.43); and increases of nine visits per week for eating disorders during 2020 (VR = 2.00), 41 visits per week during 2021 (VR = 2.14), and 38 visits per week during January 2022 (VR = 1.92) (Supplementary Table 4, https://stacks.cdc.gov/ view/cdc/114478). The number and proportion of visits for firearm injuries increased by 22 visits per week (VR = 2.43) during 2020 and by 20 visits per week during January 2022 (VR = 1.69) compared with 2019. The number and proportion of visits for psychosocial concerns and for symptoms of mental health conditions and substance use increased during 2021 and January 2022, with increases of 78 visits per week during 2021 (VR = 1.66) and 62 visits per week during January 2022 (VR = 1.48) for psychosocial concerns and increases of 113 visits per week during 2021 (VR = 1.35) and 197 visits per week during January 2022 (VR = 1.43) for symptoms of mental conditions and substance use. In January 2022, the number and proportion of visits for respiratory symptoms (e.g., cough) increased by 905 visits per week (VR = 1.55).

#### Discussion

Pediatric ED visits sharply declined in the United States during 2020 compared with 2019 (1), and although the weekly numbers of visits have varied, ED visits remained lower during 2021 and January 2022 compared with those before the pandemic (2). These declines might be associated with parents' and caregivers' risk perception and avoidance of EDs or health care, among other reasons. Despite overall declines, weekly ED visits did increase for children aged 0-4 years at the end of 2021, aligning with the increased circulation of the B.1.1.529 (Omicron) variant of SARS-CoV-2, the virus

that causes COVID-19, in the United States. These increases were not observed in children aged 5-11 and adolescents aged 12–17 years; both age groups were eligible for vaccination at the end of 2021. COVID-19-associated visits, and those for exposure and screening for infectious disease, were the top two visit diagnoses for children of all age groups during January 2022. Being up to date with vaccinations is critical for adults and eligible children and adolescents<sup>††</sup> to prevent infection, severe illness, or death from COVID-19 (3,4), and might reduce strain on health care resources. Supplementary testing §§ strategies for COVID-19 can further alleviate the impact of the pandemic on EDs (3,5).

The proportion of visits for non-COVID-19 respiratory illnesses mostly declined across all periods examined, suggesting that COVID-19 prevention measures might have reduced transmission of other respiratory viruses as well (6). However, during January 2022, the proportion of visits for fever, viral infection, and respiratory symptoms such as cough increased, with variations by age group. Clinicians should remain vigilant for potentially changing clinical COVID-19 presentations associated with the Omicron variant (7), as well as any newly emergent variants of concern.

Elevated proportions of visits for some other diseases, including some chronic conditions and treatments (e.g., cancer therapies), might indicate delay of care and routine well child visits; reduced screening; or postponed procedures to reallocate medical resources during the pandemic (1,2). Health care systems should encourage caregivers of children and adolescents to seek necessary and scheduled care.

Higher numbers and proportions of cannabis-involved visits among children aged 0-11 years during 2020 and 2021 might be associated with increases in unintentional ingestion. Although there was some variation by pandemic year, increases in visits with certain injuries across all age groups (e.g., firearm injuries), as well as among children and adolescents aged 5–17 years (e.g., drug poisoning and self-harm), are consistent with reports of increased overdose and violence outcomes during the pandemic (8). Factors affecting caregivers, including unavailable or unpredictable child care, illness, financial hardship, and mental health concerns, might increase children and

https://www.cdc.gov/coronavirus/2019-ncov/testing/self-testing.html

(Accessed January 14, 2022).

<sup>††</sup> https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/ children-teens.html (Accessed January 15, 2022). Persons aged 12-17 years became eligible for vaccination on May 10, 2021. https://www.fda.gov/newsevents/press-announcements/coronavirus-covid-19-update-fda-authorizespfizer-biontech-covid-19-vaccine-emergency-use. Children aged 5-11 years became eligible for vaccination on October 29, 2021. Age 5 years is the current youngest age eligible for COVID-19 vaccination. https://www.fda. gov/news-events/press-announcements/fda-authorizes-pfizer-biontech-covid-19-vaccine-emergency-use-children-5-through-11-years-age

# **Summary**

What is already known about this topic?

