

## **Supplemental Material**

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**Supplemental Table 1. National Estimates of Emergency Department (ED) Visits for Medication-related Self-harm, by Patient Age and Case Characteristics—United States, 2016-2019<sup>a</sup>**

Case Characteristic	Age 11-19 Years		Age 20-34 Years		Age 35-49 Years		Age 50-64 Years		Age ≥65 Years	
	Annualized National Estimate of ED Visits		Annualized National Estimate of ED Visits		Annualized National Estimate of ED Visits		Annualized National Estimate of ED Visits		Annualized National Estimate of ED Visits	
	No.	% 95% CI	No.	% 95% CI	No.	% 95% CI	No.	% 95% CI	No.	% (95% CI)
<b>Patient Sex</b>										
Female	58,710	79.9 (77.8-82.0)	53,306	62.1 (59.7-64.5)	34,387	59.7 (56.5-63.0)	24,484	60.3 (56.6-63.9)	7,057	62.0 (57.5-66.5)
Male	14,787	20.1 (18.0-22.2)	32,509	37.9 (35.5-40.3)	23,185	40.3 (37.0-43.5)	16,148	39.7 (36.1-43.4)	4,319	38.0 (33.5-42.5)
<b>Discharge Disposition<sup>b</sup></b>										
Admitted or Transferred	52,228	71.1 (64.8-77.4)	63,989	74.6 (69.2-80.0)	43,727	76.0 (70.3-81.6)	32,644	80.3 (75.2-85.5)	9,505	83.6 (76.5-90.6)
Observed	3,627	4.9 (2.1-7.7)	4,344 <sup>c</sup>	5.1 (1.6-8.5) <sup>c</sup>	3,470 <sup>c</sup>	6.0 (1.6-10.5) <sup>c</sup>	1,889 <sup>c</sup>	4.6 (1.8-7.5) <sup>c</sup>	~	~
Not Hospitalized	17,609	24.0 (18.2-29.8)	17,384	20.3 (14.7-25.8)	10,352	18.0 (12.2-23.8)	6,099	15.0 (9.8-20.2)	1,470	12.9 (7.0-18.9)
<b>Number of Implicated Medication Products</b>										
1	50,500	68.7 (67.1-70.3)	51,959	60.5 (57.9-63.2)	32,264	56.0 (52.7-59.4)	23,984	59.0 (56.2-61.9)	6,432	56.5 (51.7-61.4)
2	14,404	19.6 (18.3-20.9)	20,026	23.3 (22.0-24.6)	14,947	26.0 (23.5-28.4)	10,017	24.7 (22.4-26.9)	3,348	29.4 (23.8-35.1)
3	5,077	6.9 (5.9-8.0)	8,979	10.5 (9.1-11.9)	5,963	10.4 (8.9-11.8)	3,981	9.8 (8.3-11.3)	1,014	8.9 (5.9-11.9)
4 or more	3,518	4.8 (3.8-5.8)	4,851	5.7 (4.8-6.5)	4,398	7.6 (6.5-8.8)	2,650	6.5 (5.1-7.9)	582	5.1 (2.6-7.7)
<b>Concurrent Nonpharmaceutical Substances Documented</b>										
Illicit substances or alcohol	14,130	19.2 (16.4-22.0)	40,019	46.6 (42.6-50.7)	31,543	54.8 (51.1-58.5)	19,751	48.6 (45.0-52.2)	2,867	25.2 (22.9-27.6)
Illicit substances	11,113	5.1 (12.8-17.5)	25,879	30.2 (26.1-34.2)	16,598	28.8 (24.4-33.3)	8,882	21.9 (18.2-25.5)	1,157	10.2 (7.7-12.7)
Alcohol	4,119	5.6 (4.3-6.9)	19,301	22.5 (20.7-24.3)	19,857	34.5 (32.2-36.7)	13,987	34.4 (31.3-37.5)	2,020	17.8 (15.1-20.4)
Illicit substances and Alcohol	1,101	1.5 (1.0-2.0)	5,160	6.0 (5.0-7.1)	4,912	8.5 (6.8-10.2)	3,118	7.7 (6.2-9.1)	310	2.7 (1.3-4.1)
No concurrent substances	59,368	80.8 (78.0-83.6)	45,796	53.4 (49.3-57.4)	26,029	45.2 (41.5-48.9)	20,881	51.4 (47.8-55.0)	8,509	74.8 (72.4-77.1)
<b>Total</b>	<b>73,498</b>	<b>100.0</b>	<b>85,815</b>	<b>100.0</b>	<b>57,571</b>	<b>100.0</b>	<b>40,632</b>	<b>100.0</b>	<b>11,376</b>	<b>100.0</b>

<sup>a</sup> National estimates are from the National Electronic Injury Surveillance System—Cooperative Adverse Drug Event Surveillance project, CDC. Estimates based on <20 cases or total estimates <1,200 are considered statistically unstable and are not shown (-). Not shown: 51 surveillance cases involving patients aged <11 years, 1 case of 11–19-year-old patient with sex not documented, and 2 cases with age not documented.

