Seasonal Trends in Emergency Department Visits for Mental and Behavioral Health Conditions Among Children and Adolescents Aged 5–17 Years — United States, January 2018–June 2023

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Abstract

Mental and behavioral health conditions among schoolaged children, including substance use disorders and overall emotional well-being, are a public health concern in the United States. Timely data on seasonal patterns in child and adolescent conditions can guide optimal timing of prevention and intervention strategies. CDC examined emergency department (ED) visit data from the National Syndromic Surveillance Program for 25 distinct conditions during January 2018–June 2023 among U.S. children and adolescents aged 5-17 years, stratified by age group. Each year, during 2018–2023, among persons aged 10–14 and 15–17 years, the number and proportion of weekly ED visits for eight conditions increased in the fall school semester and remained elevated throughout the spring semester; ED visits were up to twice as high during school semesters compared with the summer period. Among children aged 5–9 years, the number and proportion of visits increased for five mental and behavioral health conditions. Seasonal increases in ED visits for some conditions among school-aged children warrant enhanced awareness about mental distress symptoms and the challenges and stressors in the school environment. Systemic changes that prioritize protective factors (e.g., physical activity; nutrition; sleep; social, community, or faith-based support; and inclusive school and community environments) and incorporate preparedness for increases in conditions during back-to-school planning might improve child and adolescent mental health.

Introduction

Mental and behavioral health conditions among school-aged children, including substance use disorders and overall emotional well-being, are a public health concern in the United States (1-3). School, particularly the beginning of a new school year, can be both exciting and increase worries and stress for children and adolescents.* School staff members might also recognize exacerbations of these conditions. Timely data on seasonal patterns in child and adolescent conditions can help guide the optimal timing of prevention and intervention strategies to promote child and adolescent long-term well-being.

Methods

CDC examined emergency department (ED) visit data from the National Syndromic Surveillance Program (NSSP) during January 2018–June 2023 to calculate changes in the number and proportion of ED visits for mental and behavioral health conditions among children and adolescents aged 5-17 years; visits from 1,919 facilities in 46 states were included.[†] Predetermined International Classification of Disease, Tenth Revision, Clinical Modification diagnostic categories from the Healthcare Cost and Utilization Project (HCUP) Clinical Classifications Software Refined[§] (version 2022; HCUP) tool were used; categories included were initially limited to those corresponding to 27 distinct conditions using a one-to-many approach (Supplementary Box, https://stacks.cdc.gov/view/ cdc/131758). Among these categories, eight (30%) had enough data for reliable visit estimates (relative SE <30%) for all age groups and were retained in the final analysis. Results were reported on categories with consistent and significant increases during the study years.

Surveillance periods were designated as the fall school semester (calendar weeks 37–53; September–December) and spring school semester (calendar weeks 1–23; January–June). Each was compared with the immediately preceding summer period (calendar weeks 24–36; June–September) (Supplementary Table, https://stacks.cdc.gov/view/cdc/132871) (*I*). ED visit ratios and 95% CIs were used to measure relative change in the

^{*} https://www.cdc.gov/childrensmentalhealth/features/COVID-19-helpingchildren-transition-back-to-school.html; https://www.cdc.gov/healthyyouth/ protective/school_connectedness.htm

[†] To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation for ED visits ≤40 and average weekly informative discharge diagnosis ≥75% complete with discharge diagnosis code formatting during January 2018–June 2023. https://www.cdc.gov/nssp/ index.html

[§] ED visits 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; a full list of categories and corresponding codes is available at the HCUP website. https://www.hcup-us.ahrq.gov/toolssoftware/ ccsr/dxccsr.jsp

proportion of visits. Visit ratio was defined as the proportion of all ED visits for a selected mental and behavioral health condition during the school semester (fall or spring) divided by the proportion of ED visits for that condition during the immediately preceding summer period. Ratios >1 indicated a higher proportion of ED visits with the condition during the surveillance period than during the comparison period; ratios <1 indicated a lower proportion of ED visits with the condition during the comparison period than during the surveillance period. CIs that excluded 1 were considered statistically significant. Absolute differences and percent changes were used to measure the difference in mean weekly ED visit numbers during the school semester (fall or spring) compared with the preceding summer period. Results were stratified by age group: 5-9, 10-14, and 15-17 years. This activity was reviewed by CDC, deemed not research, and was conducted consistent with applicable federal law and CDC policy.⁹

Results

Each year, during 2018–2023, among persons aged 10–14 and 15-17 years, the number and proportion of weekly ED visits displayed seasonal patterns for depressive disorders, suicidal ideation or self-harm, trauma- and stressor-related disorders, cannabis-related disorders, lifestyle or life management factors, mood disorders, poisoning by drugs, and symptoms of mental and substance use conditions. Compared with the summer period, higher mean weekly visit numbers and relative proportion of visits were observed during the fall school semester (i.e., depressive disorders, suicidal ideation or self-harm, and traumaand stressor-related disorders) and spring school semester (i.e., depressive disorders, suicidal ideation or self-harm, trauma- and stressor-related disorders, lifestyle or life management factors, mood disorders, poisoning by drugs, and symptoms of mental and substance use conditions). ED visits briefly decreased each year corresponding to the typical winter holiday break period during the last week of November and December, followed by a return to previous levels (Figure) (Supplementary Figure, https://stacks.cdc.gov/view/cdc/132872).

