

**SUPPLEMENTARY TABLE 1. Diagnostic categories<sup>†</sup> with the largest increase or decrease<sup>§</sup> in mean weekly emergency department visits\* and largest relative change\*\* among children and adolescents aged <18 years – National Syndromic Surveillance Program, United States,<sup>††</sup> 2019–2022**

Surveillance period/Diagnostic Categories <sup>†</sup>	2019 ED Visits	2020 ED Visits	Mean weekly change in no. of ED visits	Visit Ratio (95%CI) <sup>¶</sup>
<b>2020 (March 15, 2020–January 2, 2021) vs 2019 (March 10, 2019–December 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	39,626	297,528	6,141	15.38 (15.22–15.55)
COVID-19	N/A	41,424	986	N/A
Other specified encounters and counseling	9,729	11,523	43	2.43 (2.36–2.49)
External cause codes: pedal cyclist; not MVT; initial encounter	13,610	15,311	41	2.30 (2.25–2.36)
External cause codes: firearm; initial encounter	2,457	3,579	27	2.98 (2.84–3.14)
External cause codes: intent of injury; self-harm	26,015	27,092	26	2.13 (2.10–2.17)
Calculus of urinary tract	6,789	7,289	12	2.20 (2.13–2.27)
Encounter for antineoplastic therapies	467	886	10	3.89 (3.48–4.35)
Gastrointestinal and biliary perforation	4,049	4,324	7	2.19 (2.10–2.28)
Hallucinogen-related disorders	701	969	6	2.83 (2.57–3.12)
Bone cancer	420	589	4	2.87 (2.54–3.26)
Opioid-related disorders	2,227	2,391	4	2.20 (2.08–2.33)
Internal organ injury; initial encounter	5,354	5,489	3	2.10 (2.02–2.18)
<b>Categories with the largest decrease</b>				
Sprains and strains; initial encounter	268,029	117,865	-3,575	0.90 (0.89–0.91)
Influenza	180,872	8,448	-4,105	0.10 (0.09–0.10)
Acute bronchitis	209,663	32,578	-4,216	0.32 (0.31–0.32)
Other specified status	420,735	234,900	-4,425	1.14 (1.14–1.15)
Other unspecified injury	453,775	266,846	-4,451	1.20 (1.20–1.21)
Superficial injury; contusion; initial encounter	461,642	268,374	-4,602	1.19 (1.19–1.20)
Asthma	347,051	127,559	-5,226	0.75 (0.75–0.76)
Abdominal pain and other digestive/abdomen signs and symptoms	600,678	299,280	-7,176	1.02 (1.02–1.03)
External cause codes: intent of injury; accidental/unintentional	1,056,866	731,482	-7,747	1.42 (1.41–1.42)
Nausea and vomiting	536,103	198,778	-8,032	0.76 (0.76–0.76)
Otitis media	461,814	112,735	-8,311	0.50 (0.50–0.50)
Respiratory signs and symptoms	599,592	234,833	-8,685	0.80 (0.80–0.81)
Fever	707,453	294,080	-9,842	0.85 (0.85–0.86)
Viral infection	667,746	195,757	-11,238	0.60 (0.60–0.60)
Other specified upper respiratory infections	1,147,690	308,253	-19,987	0.55 (0.55–0.55)
<b>Other categories with largest relative change</b>				
Cornea and external disease	143,195	38,188	-2,500	0.55 (0.54–0.55)
Noninfectious gastroenteritis	105,650	26,735	-1,879	0.52 (0.51–0.53)
Intestinal infection	67,093	16,117	-1,214	0.49 (0.48–0.50)
Sinusitis	31,149	7,064	-574	0.46 (0.45–0.48)
Pneumonia (except that caused by tuberculosis)	126,632	27,419	-2,362	0.44 (0.44–0.45)
<b>2021 (January 3, 2021–January 1, 2022) vs. 2019 (December 30, 2018–Dec 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	49,795	854,967	15,484	21.89 (21.69–22.09)
COVID-19	N/A	185,912	3,575	N/A
Suicidal ideation/attempt/intentional self-harm	119,657	144,419	476	1.54 (1.53–1.55)
External cause codes: intent of injury; self-harm	32,552	43,771	216	1.71 (1.69–1.74)
Circulatory signs and symptoms	114,477	124,817	199	1.39 (1.38–1.40)
Poisoning by drugs; initial encounter	50,251	58,657	162	1.49 (1.47–1.51)
Socioeconomic/psychosocial factors	23,510	30,562	136	1.66 (1.63–1.69)

Malaise and fatigue	32,597	36,987	84	1.45 (1.43–1.47)
Symptoms of mental health conditions and substance abuse	72,264	75,384	60	1.33 (1.32–1.34)
Abnormal findings without diagnosis	55,646	58,718	59	1.35 (1.33–1.36)
Feeding and eating disorders	3,729	5,740	39	1.96 (1.88–2.04)
Hearing loss	4,391	6,393	39	1.86 (1.79–1.93)
Systemic lupus erythematosus and connective tissue disorders	3,312	5,285	38	2.03 (1.95–2.12)
Respiratory failure; insufficiency; arrest	27,974	29,780	35	1.36 (1.34–1.38)
<b>Categories with the largest decrease</b>				
Other specified status	519,998	420,589	-1,912	1.03 (1.03–1.04)
Cornea and external disease	176,336	75,855	-1,932	0.55 (0.54–0.55)
External cause codes: activity codes	326,974	220,528	-2,047	0.86 (0.86–0.86)
External cause codes: place of occurrence of the external cause	394,739	267,862	-2,440	0.87 (0.86–0.87)
Superficial injury; contusion; initial encounter	537,310	403,936	-2,565	0.96 (0.95–0.96)
Nausea and vomiting	686,381	544,993	-2,719	1.01 (1.01–1.02)
Bacterial infections	234,841	93,128	-2,725	0.51 (0.50–0.51)
Viral infection	869,224	725,923	-2,756	1.06 (1.06–1.07)
Asthma	423,025	279,226	-2,765	0.84 (0.84–0.85)
Abdominal pain and other digestive/abdomen signs and symptoms	749,106	585,315	-3,150	1.00 (0.99–1.00)
External cause codes: intent of injury; accidental/unintentional	1,232,874	1,029,699	-3,907	1.06 (1.06–1.07)
Fever	912,112	674,268	-4,574	0.94 (0.94–0.95)
Otitis media	596,564	330,660	-5,114	0.71 (0.70–0.71)
Influenza	340,362	26,494	-6,036	0.10 (0.10–0.10)
Other specified upper respiratory infections	1,478,574	1,044,549	-8,347	0.90 (0.90–0.90)
<b>Other categories with largest relative change</b>				
Sequelae of specified infectious disease conditions	134	618	9	5.88 (4.88–7.09)
Foodborne intoxications	581	1,331	14	2.92 (2.65–3.22)
Encounter for antineoplastic therapies	575	1,156	11	2.56 (2.32–2.83)
Menopausal disorders <sup>§§</sup>	600	1,144	11	2.43 (2.20–2.68)
Suicide attempt/intentional self-harm; subsequent encounter	211	339	3	2.05 (1.72–2.43)
External cause codes: firearm; initial encounter	2,868	4,181	25	1.86 (1.77–1.95)
Rheumatoid arthritis and related disease	447	229	-4	0.65 (0.56–0.77)
Immune-mediated/reactive arthropathies	319	163	-3	0.65 (0.54–0.79)
Pneumonia (except that caused by tuberculosis)	161,489	78,325	-1,599	0.62 (0.61–0.62)
Sinusitis	40,189	19,245	-403	0.61 (0.60–0.62)
Meningitis	2,616	1,217	-27	0.59 (0.55–0.63)
Diabetes mellitus; due to underlying condition; drug or chemical induced; or other specified type	3,656	1,659	-38	0.58 (0.55–0.61)
Lung disease due to external agents	1,983	849	-22	0.55 (0.50–0.59)