Health seeking behavior has changed during the COVID-19 pandemic.

#### What is added by this report?

Compared with 2019, overall pediatric emergency department visits decreased by 51%, 22%, and 23% during 2020, 2021, and January 2022, respectively. COVID-19 visits predominated across all pediatric ages; visits for other respiratory illnesses mostly declined. Number and proportion of visits increased for certain injuries (e.g., firearm injuries, self-harm, and drug poisonings), some chronic diseases, and behavioral health concerns, with variations by age group.

## What are the implications for public health practice?

Health care providers and families should remain vigilant for potential indirect impacts of the COVID-19 pandemic, including health conditions resulting from delayed care, and increasing emotional distress and behavioral health concerns among children and adolescents.

adolescents' vulnerabilities. Children and adolescents' loss of parents or other caregivers (9), increases in other adversities, and disruptions in daily routine because of the COVID-19 pandemic ff might also increase children and adolescents' behavioral health concerns and unhealthy coping behaviors. Comprehensive prevention strategies, \*\*\*, †††, \$\\$\\$ including strengthening supports to reduce family stress; enhancing access to services and resources; safe storage of firearms and other lethal means; and limiting accessibility to drugs such as cannabis, to reduce use among children and adolescents, can help address these factors. Further, increases in visits for other behavioral concerns and eating disorders align with previous findings, suggesting that the COVID-19 pandemic has exacerbated already high rates of mental health concerns among children and adolescents \$\frac{\psi}{2},\*\*\*\* (10). In addition to those who routinely treat children and adolescents' mental and behavioral health, educators and others who work with children and adolescents can also help identify symptoms of

55 https://www.aap.org/en/patient-care/family-snapshot-during-the-covid-19-pandemic/ (Accessed February 15, 2022). distress and unhealthy coping behaviors that might warrant further intervention.

The findings in this report are subject to at least five limitations. First, NSSP ED visit data are a convenience sample and should not be considered nationally representative. Second, fluctuations in underlying data quality, coding practices, and variations in lengths of surveillance periods, particularly during January 2022, might not be reflective of trends from a longer period, potentially over- or underrepresenting visit trends. To help account for this, visit data were analyzed only from facilities with consistent reporting during the study period. Third, many factors, including patterns of care-seeking, changed during the COVID-19 pandemic, and this study was not able to draw conclusions about the underlying prevalence of these conditions outside EDs. Fourth, this report assessed trends in ED visits with one or many diagnosis codes; multiple visits by the same patient are possible, and each would be counted separately. Finally, this analysis could not ascertain which diagnosis was the primary reason for the visit; any visit with a relevant diagnosis was included in that clinical category.

Health care systems should be aware of indirect effects of delayed medical care and maintain vigilance for signs of exacerbated emotional distress and behavioral health concerns, especially among older children and adolescents. Prevention programs that improve children and adolescents' physical and mental health are critical during and after emergencies. Reducing COVID-19 infection through vaccination and other nonpharmaceutical prevention strategies can further protect pediatric health.

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<sup>\*\*\*</sup> https://www.cdc.gov/violenceprevention/pdf/preventingACES.pdf

<sup>†††</sup> https://www.cdc.gov/suicide/pdf/suicideTechnicalPackage.pdf. (Accessed January 18, 2022).

<sup>\$\$\\$</sup> https://www.cdc.gov/violenceprevention/pdf/yv-technicalpackage.pdf (Accessed January 18, 2022).

<sup>555</sup> https://www.aap.org/en/advocacy/child-and-adolescent-healthy-mental-development/aap-aacap-cha-declaration-of-a-national-emergency-in-child-and-adolescent-mental-health/ (Accessed January 14, 2022).

<sup>\*\*\*\*</sup> https://www.hhs.gov/about/news/2021/12/07/us-surgeon-general-issuesadvisory-on-youth-mental-health-crisis-further-exposed-by-covid-19pandemic.html (Accessed January 14, 2022).

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