Among persons aged 10–14 years and 15–17 years, the proportion of ED visits for depressive disorders increased in both the fall and spring school semesters each year during 2018–2023 compared with the preceding summer period (range of visit ratios across fall and spring school semesters: 1.19–1.95 among persons aged 10–14 years and 1.16–1.60 among those aged 15–17 years), suicidal ideation or self-harm (1.13–2.00 and 1.15–1.74, respectively) and trauma- and stressor-related disorders (1.07–1.62 and 1.05–1.43, respectively). During the

spring school semester, the proportion of visits increased for four additional conditions: lifestyle or life management factors (range of visit ratios for spring school semesters: 1.32-1.88 among persons aged 10-14 years and 1.07-1.64 among those aged 15-17 years, respectively), mood disorders (1.12-1.73 and 1.13-1.56, respectively), poisoning by drugs (1.05-2.03 and 1.10-1.84, respectively), and symptoms of mental and substance use conditions (1.19-1.47 and 1.08-1.55, respectively) when compared with the preceding summer period (Table 1). For cannabis-related disorders, the proportion of ED visits increased among both children and adolescents aged 10-14 years and 15-17 years during fall 2018 (visit ratio: 1.25 among persons aged 10-14 years and 1.13 among those aged 15-17 years, respectively), spring 2019 (1.36 and 1.22, respectively), spring 2020 (1.61 and 1.66, respectively), fall 2021 (1.39 and 1.17, respectively), spring 2022 (1.91 and 1.48, respectively), and spring 2023 (1.62 and 1.24, respectively). The proportion of weekly ED visits increased among children aged 5-9 years for depressive disorders, suicidal ideation or selfharm, trauma- and stressor-related disorders, mood disorders, and symptoms of mental and substance use conditions.

The number of weekly visits also increased for all eight mental and behavioral health conditions in the fall and spring semesters when compared with the preceding summer period among children and adolescents aged 10-14 and 15-17 years, except when comparing the spring 2020 school semester with the preceding summer 2019 period; cannabis-related disorders were the only exception in which negative percent change (-4.6%) in weekly visits was also observed among adolescents aged 15-17 years during fall 2020 (Table 2). Weekly ED visits among children aged 5-9 years were higher during school semesters when compared with corresponding summer periods for depressive disorders, suicidal ideation or self-harm, trauma- and stressor-related disorders, mood disorders, and symptoms of mental and substance use conditions, except during the spring 2020 school semester; the volume of visits was low for conditions examined when compared with children and adolescents aged 5-17 years.

Discussion

Each year, during 2018–2023, the number and proportion of weekly ED visits for eight mental and behavioral health conditions displayed seasonal increases during the fall and spring school semesters compared with the summer period; timing of increase varied by specific conditions. Trends suggest that students might need additional mental health support during the back-to-school period in the fall and throughout the academic year.

Visit patterns during the 2020 spring school semester showed a relative increase in incidence (visit ratio >1) and lower mean

⁵45 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.

FIGURE. Weekly trends in the number of emergency department visits* for depressive disorders (A), suicidal ideation or self-harm (B), and trauma- and stressor-related disorders (C) among children and adolescents aged 5–17 years, by age group — National Syndromic Surveillance Program,[†] United States, January 2018–June 2023[§]



Abbreviation: ED = emergency department.

* To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation for ED visits ≤40 and average weekly informative discharge diagnosis ≥75% complete with consistent discharge diagnosis code formatting during January 2018–June 2023.

⁺ National Syndromic Surveillance Program is a collaboration among CDC; local and state health departments; and federal, academic, and private sector partners. https://www.cdc.gov/nssp/index.html

§ Summer period (calendar weeks 24–36; June–September); fall school semester (calendar weeks 37–53; September–December); spring school semester (calendar weeks 1–23; January–June).

TABLE 1. Emergency department visit ratios*,† for mental and behavioral health conditions among children and adolescents aged 5–17 yea
by age group — National Syndromic Surveillance Program, [§] United States, January 2018–June 2023