<b>2022 (January 2, 2022–January 29, 2022) vs. 2019 (December 30, 2018–January 26, 2019)</b>	<b>2019 ED Visits</b>	<b>2022 ED Visits</b>	<b>Mean weekly change in no. of ED visits</b>	<b>Visit Ratio (95%CI)</b>
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	3,329	91,201	21,968	35.41 (34.21–36.66)
COVID-19	N/A	82,250	20,563	NA (NA–NA)
Suicidal ideation/attempt/intentional self-harm	8,481	10,454	493	1.59 (1.55–1.64)
Nervous system signs and symptoms	15,067	16,965	475	1.46 (1.42–1.49)
Circulatory signs and symptoms	8,505	10,301	449	1.57 (1.52–1.61)
Malaise and fatigue	2,261	3,705	361	2.12 (2.01–2.23)
Nonspecific chest pain	8,304	9,682	345	1.51 (1.46–1.55)
External cause codes: intent of injury; self-harm	2,359	3,203	211	1.75 (1.66–1.85)
Poisoning by drugs; initial encounter	3,566	4,248	171	1.54 (1.47–1.61)
Socioeconomic/psychosocial factors	1,509	2,116	152	1.81 (1.70–1.94)
Symptoms of mental health conditions and substance abuse	4,575	5,173	150	1.46 (1.40–1.52)
Headache; including migraine	14,852	15,243	98	1.33 (1.30–1.36)
Other specified encounters and counseling	791	1,164	93	1.90 (1.74–2.08)

Abnormal findings without diagnosis	3,951	4,183	58	1.37 (1.31–1.43)
<b>Categories with the largest decrease</b>				
External cause codes: activity codes	17,938	11,571	-1,592	0.83 (0.81–0.85)
Superficial injury; contusion; initial encounter	27,885	20,457	-1,857	0.95 (0.93–0.97)
Fever	71,214	63,720	-1,874	1.16 (1.14–1.17)
Pneumonia (except that caused by tuberculosis)	13,403	5,542	-1,965	0.53 (0.52–0.55)
External cause codes: place of occurrence of the external cause	21,641	13,267	-2,094	0.79 (0.78–0.81)
Asthma	25,611	16,219	-2,348	0.82 (0.80–0.83)
Abdominal pain and other digestive/abdomen signs and symptoms	55,136	45,383	-2,438	1.06 (1.05–1.08)
External cause codes: intent of injury; accidental/unintentional	64,770	54,359	-2,603	1.08 (1.07–1.10)
Nausea and vomiting	54,924	44,198	-2,682	1.04 (1.03–1.05)
Bacterial infections	17,560	6,595	-2,741	0.49 (0.47–0.50)
Viral infection	77,822	58,222	-4,900	0.97 (0.96–0.98)
Acute bronchitis	36,576	11,424	-6,288	0.40 (0.40–0.41)
Otitis media	51,571	22,838	-7,183	0.57 (0.56–0.58)
Influenza	37,723	6,978	-7,686	0.24 (0.23–0.25)
Other specified upper respiratory infections	121,872	87,851	-8,505	0.93 (0.92–0.94)
<b>Other categories with largest relative change</b>				
Encounter for mental health conditions	124	236	28	2.46 (1.98–3.06)
Systemic lupus erythematosus and connective tissue disorders	272	471	50	2.24 (1.93–2.60)
Feeding and eating disorders	274	408	34	1.92 (1.65–2.24)
Acute and unspecified renal failure	382	502	30	1.70 (1.49–1.94)
Parasitic; other specified and unspecified infections	2,326	1,177	-287	0.65 (0.61–0.70)
Postprocedural or postoperative respiratory system complication	334	165	-42	0.64 (0.53–0.77)
Cornea and external disease	12,268	5,923	-1,586	0.62 (0.60–0.64)
Sinusitis	3,381	1,293	-522	0.49 (0.46–0.53)
Diabetes mellitus; due to underlying condition; drug or chemical induced; or other specified type	375	123	-63	0.42 (0.35–0.52)

**Abbreviation:** ED = emergency department; NSSP = National Syndromic Surveillance Program; N/A = not applicable

\* The weekly change in ED visits during the surveillance and comparison periods was calculated as the difference in total counts between the two periods, divided by the number of weeks.

† ED visits were categorized using the Clinical Classifications Software Refined tool from the Healthcare Cost and Utilization Project, which combines individual International Classification of Diseases, Tenth Revision, Clinical Modification codes into clinically meaningful groups; visits with multiple codes could be included in multiple categories and multiple codes in the same categories would only be counted once per visit. For a full list of categories and corresponding codes, please visit the HCUP website: <https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

§ The analysis was conducted by selecting 15 categories with the greatest increases and decreases in mean weekly visits; no filtering on visit count or relative standard error was applied to this section to allow for COVID-19 codes to be in the returned data set. To retain practical relevance, categories were restricted to those with a total difference of  $\geq 100$  visits between surveillance and comparison periods.

¶ Ratio calculated as the proportion of all ED visits in each diagnostic category during the surveillance period, divided by the proportion of all ED visits in that category during the comparison period. Ratios  $>1$  indicate a higher proportion of visits in that category during the surveillance period than during the comparison period; ratios  $<1$  indicate a lower proportion during the surveillance period than during the comparison period.

\*\* This analysis was conducted by identifying 20 categories with the largest relative change. Categories with both, greatest relative change and greatest change in mean weekly visits, were only included in the largest increase or largest decrease sections. Ratios with a confidence interval of N/A either have  $<100$  visits for that category during one of the periods and/or have a relative standard error  $>30$ . To retain practical relevance, categories were restricted to those with an absolute difference of  $\geq 100$  weekly visits between surveillance and comparison periods.

