

Appendix
Injury-Related Emergency Department Visits During the COVID-19 Pandemic
Law et al.

Appendix Table 1. Overall Estimated Injury-Related Emergency Department Visits by Injury Cause, U.S. – January 1, 2018–December 31, 2020

Variable	2018	2019	Difference (2018 and 2019)		2020	Difference (2019 and 2020)	
	N (95% CI)	N (95% CI)	N (%)	(95% CI)	N (95% CI)	N (%)	(95% CI)
All injuries	28,028,762 (23,943,628, 32,113,896)	26,910,333 (22,914,726, 30,905,940)	-1,118,429 (-4.0)	(-6,832,727, 4,595,869)	22,322,771 (18,563,266, 26,082,276)	-4,587,562 (-17.0)	(-10,073,796, 898,672)
Self-harm ^a	495,348 (403,816, 586,880)	493,039 (407,287, 578,791)	-2,309 (-0.5)	(-127,733, 123,115)	471,308 (366,546, 576,070)	-21,731 (-4.4)	(-157,114, 113,652)
Assault ^a	1,625,082 (1,134,376, 2,115,788)	1,594,137 (1,123,843, 2,064,431)	-30,945 (-1.9)	(-710,628, 648,738)	1,461,557 (992,417, 1,930,697)	-132,580 (-8.3)	(-796,861, 531,701)
Falls ^a	8,190,469 (6,820,090, 9,560,848)	8,072,616 (6,630,423, 9,514,809)	-117,853 (-1.4)	(-2,107,290, 1,871,584)	6,684,409 (5,258,215, 8,110,603)	-1,388,207 (-17.2)	(-3,416,495, 640,081)
Motor vehicle ^a	3,432,165 (2,787,482, 4,076,848)	3,300,329 (2,704,303, 3,896,355)	-131,836 (-3.8)	(-1,009,824, 746,152)	2,816,680 (2,240,852, 3,392,508)	-483,649 (-14.7)	(-1,312,398, 345,100)
Poisoning ^a	1,949,020 (1,504,512, 2,393,528)	1,992,157 (1,542,021, 2,442,293)	43,137 (2.2)	(-589,484, 675,758)	1,969,850 (1,517,611, 2,422,089)	-22,307 (-1.1)	(-660,383, 615,769)

Notes: 95% CIs were calculated using the SAS SURVEYMEANS procedure that accounted for the sample weights and complex sample design.

^aSelf-harm included nonfatal injury or poisoning resulting from a deliberate violent act inflicted on oneself with the intent to take one's own life or with the intent to harm oneself; assault included nonfatal injuries where physical force by one or more persons is used with the intent of causing harm, injury, or death to another person, including intentional poisoning by another person and sexual assault; falls included nonfatal injuries received when a person descends abruptly due to the force of gravity and strikes a surface at the same or lower level; motor vehicle included nonfatal injury to a driver or passenger of a motor vehicle caused by a collision, rollover, crash or some other event involving another vehicle, an object, or a pedestrian; and poisoning included nonfatal ingestion, inhalation, absorption through the skin, or injection of so much of a drug, toxin, or other chemical that a harmful effect results (e.g., alcohol intoxication, drug overdose, carbon monoxide exposure).

Data source: National Electronic Injury Surveillance System – All Injuries program.

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Appendix Table 2. Estimated Injury-Related Emergency Department Visits by Sex and Age, U.S. – January 1, 2019–December 31, 2020