Mental and behavioral			Visit ratio (95% Cl)				
health condition/ Age group, yrs	Period	2018-2019	2019–2020	2020-2021	2021-2022	2022-2023	
Depressive disorders							
5–9	Fall	1.66 (1.47-1.87)	1.45 (1.29–1.63)	1.27 (1.10–1.47)	1.44 (1.25–1.65)	0.99 (0.86-1.14)	
	Spring	1.59 (1.40–1.79)	1.57 (1.37–1.81)	1.23 (1.07-1.41)	1.38 (1.19–1.58)	1.31 (1.13–1.51)	
10–14	Fall	1.63 (1.58–1.67)	1.46 (1.42–1.50)	1.47 (1.43–1.51)	1.42 (1.39–1.46)	1.19 (1.16–1.22)	
	Spring	1.57 (1.53–1.62)	1.95 (1.89–2.01)	1.46 (1.42–1.50)	1.32 (1.29–1.36)	1.38 (1.34–1.42)	
15–17	Fall	1.40 (1.37–1.43)	1.31 (1.28–1.34)	1.25 (1.22-1.27)	1.33 (1.31-1.36)	1.16 (1.14–1.19)	
	Spring	1.35 (1.32–1.38)	1.60 (1.56–1.63)	1.20 (1.17–1.23)	1.29 (1.27–1.32)	1.21 (1.18–1.24)	
Suicidal ideation or self-ba	-p				,	,	
5_9	Fall	1 62 (1 48_1 77)	1 48 (1 36-1 61)	1.27(1.15-1.40)	1 64 (1 49-1 80)	1 07 (0 98_1 17)	
2-9	Spring	1.62 (1.46-1.77)	1.46 (1.00-1.01)	1.27(1.13-1.40) 1.20(1.00, 1.22)	1 71 (1 56 1 99)	1.07 (0.98-1.17)	
10 14	5pring	1.04(1.30-1.79) 1.52(1.49, 1.56)	1.30(1.41 - 1.73) 1.41(1.29, 1.44)	1.52 (1.09-1.32)	1.71 (1.30-1.88)	1.39(1.27 - 1.32) 1 12(1 11 1 15)	
10-14	Coring	1.52(1.46 - 1.50)	1.41(1.36-1.44)	1.52 (1.48-1.55)	1.43(1.42-1.40) 1 29 (1 25 1 41)	1.13(1.11-1.13) 1.29(1.25, 1.41)	
15 17	5pring	1.30(1.40-1.34) 1.27(1.24, 1.40)	2.00(1.94-2.03)	1.22 (1.20, 1.25)	1.36 (1.33-1.41)	1.38(1.33-1.41) 1 15 (1 12 1 17)	
15-17	Fall	1.37(1.34-1.40)	1.28 (1.20-1.31)	1.32 (1.30-1.33)	1.30(1.34-1.39)	1.13(1.12-1.17) 1.25(1.22, 1.28)	
	Spring	1.31 (1.28–1.34)	1.74 (1.70–1.78)	1.30 (1.28–1.33)	1.34 (1.31–1.37)	1.25 (1.22–1.28)	
Trauma- and stressor-relat	ed disorders						
5–9	Fall	1.31 (1.21–1.42)	1.29 (1.19–1.39)	1.04 (0.95–1.13)	1.35 (1.23–1.47)	0.87 (0.80–0.95)	
	Spring	1.30 (1.20–1.40)	1.64 (1.50–1.79)	0.82 (0.75–0.89)	1.43 (1.31–1.57)	1.00 (0.91–1.09)	
10–14	Fall	1.36 (1.31–1.42)	1.25 (1.20–1.30)	1.24 (1.18–1.29)	1.36 (1.31–1.42)	1.07 (1.03–1.11)	
	Spring	1.35 (1.29–1.41)	1.62 (1.55–1.70)	1.18 (1.13–1.23)	1.38 (1.33–1.44)	1.27 (1.22–1.33)	
15–17	Fall	1.20 (1.15–1.25)	1.13 (1.09–1.18)	1.08 (1.04–1.13)	1.21 (1.16–1.26)	1.05 (1.01–1.09)	
	Spring	1.24 (1.19–1.30)	1.43 (1.37–1.50)	1.06 (1.01–1.10)	1.23 (1.18–1.28)	1.15 (1.11–1.20)	
Cannabis-related disorder	s						
5–9	- Fall	1.23 (0.73-2.07)	0.95 (0.64-1.39)	0.98 (0.76-1.27)	0.47 (0.37-0.60)	0.63 (0.52-0.77)	
	Spring	1.28 (0.77–2.15)	2.94 (2.02–4.27)	1.27 (1.00–1.61)	0.85 (0.69–1.05)	1.04 (0.86–1.26)	
10–14	Fall	1.25 (1.14–1.38)	1.07 (0.98–1.16)	0.99 (0.91–1.07)	1.39 (1.28–1.50)	1.13 (1.06–1.21)	
	Spring	1.36 (1.24–1.49)	1 61 (1 47–1 76)	1.08(0.99-1.17)	1.91 (1.77–2.05)	1.62(1.52-1.73)	
15–17	Fall	1 13 (1 09–1 18)	1.06(1.02-1.10)	0.98(0.94-1.02)	1 17 (1 12–1 21)	0.99(0.96-1.03)	
	Spring	1 22 (1 17–1 27)	1 66 (1 59–1 73)	0.98(0.94 - 1.02)	1.48(1.42-1.54)	1 24 (1 19–1 28)	