†† 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  $\leq 40$  and average weekly informative discharge diagnosis  $\geq 75\%$  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, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, Guam, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. <https://www.cdc.gov/nssp/index.html>.

§§ Menopausal Disorders category includes codes related to hormone replacement therapy, long-term therapy, premenopausal, perimenopausal, and menopausal visits. For a full list of categories and corresponding codes, please visit the HCUP website: <https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

**SUPPLEMENTARY TABLE 2. Diagnostic categories<sup>†</sup> with the largest increase or decrease<sup>§</sup> in mean weekly emergency department visits\* and largest relative change\*\* among children aged 0–4 years – National Syndromic Surveillance Program, United States,<sup>††</sup> 2019–2022**

Surveillance period/Diagnostic Categories <sup>†</sup>	2019 ED Visits	2020 ED Visits	Mean weekly change in no. of ED visits	Visit Ratio (95%CI) <sup>¶</sup>
<b>2020 (March 15, 2020–January 2, 2021) vs 2019 (March 10, 2019–December 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	13,742	109,696	2,285	17.96 (17.64–18.28)
COVID-19	N/A	13,650	325	N/A
Other specified encounters and counseling	2,696	3,633	22	3.03 (2.88–3.19)
Cannabis-related disorders	425	745	8	3.94 (3.50–4.44)
External cause codes: pedal cyclist; not MVT; initial encounter	1,043	1,318	7	2.84 (2.62–3.08)
Encounter for antineoplastic therapies	171	294	3	3.87 (3.20–4.67)
External cause codes: firearm; initial encounter	127	237	3	4.20 (3.38–5.21)
<b>Categories with the largest decrease</b>				
Allergic reactions	107,963	52,254	-1,326	1.09 (1.08–1.10)
Pneumonia (except that caused by tuberculosis)	72,106	15,248	-1,354	0.48 (0.47–0.48)
Cornea and external disease	80,003	18,508	-1,464	0.52 (0.51–0.53)
Other specified status	138,759	68,094	-1,683	1.10 (1.09–1.11)
Influenza	77,027	4,553	-1,726	0.13 (0.13–0.14)
Asthma	104,488	26,832	-1,849	0.58 (0.57–0.59)
External cause codes: intent of injury; accidental/unintentional	360,008	273,622	-2,057	1.71 (1.70–1.72)
Abdominal pain and other digestive/abdomen signs and symptoms	175,523	69,644	-2,521	0.89 (0.88–0.90)
Acute bronchitis	172,192	25,329	-3,497	0.33 (0.33–0.34)
Nausea and vomiting	264,276	82,318	-4,332	0.70 (0.70–0.71)
Respiratory signs and symptoms	348,717	116,603	-5,527	0.75 (0.75–0.76)
Otitis media	323,902	84,859	-5,692	0.59 (0.58–0.59)
Fever	486,763	212,674	-6,526	0.98 (0.98–0.99)
Viral infection	445,493	119,441	-7,763	0.60 (0.60–0.61)
Other specified upper respiratory infections	653,060	158,073	-11,785	0.54 (0.54–0.55)
<b>Other categories with largest relative change</b>				
Open wounds to limbs; initial encounter	28,235	26,202	-48	2.09 (2.05–2.12)
Fracture of head and neck; initial encounter	7,141	6,612	-13	2.08 (2.01–2.15)
External cause codes: cut/pierce; initial encounter	9,019	8,317	-17	2.07 (2.01–2.14)
Fracture of the upper limb; initial encounter	32,517	29,350	-75	2.03 (2.00–2.06)
Gastritis and duodenitis	5,153	1,349	-91	0.59 (0.55–0.63)
Sinusitis	7,650	1,779	-140	0.52 (0.50–0.55)
Intestinal infection	37,853	8,565	-697	0.51 (0.50–0.52)
Noninfectious gastroenteritis	53,143	10,841	-1,007	0.46 (0.45–0.47)
<b>2021 (January 3, 2021–January 1, 2022) vs. 2019 (December 30, 2018–Dec 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	17,867	384,568	7,052	27.12 (26.72–27.53)
COVID-19	N/A	67,088	1,290	N/A
Circulatory signs and symptoms	47,161	54,514	141	1.46 (1.44–1.47)
Malaise and fatigue	8,880	10,945	40	1.55 (1.51–1.60)
Socioeconomic/psychosocial factors	9,441	11,432	38	1.53 (1.48–1.57)
Hearing loss	1,302	2,667	26	2.58 (2.42–2.76)
Neurodevelopmental disorders	12,760	13,712	18	1.35 (1.32–1.39)
Respiratory failure; insufficiency; arrest	20,124	20,925	15	1.31 (1.29–1.34)
Complication of other surgical or medical care; injury; initial encounter	8,089	8,865	15	1.38 (1.34–1.42)

Cannabis-related disorders	508	1,267	15	3.14 (2.84–3.48)
Systemic lupus erythematosus and connective tissue disorders	1,064	1,637	11	1.94 (1.79–2.09)
Obesity	881	1,373	10	1.96 (1.80–2.14)
Other specified encounters and counseling	3,305	3,597	6	1.37 (1.31–1.44)
Encounter for antineoplastic therapies	208	482	5	2.92 (2.48–3.44)
Fracture of the lower limb (except hip); initial encounter	15,943	16,202	5	1.28 (1.25–1.31)
<b>Categories with the largest decrease</b>				
Superficial injury; contusion; initial encounter	162,302	126,330	-692	0.98 (0.97–0.99)
Bacterial infections	70,878	33,856	-712	0.60 (0.59–0.61)
Asthma	126,243	84,289	-806	0.84 (0.83–0.85)
Pneumonia (except that caused by tuberculosis)	94,569	50,760	-843	0.68 (0.67–0.68)
Respiratory signs and symptoms	449,196	402,279	-902	1.13 (1.12–1.13)
Abdominal pain and other digestive/abdomen signs and symptoms	218,085	171,066	-904	0.99 (0.98–0.99)
Acute bronchitis	241,082	190,248	-978	0.99 (0.99–1.00)
Nausea and vomiting	338,614	280,860	-1,111	1.05 (1.04–1.05)
Cornea and external disease	100,488	39,932	-1,165	0.50 (0.49–0.51)
External cause codes: intent of injury; accidental/unintentional	420,607	357,987	-1,204	1.07 (1.07–1.08)
Viral infection	578,676	509,815	-1,324	1.11 (1.11–1.11)
Fever	618,556	500,467	-2,271	1.02 (1.02–1.02)
Influenza	145,637	11,165	-2,586	0.10 (0.09–0.10)
Otitis media	417,988	253,919	-3,155	0.77 (0.76–0.77)
Other specified upper respiratory infections	834,208	623,319	-4,056	0.94 (0.94–0.94)
<b>Other categories with largest relative change</b>				
Foodborne intoxications	163	341	3	2.64 (2.19–3.18)
Menopausal disorders <sup>§§</sup>	108	222	2	2.59 (2.06–3.26)
External cause codes: firearm; initial encounter	146	270	2	2.33 (1.91–2.85)
Acute phlebitis; thrombophlebitis and thromboembolism	292	392	2	1.69 (1.45–1.97)
Acute and chronic tonsillitis	11,747	6,471	-102	0.69 (0.67–0.72)
Meningitis	1,397	705	-13	0.64 (0.58–0.70)
Diabetes mellitus; due to underlying condition; drug or chemical induced; or other specified type	242	114	-3	0.59 (0.48–0.74)
Tobacco-related disorders	461	212	-5	0.58 (0.49–0.68)
External cause codes: transport; not MVT; initial encounter	2,870	1,307	-30	0.57 (0.54–0.61)
Lung disease due to external agents	755	310	-9	0.52 (0.45–0.59)