Variable	2019 (column %)	(95% CI)	2020 (column %)	(95% CI)	Difference N (%)	(Difference 95% CI)
All injuries						
Sex						
Male	14,590,326 (52.3)	(12,411,729, 16,768,923)	12,440,980 (55.7)	(10,335,979, 14,545,981)	-2,149,346 (-14.8)	(-5,178,753, 880,061)
Female	12,319,385 (47.7)	(10,383,814, 14,254,956)	9,880,551 (44.3)	(8,112,480, 11,648,622)	-2,438,834 (-19.8)	(-5,060,381, 182,713)
Age category						
0–19 years	6,041,740 (22.5)	(5,035,423, 7,048,057)	4,369,310 (19.6)	(3,599,024, 5,139,596)	-1,672,430 (-27.6)	(-2,939,717, -405,143)*
20–35 years	6,743,595 (25.1)	(5,722,351, 7,764,839)	5,809,177 (26.0)	(4,845,073, 6,773,281)	-934,418 (-13.8)	(-2,338,852, 470,016)
36–59 years	7,811,976 (29.0)	(6,556,108, 9,067,844)	6,698,328 (30.0)	(5,510,650, 7,886,006)	-1,113,648 (-14.2)	(-2,842,168, 614,872)
>60 years	6,306,339 (23.4)	(4,854,077, 7,758,601)	5,438,467 (24.4)	(3,996,622, 6,880,312)	-867,872 (-13.8)	(-2,914,328, 1,178,584)
Self-harm^a						
Sex						
Male	199,530 (40.5)	(161,332, 237,728)	191,467 (40.6)	(145,922, 237,012)	-8,063 (-4.0)	(-67,506, 51,380)
Female	293,501 (59.5)	(242,063, 344,939)	279,723 (59.4)	(217,954, 341,492)	-13,778 (-4.7)	(-94,160, 66,604)
Age category						
0–19 years	148,433 (30.1)	(116,556, 180,310)	148,405 (31.5)	(108,811, 187,999)	-28 (0.0)	(-50,859, 50,803)
20–35 years	177,572 (36.0)	(142,353, 212,791)	168,975 (35.9)	(129,508, 208,442)	-8,597 (-4.8)	(-61,493, 44,299)
36–59 years	138,215 (28.0)	(110,256, 166,174)	126,096 (26.8)	(98,905, 153,287)	-12,119 (-8.8)	(-51,121, 26,883)
>60 years	28,818 (5.8)	(23,240, 34,396)	27,785 (5.9)	(18,544, 37,026)	-1,033 (-3.6)	(-11,827, 9,761)
Assault^a						
Sex						
Male	980,391 (61.5)	(638,685, 1,322,097)	918,455 (62.8)	(569,796, 1,267,114)	-61,936 (-6.3)	(-550,123, 426,251)
Female	613,747 (38.5)	(479,448, 748,046)	543,052 (37.2)	(415,905, 670,199)	-70,695 (-11.5)	(-255,635, 114,245)
Age category						
0–19 years	258,572 (16.2)	(203,427, 313,717)	190,260 (13.0)	(148,645, 231,875)	-68,312 (-26.4)	(-137,396, 772)
20–35 years	733,494 (46.0)	(504,256, 962,732)	677,234 (46.3)	(451,491, 902,977)	-56,260 (-7.7)	(-377,990, 265,470)
36–59 years	520,339 (32.6)	(346,113, 694,565)	503,450 (34.4)	(322,411, 684,489)	-16,889 (-3.2)	(-268,145, 234,367)
>60 years	79,838 (5.0)	(55,803, 103,873)	87,814 (6.0)	(59,545, 116,083)	7,976 (10)	(-29,131, 45,083)
Falls^a						
Sex						
Male	3,642,595 (45.1)	(3,045,512, 4,239,678)	3,063,494 (45.8)	(2,450,937, 3,676,051)	-579,101 (-15.9)	(-1,434,516, 276,314)
Female	4,429,971 (54.9)	(3,562,796, 5,297,146)	3,620,864 (54.2)	(2,791,192, 4,450,536)	-809,107 (-18.3)	(-2,009,252, 391,038)
Age category						
0–19 years	1,809,561 (22.4)	(1,461,996, 2,157,126)	1,308,868 (19.6)	(1,046,765, 1,570,971)	-500,693 (-27.7)	(-936,009, -65,377)*
20–35 years	911,389 (11.3)	(772,331, 1,050,447)	733,443 (11.0)	(601,172, 865,714)	-177,946 (-19.5)	(-369,865, 13,973)
36–59 years	1,680,455 (20.8)	(1,424,540, 1,936,370)	1,396,243 (20.9)	(1,146,257, 1,646,229)	-284,212 (-16.9)	(-641,963, 73,539)
>60 years	3,670,593 (45.5)	(2,756,796, 4,584,390)	3,245,317 (48.6)	(2,296,524, 4,194,110)	-425,276 (-11.6)	(-1,742,559, 892,007)
Motor vehicle^a						
Sex						
Male	1,743,225 (52.8)	(1,434,102, 2,052,348)	1,581,040 (56.1)	(1,257,907, 1,904,173)	-162,185 (-9.3)	(-609,367, 284,997)
Female	1,557,066 (47.2)	(1,258,517, 1,855,615)	1,235,527 (43.9)	(969,982, 1,501,072)	-321,539 (-20.7)	(-721,095, 78,017)