1 : fa ata da an lifa mana a ana		1.22 (1.17) 1.27)	1.00 (1.55 1.75)	0.50 (0.51 1.02)	1.10 (1.12 1.51)	1.2 ((1.1.) 1.20)	
Lifestyle or life manageme	ent factors	1 20 (1 00 1 ())	1 17 (0 01 1 50)	0.07 (0.00 1.10)	0.04 (0.72, 1.22)	0.02 (0.71, 1.21)	
5-9	Fall	1.29 (1.00–1.66)	1.17 (0.91–1.50)	0.87 (0.66–1.16)	0.94 (0.72–1.23)	0.92 (0.71-1.21)	
	Spring	1.04 (0.80–1.36)	1.32 (0.98–1.78)	0.86 (0.65-1.13)	1.08 (0.83–1.41)	1.56 (1.21-2.02)	
10-14	Fall	1.44 (1.33–1.56)	1.25 (1.17-1.35)	1.28 (1.19–1.37)	1.30 (1.22–1.39)	0.98 (0.92-1.05)	
	Spring	1.39 (1.28–1.50)	1.88 (1.74–2.04)	1.39 (1.30–1.49)	1.32 (1.24–1.41)	1.41 (1.32–1.51)	
15-17	Fall	1.08 (1.02–1.15)	1.05 (1.00–1.11)	1.08 (1.03–1.14)	1.15 (1.09–1.21)	0.93 (0.88–0.98)	
	Spring	1.07 (1.01–1.14)	1.64 (1.54–1.74)	1.11 (1.05–1.18)	1.19 (1.12–1.25)	1.16 (1.10–1.23)	
Mood disorders							
5–9	Fall	1.62 (1.45–1.81)	1.31 (1.18–1.45)	1.24 (1.09–1.40)	1.32 (1.17–1.48)	0.81 (0.72–0.91)	
	Spring	1.47 (1.31–1.65)	1.41 (1.24–1.60)	1.12 (0.99–1.26)	1.27 (1.13–1.43)	1.08 (0.96–1.21)	
10–14	Fall	1.31 (1.24–1.40)	1.28 (1.21–1.35)	1.12 (1.06–1.18)	1.24 (1.18–1.31)	0.96 (0.92–1.01)	
	Spring	1.32 (1.24–1.40)	1.73 (1.62–1.84)	1.12 (1.05–1.18)	1.32 (1.25–1.39)	1.22 (1.16–1.28)	
15–17	Fall	1.17 (1.09–1.25)	1.08 (1.01–1.15)	1.08 (1.01–1.15)	1.26 (1.19–1.33)	1.01 (0.95–1.07)	
	Spring	1.18 (1.10–1.26)	1.56 (1.46–1.68)	1.13 (1.06–1.20)	1.37 (1.29–1.45)	1.20 (1.13–1.27)	
Poisoning by drugs, initial	encounter						
5_9	Fall	0.76 (0.69–0.84)	0 76 (0 69–0 84)	0.86 (0.78–0.96)	0.72 (0.66-0.80)	0.61 (0.56-0.67)	
5.5	Spring	0.73 (0.66–0.81)	1 33 (1 20–1 49)	0.76 (0.69–0.84)	0.83 (0.76–0.91)	0.82(0.75-0.90)	
10–14	Fall	1.20(1.14-1.26)	1 04 (0 99–1 09)	1 37 (1 31 - 1 43)	1 14 (1 10 - 1 19)	0.90 (0.86-0.93)	
	Spring	1.20(111-1.20) 1 18 (1 11-1.24)	2 03 (1 93–2 14)	1 34 (1 29–1 40)	1.05(1.00-1.09)	1.08(1.03-1.13)	
15_17	Fall	1 22 (1 18_1 27)	1 11 (1 07 - 1 15)	1.31(1.25)(1.10) 1.20(1.16-1.24)	1 20 (1 16–1 24)	1.00 (1.05 1.15)	
13-17	Spring	1.22(1.10-1.27) 1 15 (1 11_1 20)	1.11(1.07-1.13) 1.84 (1.76-1.91)	1.20(1.10-1.24) 1.16(1.12-1.21)	1.20(1.10-1.24) 1 18 (1 14-1 22)	1.01(0.97 - 1.04) 1.10(1.06 - 1.14)	
c	Spring	1.13 (1.11=1.20)	1.0+(1.70-1.21)	1.10(1.12-1.21)	1.10(1.14-1.22)	1.10 (1.00-1.14)	
Symptoms of mental and s	substance use cor	nditions			4 99 (4		
2-9	Fall	1.42 (1.35–1.50)	1.23 (1.18–1.29)	1.29 (1.22–1.37)	1.20 (1.14–1.27)	0.84 (0.80–0.88)	
	Spring	1.42 (1.35–1.50)	1.32 (1.24–1.40)	1.12 (1.06–1.19)	1.25 (1.18–1.31)	1.07 (1.01–1.12)	
10–14	Fall	1.39 (1.34–1.44)	1.16 (1.12–1.20)	1.29 (1.25–1.34)	1.23 (1.19–1.27)	0.97 (0.95–1.00)	
	Spring	1.43 (1.38–1.49)	1.47 (1.42–1.53)	1.27 (1.23–1.31)	1.34 (1.30–1.38)	1.19 (1.16–1.23)	
15–17	Fall	1.22 (1.17–1.27)	1.05 (1.01–1.09)	1.11 (1.07–1.15)	1.16 (1.12–1.20)	0.99 (0.96–1.02)	
	Spring	1.30 (1.25–1.35)	1.55 (1.49–1.61)	1.08 (1.04–1.12)	1.33 (1.28–1.37)	1.19 (1.15–1.23)	