<b>2022 (January 2, 2022–January 29, 2022) vs 2019 (December 30, 2018–January 26, 2019)</b>	<b>2019 ED Visits</b>	<b>2022 ED Visits</b>	<b>Mean weekly change in no. of ED visits</b>	<b>Visit Ratio (95%CI)</b>
<b>Categories with the largest increase</b>				
COVID-19	N/A	40,908	10,227	N/A
Exposure; encounters; screening or contact with infectious disease	1,377	39,648	9,568	40.31 (38.21–42.54)
Circulatory signs and symptoms	3,817	4,338	130	1.59 (1.52–1.66)
Malaise and fatigue	646	945	75	2.05 (1.85–2.26)
Socioeconomic/psychosocial factors	610	831	55	1.91 (1.72–2.12)
Neurodevelopmental disorders	823	1,003	45	1.71 (1.56–1.87)
Other specified encounters and counseling	228	354	33	2.17 (1.84–2.57)
<b>Categories with the largest decrease</b>				
External cause codes: intent of injury; accidental/unintentional	22,749	19,587	-791	1.21 (1.18–1.23)
Bacterial infections	5,469	2,189	-820	0.56 (0.53–0.59)
Other general signs and symptoms	10,173	6,872	-825	0.95 (0.92–0.98)
Abdominal pain and other digestive/abdomen signs and symptoms	16,173	12,827	-837	1.11 (1.09–1.14)
Asthma	8,015	4,091	-981	0.71 (0.69–0.74)
Cornea and external disease	7,805	3,627	-1,045	0.65 (0.63–0.68)
Pneumonia (except that caused by tuberculosis)	9,183	3,749	-1,359	0.57 (0.55–0.59)
Fever	49,833	43,905	-1,482	1.23 (1.22–1.25)

Nausea and vomiting	28,286	21,300	-1,747	1.05 (1.04–1.07)
Respiratory signs and symptoms	40,878	32,625	-2,063	1.12 (1.10–1.13)
Influenza	18,267	3,235	-3,758	0.25 (0.24–0.26)
Otitis media	38,006	17,494	-5,128	0.64 (0.63–0.66)
Viral infection	55,932	34,769	-5,291	0.87 (0.86–0.88)
Acute bronchitis	32,545	9,908	-5,659	0.43 (0.42–0.44)
Other specified upper respiratory infections	73,413	50,632	-5,695	0.97 (0.95–0.98)
<b>Other categories with largest relative change</b>				
Epilepsy; convulsions	5,860	5,722	-35	1.37 (1.32–1.42)
Dislocations; initial encounter	1,986	1,842	-36	1.30 (1.22–1.38)
Medical examination/evaluation	2,307	2,134	-43	1.30 (1.22–1.37)
Acute and chronic tonsillitis	809	390	-105	0.67 (0.60–0.76)
No immunization or underimmunization	481	218	-66	0.63 (0.54–0.74)
Pleurisy; pleural effusion and pulmonary collapse	267	103	-41	0.54 (0.43–0.68)
Sinusitis	949	335	-154	0.49 (0.44–0.56)

**Abbreviation:** ED = emergency department; NSSP = National Syndromic Surveillance Program; N/A = not applicable

\* The weekly change in ED visits during the surveillance and comparison periods was calculated as the difference in total counts between the two periods, divided by the number of weeks.

† ED visits were categorized using the Clinical Classifications Software Refined tool from the Healthcare Cost and Utilization Project, which combines individual *International Classification of Diseases, Tenth Revision, Clinical Modification* codes into clinically meaningful groups; visits with multiple codes could be included in multiple categories and multiple codes in the same categories would only be counted once per visit. For a full list of categories and corresponding codes, please visit the HCUP website:

<https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

§ The analysis was conducted by selecting 15 categories with the greatest increases and decreases in mean weekly visits; no filtering on visit count or relative standard error was applied to this section to allow for COVID-19 codes to be in the returned data set. To retain practical relevance, categories were restricted to those with a total difference of  $\geq 100$  visits between surveillance and comparison periods.

¶ Ratio calculated as the proportion of all ED visits in each diagnostic category during the surveillance period, divided by the proportion of all ED visits in that category during the comparison period. Ratios  $>1$  indicate a higher proportion of visits in that category during the surveillance period than during the comparison period; ratios  $<1$  indicate a lower proportion during the surveillance period than during the comparison period.

\*\* This analysis was conducted by identifying 20 categories with the largest relative change. Categories with both, greatest relative change and greatest change in mean weekly visits, were only included in the largest increase or largest decrease sections. Ratios with a confidence interval of N/A either have  $<100$  visits for that category during one of the periods and/or have a relative standard error  $>30$ . To retain practical relevance, categories were restricted to those with an absolute difference of  $\geq 100$  weekly visits between surveillance and comparison periods.

†† 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  $\leq 40$  and average weekly informative discharge diagnosis  $\geq 75\%$  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, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, Guam, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. <https://www.cdc.gov/nssp/index.html>.

§§ Menopausal Disorders category includes codes related to hormone replacement therapy, long-term therapy, premenopausal, perimenopausal, and menopausal visits. For a full list of categories and corresponding codes, please visit the HCUP website: <https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

**SUPPLEMENTARY TABLE 3. Diagnostic categories<sup>†</sup> with the largest increase or decrease<sup>§</sup> in mean weekly emergency department visits\* and largest relative change\*\* among children aged 5–11 years – National Syndromic Surveillance Program, United States, <sup>††</sup> 2019–2022**