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0–19 years	602,324 (18.3)	(503,581, 701,067)	532,217 (18.9)	(432,331, 632,103)	–70,107 (–11.6)	(–210,561, 70,347)
20–35 years	1,131,678 (34.3)	(908,162, 1,355,194)	995,629 (35.4)	(788,430, 1,202,828)	–136,049 (–12.0)	(–440,829, 168,731)
36–59 years	1,026,316 (31.1)	(834,162, 1,218,470)	845,212 (30.0)	(668,065, 1,022,359)	–181,104 (–17.6)	(–442,454, 80,246)
>60 years	539,297 (16.3)	(388,491, 690,103)	442,181 (15.7)	(290,642, 593,720)	–97,116 (–18.0)	(–310,907, 116,675)
Poisoning^a						
Sex						
Male	1,247,400 (62.8)	(928,194, 1,566,606)	1,253,538 (63.7)	(932,845, 1,574,231)	6,138 (0.5)	(–446,340, 458,616)
Female	744,682 (37.4)	(604,605, 884,759)	715,828 (36.3)	(572,828, 858,828)	–28,854 (–3.9)	(–229,031, 171,323)
Age category						
0–19 years	206,911 (10.4)	(154,132, 259,690)	190,211 (9.7)	(135,631, 244,791)	–16,700 (–8.1)	(–92,625, 59,225)
20–35 years	645,363 (32.4)	(509,868, 780,858)	657,852 (33.4)	(525,589, 790,115)	12,489 (1.9)	(–176,859, 201,837)
36–59 years	873,245 (43.9)	(629,925, 1,116,565)	869,039 (44.1)	(623,039, 1,115,039)	–4,206 (–0.5)	(–350,213, 341,801)
>60 years	265,246 (13.3)	(196,507, 333,985)	251,601 (12.8)	(187,744, 315,458)	–13,645 (–5.1)	(–107,468, 80,178)

Notes: 95% CIs were calculated using the SAS SURVEYMEANS procedure that accounted for the sample weights and complex sample design. Boldface indicates statistical significance ($p < 0.05$).

^aSelf-harm included nonfatal injury or poisoning resulting from a deliberate violent act inflicted on oneself with the intent to take one’s own life or with the intent to harm oneself; assault included nonfatal injuries where physical force by one or more persons is used with the intent of causing harm, injury, or death to another person, including intentional poisoning by another person and sexual assault; falls included nonfatal injuries received when a person descends abruptly due to the force of gravity and strikes a surface at the same or lower level; motor vehicle included nonfatal injury to a driver or passenger of a motor vehicle caused by a collision, rollover, crash or some other event involving another vehicle, an object, or a pedestrian; and poisoning included nonfatal ingestion, inhalation, absorption through the skin, or injection of so much of a drug, toxin, or other chemical that a harmful effect results (e.g., alcohol intoxication, drug overdose, carbon monoxide exposure).

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