Abbreviation: ED = emergency department.

* Visit ratio was defined as the proportion of all ED visits for a selected mental and behavioral health condition during the school semester (fall school semester [calendar weeks 37–53, September–December]; spring school semester [calendar weeks 1–23, January–June]) divided by the proportion of ED visits for that condition during the immediately preceding summer period (calendar weeks 24–36, June–September).

 $^+$ To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation of ED visits \leq 40 and average weekly informative discharge diagnosis \geq 75% complete with consistent discharge diagnosis code formatting during January 2018–June 2023.

⁵ National Syndromic Surveillance Program is a collaboration among CDC; local and state health departments; and federal, academic, and private sector partners. https://www.cdc.gov/ nssp/index.html

Mental and behavioral		I	Mean weekly no. of vis	Change in mean weekly no. of visits (% Change)		
School year	Age group, yrs	Summer	Fall	Spring	Fall	Spring
Depressive disorders						
2018–2019	5–9	28.5	55.6	62.5	27.1 (95.1)	34.0 (119.3)
	10-14	528.7	1,013.1	1,132.6	484.4 (91.6)	603.9 (114.2)
	15–17	904.3	1,413.4	1,434.1	509.1 (56.3)	529.8 (58.6)
2019–2020	5-9	31.4	58.0	27.2	26.6 (84.7)	-4.2 (-13.4)
	10-14	591.5	1.072.9	638.6	481.4 (81.4)	47.1 (8.0)
	15-17	1.003.8	1,516.3	931.6	512.5 (51.1)	-72.2 (-7.2)
2020-2021	5-9	23.2	28.4	38.5	5.2 (22.4)	15.3 (65.9)
	10-14	645.2	972.4	1,238,1	327.2 (50.7)	592.9 (91.9)
	15-17	1 006 9	1 263 9	1 413 4	257.0 (25.5)	406 5 (40 4)
2021-2022	5-9	22.8	37.1	40.6	14 3 (62 7)	17.8 (78.1)
2021-2022	10-14	748 9	1 194 5	1 167 4	445.6 (59.5)	418 5 (55 9)
	15-17	1 017 8	1,154.5	1 367 1	440 3 (43 3)	349 3 (34 3)
2022_2023	5_9	77.0	33.1	38.6	10.9 (49.1)	16.4 (73.9)
2022-2025	10_14	617.7	986.5	1 065 8	368.8 (59.7)	448 1 (72 5)
	15_17	886.5	1 210 7	1,005.0	333 2 (37.6)	201 (22 2)
Suicidal ideation or colf	10-17 barm	880.5	1,219.7	1,100.9	555.2 (57.0)	294.4 (33.2)
2018–2019	-iidiiii 5_9	52.9	100 7	1197	47 8 (90 4)	66.8 (126.3)
2010 2017	10–14	628.2	1 1 2 6 2	1 282 5	498 () (79 3)	654 3 (104 2)
	15-17	913 2	1 394 1	1 404 4	480 9 (52 7)	491 2 (52 8)
2019-2020	5_9	59.2	1,554.1	51.0	52 5 (88 7)	_8 2 (_13 9)
2019-2020	10_14	727.5	1 271 0	804.2	543 5 (74 7)	76 7 (10 5)
	15_17	1 016 1	1,271.0	1 020 5	/28 / (/8 1)	13 / (13)
2020_2021	5_0	/0.0	61.0	80.7	11 1 (22 2)	30.8 (61.7)
2020-2021	10 14	49.9	1 275 1	1 626 9	11.1 (22.2)	20.0 (01.7) 202 0 (02 0)
	10-14	1 075 2	1,27,5.1	1,020.0	437.2 (33.9)	564 7 (52 5)
2021 2022	5.0	1,073.3	1,431.9	1040.0	330.0 (33.2) 41.1 (96.2)	504.7 (32.3)
2021–2022	5-9	47.7	00.0	105.9	41.1 (00.2)	50.2 (TZZ.U)
	10-14	1,037.5	1,089.0	1,085.0	652.1 (62.9) 567.7 (46.2)	048.1 (02.5)
2022 2022	15-17	1,227.7	1,/95.4	1,708.0	22.2 (60.0)	480.9 (39.2)
2022–2023	5-9	54.5	87.7	101.3	33.2 (60.9)	40.8 (85.9)
	10-14	956.8	1,455.4	1,648.8	498.6 (52.1)	692.0 (72.3)
T		1,177.5	1,394.5	1,019.4	410.0 (55.4)	441.9 (57.5)
Trauma- and stressor-re	lated disorders	75.0	116.6	126.1	40.0 (52.0)	(0, 2)
2018-2019	5-9	/ 5.8	110.0	130.1	40.8 (53.8)	00.3 (79.0)
	10-14	249.5	400.5	458.9	151.0 (60.5)	209.4 (83.9)
	15-17	2/8.8	3/3.9	407.8	95.1 (34.1)	129.0 (46.3)
2019-2020	5-9	/6.8	125.9	69.4	49.1 (63.9)	-/.4 (-9.6)
	10-14	280.0	435.0	250.9	155.0 (55.4)	-29.1 (-10.4)
2020 2024	15-17	320.2	419.2	266.5	99.0 (30.9)	-53./ (-16.8)
2020-2021	5-9	68.8	68.8	75.8	0 (—)	/.0 (10.2)
	10-14	255.5	324.2	396.5	68.7 (26.9)	141 (55.2)
	15–17	290.6	316.9	359.4	26.3 (9.1)	68.8 (23.7)
2021–2022	5–9	55.1	84.1	102.4	29 (52.6)	47.3 (85.8)
	10–14	280.8	427.6	457.7	146.8 (52.3)	176.9 (63.0)
	15–17	309.7	402.8	395.9	93.1 (30.1)	86.2 (27.8)
2022–2023	5–9	61.2	80.2	81.5	19.0 (31.0)	20.3 (33.2)
	10–14	276.5	398.2	440.6	121.7 (44.0)	164.1 (59.3)
	15–17	310.5	385.2	394.1	74.7 (24.1)	83.6 (26.9)
Cannabis-related disord	lers					
2018–2019	5–9	1.7	2.4	3.0	0.7 (41.2)	1.3 (76.5)
	10–14	49.9	73.8	92.4	23.9 (47.9)	42.5 (85.2)
	15–17	290.2	366.6	417.2	76.4 (26.3)	127 (43.8)
2019–2020	5–9	3.3	4.0	5.4	0.7 (21.2)	2.1 (63.6)
	10–14	73.0	96.6	65.0	23.6 (32.3)	-8.0 (-11.0)
	15–17	331.0	405.8	319.4	74.8 (22.6)	-11.6 (-3.5)
2020–2021	5–9	8.1	7.6	13.9	-0.5 (-6.2)	5.8 (71.6)
	10–14	74.2	75.1	105.0	0.9 (1.2)	30.8 (41.5)
	15–17	341.7	337.1	389.9	-4.6 (-1.3)	48.2 (14.1)