Surveillance period/Diagnostic Categories <sup>†</sup>	2019 ED Visits	2020 ED Visits	Mean weekly change in no. of ED visits	Visit Ratio (95%CI) <sup>¶</sup>
<b>2020 (March 15, 2020–January 2, 2021) vs 2019 (March 10, 2019–December 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	10,523	78,561	1,620	16.55 (16.22–16.89)
COVID-19	N/A	9,266	221	N/A
External cause codes: pedal cyclist; not MVT; initial encounter	7,403	8,299	21	2.49 (2.41–2.56)
Other specified encounters and counseling	2,884	3,076	5	2.36 (2.25–2.49)
Encounter for antineoplastic therapies	136	317	4	5.17 (4.23–6.32)
Cannabis-related disorders	258	433	4	3.72 (3.19–4.34)
<b>Categories with the largest decrease</b>				
Allergic reactions	88,746	39,076	-1,183	0.98 (0.96–0.99)
Other unspecified injury	142,419	77,709	-1,541	1.21 (1.20–1.22)
Other specified status	131,814	64,504	-1,602	1.08 (1.07–1.10)
Bacterial infections	90,259	21,103	-1,647	0.52 (0.51–0.53)
Superficial injury; contusion; initial encounter	159,073	86,765	-1,722	1.21 (1.20–1.22)
Influenza	76,668	2,484	-1,766	0.07 (0.07–0.07)
Otitis media	106,610	17,961	-2,111	0.37 (0.37–0.38)
Asthma	145,505	49,598	-2,284	0.76 (0.75–0.76)
Respiratory signs and symptoms	156,625	57,058	-2,371	0.81 (0.80–0.82)
Nausea and vomiting	157,500	48,218	-2,602	0.68 (0.67–0.69)
Viral infection	154,368	40,842	-2,703	0.59 (0.58–0.59)
Abdominal pain and other digestive/abdomen signs and symptoms	210,022	92,083	-2,808	0.97 (0.96–0.98)
External cause codes: intent of injury; accidental/unintentional	352,961	234,868	-2,812	1.48 (1.47–1.48)
Fever	173,156	51,295	-2,902	0.66 (0.65–0.66)
Other specified upper respiratory infections	336,714	83,115	-6,038	0.55 (0.54–0.55)
<b>Other categories with largest relative change</b>				
Diabetes mellitus; Type 2	2,587	2,458	-4	2.11 (1.99–2.23)
External cause codes: cut/pierce; initial encounter	17,097	16,098	-24	2.09 (2.04–2.13)
Open wounds to limbs; initial encounter	62,745	57,981	-113	2.05 (2.03–2.07)
Open wounds to limbs; subsequent encounter	1,798	1,651	-4	2.04 (1.90–2.18)
Noninfectious gastroenteritis	31,377	7,245	-575	0.51 (0.50–0.53)
Intestinal infection	19,455	4,177	-364	0.48 (0.46–0.49)
Sinusitis	9,679	1,849	-186	0.42 (0.40–0.45)
Tobacco-related disorders	1,331	246	-26	0.41 (0.36–0.47)
Acute bronchitis	23,035	3,753	-459	0.36 (0.35–0.37)
Pneumonia (except that caused by tuberculosis)	38,603	6,071	-775	0.35 (0.34–0.36)
<b>2021 (January 3, 2021–January 1, 2022) vs 2019 (December 30, 2018–Dec 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	13,291	237,675	4,315	25.21 (24.77–25.65)
COVID-19	N/A	48,136	926	N/A
Socioeconomic/psychosocial factors	4,315	5,331	20	1.74 (1.67–1.81)
Systemic lupus erythematosus and connective tissue disorders	847	1,779	18	2.96 (2.73–3.21)
Cannabis-related disorders	299	752	9	3.54 (3.10–4.05)
Hearing loss	1,446	1,891	9	1.84 (1.72–1.97)
Other specified encounters and counseling	3,576	3,929	7	1.55 (1.48–1.62)
Poisoning by drugs; initial encounter	3,658	4,011	7	1.55 (1.48–1.62)
Diabetes mellitus; Type 1	6,535	6,830	6	1.47 (1.42–1.52)

External cause codes: intent of injury; self-harm	1,487	1,781	6	1.69 (1.58–1.81)
Foodborne intoxications	189	440	5	3.28 (2.77–3.89)
Peritonitis and intra-abdominal abscess	5,890	6,124	5	1.47 (1.41–1.52)
Benign ovarian cyst	720	910	4	1.78 (1.62–1.96)
Sequela of specified infectious disease conditions	59	243	4	N/A
<b>Categories with the largest decrease</b>				
External cause codes: activity codes	108,984	72,261	-706	0.93 (0.93–0.94)
Respiratory signs and symptoms	202,908	161,811	-790	1.12 (1.12–1.13)
External cause codes: place of occurrence of the external cause	135,447	89,534	-883	0.93 (0.92–0.94)
Other specified status	163,695	116,022	-917	1.00 (0.99–1.01)
Superficial injury; contusion; initial encounter	183,675	133,131	-972	1.02 (1.01–1.03)
Viral infection	201,424	140,564	-1,170	0.98 (0.98–0.99)
Nausea and vomiting	203,471	137,633	-1,266	0.95 (0.95–0.96)
Asthma	178,211	110,453	-1,303	0.87 (0.87–0.88)
External cause codes: intent of injury; accidental/unintentional	406,479	330,522	-1,461	1.15 (1.14–1.15)
Abdominal pain and other digestive/abdomen signs and symptoms	263,357	185,168	-1,504	0.99 (0.99–1.00)
Otitis media	139,047	56,806	-1,582	0.58 (0.57–0.58)
Bacterial infections	117,284	33,123	-1,619	0.40 (0.39–0.40)
Fever	230,204	125,245	-2,018	0.77 (0.76–0.77)
Influenza	143,068	8,904	-2,580	0.09 (0.09–0.09)
Other specified upper respiratory infections	439,393	272,326	-3,213	0.87 (0.87–0.88)
<b>Other categories with largest relative change</b>				
Encounter for antineoplastic therapies	177	312	3	2.48 (2.07–2.99)
External cause codes: firearm; initial encounter	296	423	2	2.01 (1.74–2.34)
Encounter for prophylactic measures (excludes immunization)	555	706	3	1.79 (1.60–2.00)
Shock	471	597	2	1.79 (1.58–2.02)
Cornea and external disease	52,926	23,059	-574	0.61 (0.60–0.62)
Sinusitis	12,468	5,385	-136	0.61 (0.59–0.63)
Meningitis	603	243	-7	0.57 (0.49–0.66)
Acute and chronic tonsillitis	17,622	6,714	-210	0.54 (0.52–0.55)
Tobacco-related disorders	1,434	521	-18	0.51 (0.46–0.57)
Pneumonia (except that caused by tuberculosis)	47,549	15,449	-617	0.46 (0.45–0.47)
Lung disease due to external agents	536	129	-8	0.34 (0.28–0.41)