TABLE 2. Total and weekly emergency department visits* and percentage change[†] from the fall and spring school semester compared with the summer period for mental and behavioral health conditions among children and adolescents aged 5–17 years, by year and age group — National Syndromic Surveillance Program,[§] United States, January 2018–June 2023

See table footnotes on page 1038.

TABLE 2. (Continued) Total and weekly emergency department visits* and percentage change [†] from the fall and spring school semester
compared with the summer period for mental and behavioral health conditions among children and adolescents aged 5-17 years, by year
and age group — National Syndromic Surveillance Program, [§] United States, January 2018–June 2023

Relation of the management factorsSummerFallSpringFall $2021-2022$ $5-9$ 12.9 6.9 14.3 -6.0 (-46.5) $10-14$ 75.9 117.9 170.6 42.0 (55.3) $15-17$ 318.6 398.9 488.5 80.3 (25.2) $2022-2023$ $5-9$ 13.4 12.8 18.6 -0.6 (-4.5) $10-14$ 99.9 152.6 202.6 52.7 (52.8) $15-17$ 367.6 431.4 500.1 63.8 (17.4)Lifestyle or life management factors $2018-2019$ $5-9$ 7.0 10.6 10.1 3.6 (51.4) $2019-2020$ $5-9$ 7.5 11.1 5.4 3.6 (48.0) $2019-2020$ $5-9$ 7.5 11.1 5.4 3.6 (48.0) $2019-2020$ $5-9$ 6.9 5.8 8.0 -1.1 (-15.9) $202-2021$ $5-9$ 6.9 5.8 8.0 -1.1 (-15.9) $202-2021$ $5-9$ 6.9 5.8 8.0 -1.1 (-15.9) $202-2021$ $5-9$ 7.1 7.6 9.9 0.5 (7.0) $2021-2022$ $5-9$ 7.1 7.6 9.9 0.5 (7.0) $2021-2022$ $5-9$ 6.5 9.0 13.5 2.5 (38.5) $202-2023$ $5-9$ 6.5 9.0 13.5 2.5 (38.5) $202-2023$ $5-9$ 6.5 9.0 13.5 2.5 (38.5) $202-2023$ $5-9$ 6.5 9.0 13.5	Change in mean weekly no. of visits (% Change)	
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10-14 147 5 169.2 216.4 21.7 (14.7)	68.9 (46.7)	
15-17 1245 1349 1644 104(84)	39.9 (32.0)	
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10-14 100.5 254.1 201.6 05.0 (50.7)	56.0 (41.9)	
15-17 130.1 163.7 173.0 47.0 (30.0)	50.9 (41.8)	
2022-2023 3-9 30.2 44.1 52.1 7.9 (21.8)	15.9 (43.9)	
10-14 187.4 243.2 285.5 55.8 (29.8)	98.1 (52.3)	
15-17 157.1 187.1 207.4 30.0 (19.1)	50.3 (32.0)	
Poisoning by drugs, initial encounter		
2018–2019 5–9 55.9 50.1 56.6 –5.8 (–10.4)	0.7 (1.3)	
10–14 167.0 235.6 267.5 68.6 (41.1)	100.5 (60.2)	
15–17 318.3 434.9 431.2 116.6 (36.6)	112.9 (35.5)	
2019-2020 5-9 55.8 53.9 41.1 -1.9(-3.4)	-14.7 (-26.3)	
10-14 1954 250.8 219.6 55.4 (28.4)	24.2 (12.4)	
15-17 347 2 445 3 370.6 981 (283)	234(67)	
2020-2021 5-0 565 469 577 -06(-170)	1 2 (2 1)	
10 14 2015 2027 400 7 02 2 (40.2)	177 2 (76 5)	
10-14 231.3 324.7 400.7 75.2 (40.3) 15 17 291.9 460.0 510.3 70.3 (20.5)	177.2 (70.3)	
13-17 361.6 400.0 319.5 76.2 (20.3)	137.3 (30.0)	
2021-2022 5-9 61.6 50.6 66.4 -11.0 (-1.79)	4.8 (7.8)	
10-14 301.3 386.1 3/1.5 84.8 (28.1)	/0.2 (23.3)	
15-17 413.6 532.2 506.9 118.6 (28.7)	93.3 (22.6)	
2022–2023 5–9 66.2 61.2 72.6 –5.0 (–7.6)	6.4 (9.7)	
10-14 264.9 319.3 358.1 54.4 (20.5)	93.2 (35.2)	
15-17 397.1 472.4 481.2 75.3 (19.0)	84.1 (21.2)	
Symptoms of mental and substance use conditions		
2018-2019 5-9 152.8 255.2 299.6 102.4 (67.0)	146.8 (96.1)	
10-14 3435 5536 6714 2201 (641)	327 9 (95 5)	
15-17 280.8 204.1 441.0 1042 (26.0)	157 1 (57 5)	