<b>2022 (January 2, 2022–January 29, 2022) vs 2019 (December 30, 2018–January 26, 2019)</b>	<b>2019 ED Visits</b>	<b>2022 ED Visits</b>	<b>Mean weekly change in no. of ED visits</b>	<b>Visit Ratio (95%CI)</b>
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	816	25,887	6,268	43.37 (40.45–46.50)
COVID-19	N/A	19,821	4,955	N/A
Nervous system signs and symptoms	5,411	6,038	157	1.53 (1.47–1.58)
Headache; including migraine	5,247	5,620	93	1.46 (1.41–1.52)
Malaise and fatigue	627	973	87	2.12 (1.92–2.35)
Circulatory signs and symptoms	1,843	2,082	60	1.54 (1.45–1.64)
Socioeconomic/psychosocial factors	236	376	35	2.18 (1.85–2.56)
Systemic lupus erythematosus and connective tissue disorders	73	183	28	N/A
<b>Categories with the largest decrease</b>				
External cause codes: activity codes	5,418	3,381	-509	0.85 (0.82–0.89)
Other specified and unspecified disorders of the ear	4,232	2,104	-532	0.68 (0.65–0.72)
Other general signs and symptoms	4,938	2,546	-598	0.70 (0.67–0.74)
External cause codes: place of occurrence of the external cause	6,733	4,124	-652	0.84 (0.81–0.87)
Other specified status	10,633	7,968	-666	1.02 (1.00–1.05)
Superficial injury; contusion; initial encounter	8,999	6,298	-675	0.96 (0.93–0.99)
Nausea and vomiting	15,595	12,520	-769	1.10 (1.07–1.12)
Fever	17,013	13,756	-814	1.11 (1.08–1.13)



Abdominal pain and other digestive/abdomen signs and symptoms	19,060	15,315	-936	1.10 (1.08–1.12)
External cause codes: intent of injury; accidental/unintentional	19,413	15,607	-952	1.10 (1.08–1.12)
Asthma	10,470	5,982	-1,122	0.78 (0.76–0.81)
Bacterial infections	8,490	2,347	-1,536	0.38 (0.36–0.40)
Otitis media	10,589	3,849	-1,685	0.50 (0.48–0.52)
Other specified upper respiratory infections	32,847	21,207	-2,910	0.88 (0.87–0.90)
Influenza	15,069	2,395	-3,169	0.22 (0.21–0.23)
<b>Other categories with largest relative change</b>				
Fracture of the upper limb; initial encounter	4,558	4,387	-43	1.32 (1.26–1.37)
Epilepsy; convulsions	2,565	2,415	-38	1.29 (1.22–1.36)
Viral infection	14,900	13,758	-286	1.26 (1.23–1.29)
Musculoskeletal pain; not low back pain	6,490	5,986	-126	1.26 (1.22–1.31)
Fungal infections	1,015	488	-132	0.66 (0.59–0.73)
Diseases of middle ear and mastoid (except otitis media)	434	206	-57	0.65 (0.55–0.77)
Parasitic; other specified and unspecified infections	872	376	-124	0.59 (0.52–0.67)
Sinusitis	976	354	-156	0.50 (0.44–0.56)
Acute and chronic tonsillitis	1,220	437	-196	0.49 (0.44–0.55)
Acute bronchitis	2,480	864	-404	0.48 (0.44–0.51)
Pneumonia (except that caused by tuberculosis)	3,019	1,018	-500	0.46 (0.43–0.49)

**Abbreviation:** ED = emergency department; NSSP = National Syndromic Surveillance Program; N/A = not applicable

\* The weekly change in ED visits during the surveillance and comparison periods was calculated as the difference in total counts between the two periods, divided by the number of weeks.

† ED visits were categorized using the Clinical Classifications Software Refined tool from the Healthcare Cost and Utilization Project, which combines individual *International Classification of Diseases, Tenth Revision, Clinical Modification* codes into clinically meaningful groups; visits with multiple codes could be included in multiple categories and multiple codes in the same categories would only be counted once per visit. For a full list of categories and corresponding codes, please visit the HCUP website:

<https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

§ The analysis was conducted by selecting 15 categories with the greatest increases and decreases in mean weekly visits; no filtering on visit count or relative standard error was applied to this section to allow for COVID-19 codes to be in the returned data set. To retain practical relevance, categories were restricted to those with a total difference of  $\geq 100$  visits between surveillance and comparison periods.

¶ Ratio calculated as the proportion of all ED visits in each diagnostic category during the surveillance period, divided by the proportion of all ED visits in that category during the comparison period. Ratios  $>1$  indicate a higher proportion of visits in that category during the surveillance period than during the comparison period; ratios  $<1$  indicate a lower proportion during the surveillance period than during the comparison period.

\*\* This analysis was conducted by identifying 20 categories with the largest relative change. Categories with both, greatest relative change and greatest change in mean weekly visits, were only included in the largest increase or largest decrease sections. Ratios with a confidence interval of N/A either have  $<100$  visits for that category during one of the periods and/or have a relative standard error  $>30$ . To retain practical relevance, categories were restricted to those with an absolute difference of  $\geq 100$  weekly visits between surveillance and comparison periods.

†† 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  $\leq 40$  and average weekly informative discharge diagnosis  $\geq 75\%$  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, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, Guam, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. <https://www.cdc.gov/nssp/index.html>.

**SUPPLEMENTARY TABLE 4. Diagnostic categories<sup>†</sup> with the largest increase or decrease<sup>§</sup> in mean weekly emergency department visits\* and largest relative change\*\* among adolescents aged 12–17 years – National Syndromic Surveillance Program, United States,<sup>††</sup> 2019–2022**

Surveillance period/Diagnostic Categories <sup>†</sup>	2019 ED Visits	2020 ED Visits	Mean weekly change in no. of ED visits	Visit Ratio (95%CI) <sup>¶</sup>
<b>2020 (March 15, 2020–January 2, 2021) vs 2019 (March 10, 2019–December 28, 2019)</b>				
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	15,361	109,271	2,236	11.99 (11.79–12.20)
COVID-19	N/A	18,508	441	N/A
External cause codes: intent of injury; self-harm	24,755	26,029	30	1.77 (1.74–1.80)
External cause codes: firearm; initial encounter	2,068	2,986	22	2.43 (2.30–2.57)
Other specified encounters and counseling	4,149	4,814	16	1.96 (1.88–2.04)
External cause codes: transport; not MVT; initial encounter	11,405	12,047	15	1.78 (1.74–1.83)
External cause codes: pedal cyclist; not MVT; initial encounter	5,164	5,694	13	1.86 (1.79–1.93)
Poisoning by drugs; initial encounter	23,724	24,238	12	1.72 (1.69–1.75)
Calculus of urinary tract	5,767	6,272	12	1.83 (1.77–1.90)
Feeding and eating disorders	2,047	2,424	9	2.00 (1.88–2.12)
Acute and unspecified renal failure	2,472	2,787	8	1.90 (1.80–2.01)
Peritonitis and intra-abdominal abscess	5,846	6,143	7	1.77 (1.71–1.84)
Hallucinogen-related disorders	689	946	6	2.31 (2.10–2.55)
Gastrointestinal and biliary perforation	1,774	1,991	5	1.89 (1.77–2.02)
<b>Categories with the largest decrease</b>				
Nervous system signs and symptoms	94,985	57,593	-890	1.02 (1.01–1.03)
External cause codes: struck by; against; initial encounter	72,450	32,107	-961	0.75 (0.74–0.76)
Asthma	97,058	51,129	-1,094	0.89 (0.88–0.90)
Nausea and vomiting	114,327	68,242	-1,097	1.01 (1.00–1.02)
Other specified status	150,162	102,302	-1,140	1.15 (1.14–1.16)
Headache; including migraine	105,383	54,963	-1,201	0.88 (0.87–0.89)
External cause codes: place of occurrence of the external cause	124,741	68,985	-1,328	0.93 (0.92–0.94)
External cause codes: activity codes	133,010	62,932	-1,669	0.80 (0.79–0.81)
Superficial injury; contusion; initial encounter	162,040	90,064	-1,714	0.94 (0.93–0.94)
Other unspecified injury	158,216	84,166	-1,763	0.90 (0.89–0.90)
Musculoskeletal pain; not low back pain	156,204	79,958	-1,815	0.86 (0.86–0.87)
Abdominal pain and other digestive/abdomen signs and symptoms	215,133	137,553	-1,847	1.08 (1.07–1.09)
Other specified upper respiratory infections	157,916	67,065	-2,163	0.72 (0.71–0.72)
Sprains and strains; initial encounter	176,364	75,740	-2,396	0.72 (0.72–0.73)
External cause codes: intent of injury; accidental/unintentional	343,897	222,992	-2,879	1.09 (1.09–1.10)
<b>Other categories with largest relative change</b>				
Encounter for antineoplastic therapies	160	275	2	2.90 (2.38–3.52)
Bone cancer	257	374	2	2.45 (2.09–2.88)
Menopausal disorders <sup>§§</sup>	304	409	2	2.27 (1.96–2.63)
Cardiac arrest and ventricular fibrillation	521	657	3	2.13 (1.89–2.38)
Opioid-related disorders	1,449	1,643	5	1.91 (1.78–2.05)
Noninfectious gastroenteritis	21,130	8,649	-297	0.69 (0.67–0.71)
Tendon and synovial disorders	3,337	1,347	-47	0.68 (0.64–0.72)
Cornea and external disease	19,219	7,672	-275	0.67 (0.66–0.69)
Traumatic brain injury (TBI); concussion; subsequent encounter	670	267	-10	0.67 (0.58–0.77)
Pneumonia (except that caused by tuberculosis)	15,923	6,100	-234	0.65 (0.63–0.67)
Neurocognitive disorders	4,990	1,854	-75	0.63 (0.59–0.66)
Intestinal infection	9,785	3,375	-153	0.58 (0.56–0.60)
Otitis media	31,302	9,915	-509	0.53 (0.52–0.55)
Sinusitis	13,820	3,436	-247	0.42 (0.40–0.44)
Acute bronchitis	14,436	3,496	-261	0.41 (0.39–0.42)

<b>2021 (January 3, 2021–January 1, 2022) vs 2019 (December 30, 2018–Dec 28, 2019)</b>	<b>2019 ED Visits</b>	<b>2021 ED Visits</b>	<b>Mean weekly change in no. of ED visits</b>	<b>Visit Ratio (95%CI)</b>
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	18,637	232,724	4,117	14.66 (14.44–14.88)
COVID-19	N/A	70,688	1,359	N/A
Suicidal ideation/attempt/intentional self-harm	105,801	131,283	490	1.46 (1.44–1.47)
External cause codes: intent of injury; self-harm	30,967	41,901	210	1.59 (1.57–1.61)
Poisoning by drugs; initial encounter	29,581	38,462	171	1.53 (1.50–1.55)
Symptoms of mental health conditions and substance abuse	39,211	45,092	113	1.35 (1.33–1.37)
Socioeconomic/psychosocial factors	9,754	13,799	78	1.66 (1.62–1.70)
Circulatory signs and symptoms	41,395	45,186	73	1.28 (1.26–1.30)
Abnormal findings without diagnosis	23,677	27,407	72	1.36 (1.34–1.38)
Depressive disorders	104,073	106,644	49	1.20 (1.19–1.21)
Malaise and fatigue	14,990	17,389	46	1.36 (1.33–1.39)
Feeding and eating disorders	2,577	4,697	41	2.14 (2.04–2.24)
Lifestyle/life management factors	13,429	14,995	30	1.31 (1.28–1.34)
Peritonitis and intra-abdominal abscess	7,086	8,183	21	1.36 (1.31–1.40)
<b>Categories with the largest decrease</b>				
Otitis media	39,529	19,935	-377	0.59 (0.58–0.60)
Bacterial infections	46,679	26,149	-395	0.66 (0.65–0.67)
External cause codes: struck by; against; initial encounter	85,317	60,040	-486	0.83 (0.82–0.83)
Musculoskeletal pain; not low back pain	186,158	157,318	-555	0.99 (0.99–1.00)
Headache; including migraine	129,904	99,056	-593	0.90 (0.89–0.90)
Asthma	118,571	84,484	-656	0.84 (0.83–0.84)
Other unspecified injury	187,489	153,236	-659	0.96 (0.95–0.97)
Abdominal pain and other digestive/abdomen signs and symptoms	267,664	229,081	-742	1.00 (1.00–1.01)
Influenza	51,657	6,425	-870	0.15 (0.14–0.15)
External cause codes: place of occurrence of the external cause	148,298	101,505	-900	0.80 (0.80–0.81)
Superficial injury; contusion; initial encounter	191,333	144,475	-901	0.89 (0.88–0.89)
External cause codes: activity codes	157,674	107,461	-966	0.80 (0.79–0.81)
Other specified upper respiratory infections	204,973	148,904	-1,078	0.85 (0.85–0.86)
Sprains and strains; initial encounter	211,208	152,242	-1,134	0.85 (0.84–0.85)
External cause codes: intent of injury; accidental/unintentional	405,788	341,190	-1,242	0.99 (0.98–0.99)
<b>Other categories with largest relative change</b>				
Foodborne intoxications	229	550	6	2.82 (2.42–3.29)
Menopausal disorders	356	701	7	2.31 (2.03–2.63)
Encounter for antineoplastic therapies	190	362	3	2.24 (1.88–2.67)
Suicide attempt/intentional self-harm; subsequent encounter	200	327	2	1.92 (1.61–2.29)
Myocarditis and cardiomyopathy	670	1,095	8	1.92 (1.74–2.11)
Non-Hodgkin lymphoma	267	413	3	1.82 (1.56–2.12)
External cause codes: firearm; initial encounter	2,426	3,488	20	1.69 (1.60–1.78)
Nervous system cancers - brain	360	513	3	1.67 (1.46–1.91)
Cornea and external disease	22,922	12,864	-193	0.66 (0.64–0.67)
Cystic fibrosis	677	370	-6	0.64 (0.57–0.73)
Rheumatoid arthritis and related disease	316	173	-3	0.64 (0.53–0.77)
Diabetes mellitus; due to underlying condition; drug or chemical induced; or other specified type	2,312	1,048	-24	0.53 (0.49–0.57)
Sinusitis	17,774	7,867	-191	0.52 (0.51–0.53)
Meningitis	616	269	-7	0.51 (0.44–0.59)
Acute bronchitis	18,931	8,031	-210	0.50 (0.49–0.51)