See table footnotes on page 1038.

Mental and behavioral health condition/ School year		Mean weekly no. of visits			Change in mean weekly no. of visits (% Change)	
	– Age group, yrs	Summer	Fall	Spring	Fall	Spring
2019–2020	5–9	194.5	306.2	141.4	111.7 (57.4)	-53.1 (-27.3)
	10–14	470.1	675.6	382.9	205.5 (43.7)	-87.2 (-18.5)
	15–17	384.6	465.5	346.3	80.9 (21.0)	-38.3 (-10.0)
2020–2021	5–9	148.4	184.7	224.4	36.3 (24.5)	76.0 (51.2)
	10–14	420.2	556.9	700.4	136.7 (32.5)	280.2 (66.7)
	15–17	393.3	438.2	496.5	44.9 (11.4)	103.2 (26.2)
2021–2022	5–9	175.7	240.2	284.4	64.5 (36.7)	108.7 (61.9)
	10–14	532.5	732.7	842.7	200.2 (37.6)	310.2 (58.3)
	15–17	433.2	537.9	595.7	104.7 (24.2)	162.5 (37.5)
2022–2023	5–9	198.5	251.1	282.5	52.6 (26.5)	84.0 (42.3)
	10–14	560.2	734.2	835.8	174.0 (31.1)	275.6 (49.2)
	15–17	477.5	556.9	623.5	79.4 (16.6)	146.0 (30.6)

TABLE 2. (*Continued*) Total and weekly emergency department visits* and percentage change[†] from the fall and spring school semester compared with the summer period for mental and behavioral health conditions among children and adolescents aged 5–17 years, by year and age group — National Syndromic Surveillance Program,[§] United States, January 2018–June 2023

* To reduce artifactual impact from changes in reporting patterns, analyses were restricted to facilities with a coefficient of variation of emergency department visits ≤40 and average weekly informative discharge diagnosis ≥75% complete with consistent discharge diagnosis code formatting during January 2018–June 2023.

[†] Percent change was calculated as visits during the fall school semester (calendar weeks 37–53, September–December) and spring school semester (calendar weeks 1–23, January–June) separately compared with visits during the summer period (calendar weeks 24–36, June–September).

[§] National Syndromic Surveillance Program is a collaboration among CDC; local and state health departments; and federal, academic, and private sector partners. https://www.cdc.gov/nssp/index.html

weekly visit counts (percent change <0) compared with the 2019 summer period. These findings indicate that the relative proportion of visits was higher while the mean weekly number of visits was lower and was likely influenced by the public health emergency declaration for the COVID-19 pandemic in March 2020 (1,3).

These findings raise concerns about the challenges U.S. children and adolescents face in the school environment (4). Several factors might contribute to these increases. Children and adolescents can experience unique school-related stressors,** including transitioning into the school year or attending a new school, academic performance pressure and testing, and in-school bullying and peer victimization. Social anxiety might lead to worsening mental health, resulting in a visit to an ED (5-7). School- and provider-based screenings and assessments for mental health usually increase at the start of the school year, prompting referral for care (8). Mental and behavioral health conditions might be recognized by school staff members when they manifest in classroom behavioral issues (e.g., disruption in class, poor attendance, and poor academic performance), or when students disclose mental health challenges.