2022 (January 2, 2022–January 29, 2022) vs 2019 (December 30, 2018–January 26, 2019)	2019 ED Visits	2022 ED Visits	Mean weekly change in no. of ED visits	Visit Ratio (95%CI)
<b>Categories with the largest increase</b>				
Exposure; encounters; screening or contact with infectious disease	1,136	25,666	6,133	24.37 (22.97–25.86)
COVID-19	N/A	21,521	5,380	N/A
Respiratory signs and symptoms	8,340	11,958	905	1.55 (1.50–1.59)
Viral infection	6,990	9,695	676	1.50 (1.45–1.54)
Suicidal ideation/attempt/intentional self-harm	7,567	9,583	504	1.37 (1.33–1.41)
Fever	4,368	6,059	423	1.50 (1.44–1.56)
Nonspecific chest pain	5,600	6,880	320	1.33 (1.28–1.37)
Nervous system signs and symptoms	7,655	8,846	298	1.25 (1.21–1.29)
Circulatory signs and symptoms	2,845	3,881	259	1.47 (1.40–1.54)
External cause codes: intent of injury; self-harm	2,247	3,076	207	1.48 (1.40–1.56)
Malaise and fatigue	988	1,787	200	1.95 (1.81–2.11)
Symptoms of mental health conditions and substance abuse	2,419	3,205	197	1.43 (1.36–1.51)
Personal/family history of disease	3,520	4,233	178	1.30 (1.24–1.36)
Poisoning by drugs; initial encounter	2,174	2,884	178	1.43 (1.35–1.51)
<b>Categories with the largest decrease</b>				
Noninfectious gastroenteritis	2,191	1,270	-230	0.63 (0.58–0.67)
Asthma	7,126	6,146	-245	0.93 (0.90–0.96)
External cause codes: fall; initial encounter	5,939	4,849	-273	0.88 (0.85–0.91)
Urinary tract infections	4,961	3,871	-273	0.84 (0.81–0.88)
Other unspecified injury	11,061	9,881	-295	0.96 (0.94–0.99)
External cause codes: struck by; against; initial encounter	4,444	3,254	-298	0.79 (0.75–0.83)
Otitis media	2,976	1,495	-370	0.54 (0.51–0.58)
Bacterial infections	3,601	2,059	-386	0.62 (0.58–0.65)
Abdominal pain and other digestive/abdomen signs and symptoms	19,903	17,241	-666	0.93 (0.92–0.95)
Superficial injury; contusion; initial encounter	10,712	7,981	-683	0.80 (0.78–0.83)
External cause codes: activity codes	9,190	6,164	-757	0.72 (0.70–0.75)
Influenza	4,387	1,348	-760	0.33 (0.31–0.35)
External cause codes: place of occurrence of the external cause	8,584	5,492	-773	0.69 (0.67–0.71)
External cause codes: intent of injury; accidental/unintentional	22,608	19,165	-861	0.91 (0.90–0.93)
Sprains and strains; initial encounter	13,191	9,580	-903	0.78 (0.76–0.80)
<b>Other categories with largest relative change</b>				
Encounter for mental health conditions	102	203	25	2.15 (1.69–2.72)
Feeding and eating disorders	194	345	38	1.92 (1.61–2.29)
Other specified encounters and counseling	310	481	43	1.67 (1.45–1.93)
Socioeconomic/psychosocial factors	663	909	62	1.48 (1.34–1.63)
Encounter for administrative purposes	392	226	-42	0.62 (0.53–0.73)
Cornea and external disease	1,433	811	-156	0.61 (0.56–0.67)
Tendon and synovial disorders	237	131	-27	0.60 (0.48–0.74)
Parasitic; other specified and unspecified infections	489	253	-59	0.56 (0.48–0.65)
Acute bronchitis	1,551	652	-225	0.45 (0.41–0.50)
Sinusitis	1,456	604	-213	0.45 (0.41–0.49)

**Abbreviation:** ED = emergency department; NSSP = National Syndromic Surveillance Program; N/A = not applicable

\* The weekly change in ED visits during the surveillance and comparison periods was calculated as the difference in total counts between the two periods, divided by the number of weeks.

† ED visits were categorized using the Clinical Classifications Software Refined tool from the Healthcare Cost and Utilization Project, which combines individual *International Classification of Diseases, Tenth Revision, Clinical Modification* codes into clinically meaningful groups; visits with multiple codes could be included in multiple categories and multiple codes in the same categories would only be counted once per visit. For a full list of categories and corresponding codes, please visit the HCUP website: <https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxccsr.jsp>.

§ The analysis was conducted by selecting 15 categories with the greatest increases and decreases in mean weekly visits; no filtering on visit count or relative standard error was applied to this section to allow for COVID-19 codes to be in the returned data set. To retain practical relevance, categories were restricted to those with a total difference of  $\geq 100$  visits between surveillance and comparison periods.

<sup>†</sup> Ratio calculated as the proportion of all ED visits in each diagnostic category during the surveillance period, divided by the proportion of all ED visits in that category during the comparison period. Ratios >1 indicate a higher proportion of visits in that category during the surveillance period than during the comparison period; ratios <1 indicate a lower proportion during the surveillance period than during the comparison period.

\*\* This analysis was conducted by identifying 20 categories with the largest relative change. Categories with both, greatest relative change and greatest change in mean weekly visits, were only included in the largest increase or largest decrease sections. Ratios with a confidence interval of N/A either have <100 visits for that category during one of the periods and/or have a relative standard error >30. To retain practical relevance, categories were restricted to those with an absolute difference of  $\geq 100$  weekly visits between surveillance and comparison periods.

<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  $\leq 40$  and average weekly informative discharge diagnosis  $\geq 75\%$  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, Hawaii, Maryland, Nebraska, Ohio, Oklahoma, South Dakota, Virginia, Wyoming, Guam, and one facility from Washington were excluded because they do not meet one of the inclusion criteria. <https://www.cdc.gov/nssp/index.html>.

<sup>§§</sup> Menopausal Disorders category includes codes related to hormone replacement therapy, long-term therapy, premenopausal, perimenopausal, and menopausal visits. For a full list of categories and corresponding codes, please visit the HCUP website:

<https://www.hcup-us.ahrq.gov/toolssoftware/ccsr/dxcsr.jsp>.