Engaging children and adolescents in social and emotional learning (SEL) programs can promote their emotional wellbeing. School-based SEL programs^{††} provide students and teachers with tools to cope with stressors. Other strategies that have been shown to be effective at promoting and maintaining emotional well-being among children and adolescents include pediatric mental health care access programs; suicide prevention gatekeeper trainings; trauma and grief interventions; crisis intervention and response services; peer-led approaches to encourage students to seek help; evidence-based comprehensive school health–education curriculum that includes lessons on mental health disorders, self-care, substance use prevention and sexual health education, providing access to local and national mobile crisis services, and expanding community-based service alternatives (2,9,10).

Multisector collaboration and coordination, including government, education, and community organizations, are needed to promote and prioritize child and adolescent mental health and to avoid placing the responsibility of improvement solely on educational institutions.^{§§} Evidence-based strategies (e.g., CDC's Preventing Adverse Childhood Experiences [ACEs]: Leveraging the Best Available Evidence resource)^{¶¶} offer options for a comprehensive and systems-level approach to supporting children and families. State and local government agencies and school partners can collaborate when addressing the behavioral health of children. CDC approaches, including the Whole School, Whole Community, Whole Child model,*** What Works in Schools program,^{†††} Suicide Prevention Resource

^{**} https://www.scientificamerican.com/article/childrens-risk-of-suicideincreases-on-school-days/

^{††} https://www.apa.org/monitor/2020/09/classroom-connections

^{§§} https://www.hhs.gov/sites/default/files/surgeon-general-youth-mentalhealth-advisory.pdf

⁵⁹ https://www.cdc.gov/violenceprevention/pdf/ACEs-Prevention-Resource_508.pdf

^{***} https://www.cdc.gov/healthyschools/wscc/index.htm

^{†††} https://www.cdc.gov/healthyyouth/whatworks/index.htm

for Action,^{§§§} and ACEs training module can be useful for schools seeking to support or enhance protective factors and respond using trauma-informed methods (*7,9*). Government agencies can collaborate to establish tailored and culturally responsive messaging^{§§},****,^{††††} for various audiences (e.g., parents and caregivers, students, community leaders, health care providers, and educational professionals), including social media campaigns about students' mental health needs during certain times of the year.^{§§§§}

Limitations

The findings in this report are subject to at least five limitations. First, NSSP ED visit data are a convenience sample and are not nationally representative. Second, ED visits represent unique events, not individual persons, and might reflect multiple visits for one person. Third, HCUP Clinical Classifications Software Refined categories are not mutually exclusive; codes can appear in more than one category. Fourth, results for children aged 5-9 years should be interpreted with caution, particularly data about suicidal ideation or self-harm, because of low visit volume and uncertainty about intentionality. Finally, because school start and end dates vary within and across regions, some ED visits might be misclassified, resulting in underestimation of the extent of the increase in number of ED visits for mental and behavioral health conditions; many such visits can occur outside of EDs and reasons for changes in ED visit patterns cannot be ascertained from these data.

Public Health Implications

Systemic changes that prioritize protective factors (e.g., physical activity; nutrition; sleep; social, community, or faithbased support; and inclusive school and community environments) and well-being promotion might improve mental health among children and adolescents long before a trip to an ED is needed. These changes include consideration of the seasonal timing of increases in child and adolescent mental and behavioral health conditions; efforts to incorporate preparedness for mental health concerns into programmatic planning, especially during back-to-school; prevention of conditions that increase risk for mental disorders; early identification of mental health disorders; and targeted interventions. Parents and caregivers, educators, health care providers, and others who regularly interact with children and adolescents can learn about signs

Summary

What is already known about this topic?

Mental and behavioral health conditions are common among school-aged children in the United States.

What is added by this report?

Each year, during 2018–2023, among children and adolescents aged 10–17 years, the number and proportion of weekly emergency department visits for eight mental and behavioral health conditions displayed seasonal increases during the fall and spring school semesters relative to the summer period; timing of increases varied by specific condition.

What are the implications for public health practice?

Systemic changes that prioritize protective factors, such as physical activity, social support, and inclusive school environments, and incorporate preparedness for increases in mental and behavioral health conditions during back-to-school planning might help improve child and adolescent mental health.

and symptoms of mental distress^{\$555} and monitor children and adolescents for possible increases in mental distress in the weeks leading up to and during the academic year.

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^{\$\$\$} https://www.cdc.gov/suicide/resources/prevention.html

^{\$55} https://www2.ed.gov/documents/students/supporting-child-student-socialemotional-behavioral-mental-health.pdf

^{****} https://store.samhsa.gov/product/Identifying-Mental-Health-and-Substance-Use-Problems-of-Children-and-Adolescents-A-Guide-for-Child-Serving-Organizations/SMA12-4700

^{††††} https://vetoviolence.cdc.gov/apps/aces-training/#/edu#top

^{\$\$\$\$} https://knowledgerepository.syndromicsurveillance.org/ mental-and-behavioral-health-resources

ffff https://www.cdc.gov/childrensmentalhealth/basics.html

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