<sup>b</sup> 'Admitted or Transferred' includes inpatient admissions and transfers to other hospitals. 'Observed' includes observation status admissions. 'Not Hospitalized' includes treated-and-released and left against medical advice/without being seen. Disposition not documented for 9 cases.

<sup>c</sup> Coefficient of variation >30%.

CI = confidence interval.

**Supplemental Table 2. Estimated Proportions of Emergency Department (ED) Visits for Medication-related Self-harm, by Medication Category, Patient Age, and Patient Sex—United States, 2016-2019<sup>a</sup>**

Medication Category	Annualized National Estimates of ED Visits for Medication-related Self-Harm <sup>b</sup>					
	<u>11-19 Years</u>	<u>20-34 Years</u>	<u>35-49 Years</u>	<u>50-64 Years</u>	<u>≥65 Years</u>	<u>All Ages</u>
	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)	% (95% CI)
Anticonvulsants	4.4 (3.4-5.3)	6.2 (5.4-7.0)	5.9 (4.7-7.1)	3.8 (2.9-4.8)	3.1 (1.4-4.8)	5.1 (4.5-5.8)
Female	4.6 (3.7-5.6)	5.9 (4.8-7.0)	5.6 (4.2-7.0)	3.6 (2.4-4.7)	~	5.0 (4.4-5.6)
Male	3.4 (2.0-4.7)	6.6 (5.1-8.2)	6.4 (4.4-8.3)	4.3 (2.5-6.0)	~	5.5 (4.5-6.5)
Antidepressants	24.6 (23.1-26.2)	23.9 (21.7-26.2)	22.9 (21.0-24.8)	21.0 (19.4-22.6)	19.3 (15.4-23.2)	23.2 (21.9-24.6)
Female	25.4 (23.7-27.0)	24.2 (21.8-26.5)	23.9 (21.6-26.1)	20.5 (18.0-22.9)	22.9 (17.5-28.3)	23.9 (22.4-25.4)
Male	21.8 (19.0-24.6)	23.5 (20.5-26.5)	21.4 (18.3-24.6)	21.8 (18.9-24.7)	13.4 (9.4-17.4)	21.9 (20.1-23.7)
Antihypertensives	5.3 (4.4-6.3)	4.8 (4.1-5.5)	7.5 (6.1-8.8)	9.1 (7.5-10.7)	10.6 (7.6-13.5)	6.4 (5.7-7.1)
Female	4.7 (3.6-5.8)	4.9 (3.9-5.9)	7.2 (5.5-8.8)	9.2 (7.5-11.0)	10.4 (7.7-13.1)	6.1 (5.3-6.8)
Male	7.8 (5.9-9.8)	4.7 (3.6-5.7)	7.9 (5.9-10.0)	8.9 (6.1-11.6)	10.8 (4.7-16.9)	7.0 (6.0-8.1)
Antipsychotics	7.9 (6.8-8.9)	13.7 (12.7-14.7)	14.3 (12.3-16.2)	12.5 (10.3-14.7)	7.3 (5.3-9.3)	11.8 (10.8-12.7)
Female	7.2 (6.2-8.2)	12.8 (11.2-14.4)	12.8 (10.5-15.1)	11.4 (8.2-14.6)	8.9 (5.8-12.0)	10.6 (9.6-11.6)
Male	10.7 (8.3-13.1)	15.2 (13.6-16.8)	16.5 (13.9-19.1)	14.2 (11.7-16.6)	4.7 (2.9-6.5)	14.1 (12.9-15.4)
Benzodiazepines	9.4 (7.9-10.9)	24.0 (21.0-27.1)	32.3 (28.7-36.0)	35.4 (29.9-40.9)	40.2 (33.7-46.7)	24.2 (21.3-27.0)
Female	7.9 (6.3-9.5)	24.9 (21.8-28.0)	33.8 (29.5-38.0)	39.2 (33.5-44.9)	42.5 (36.0-49.0)	23.6 (20.7-26.6)
Male	15.4 (12.7-18.1)	22.7 (19.0-26.4)	30.3 (25.6-34.9)	29.6 (23.9-35.4)	36.5 (27.7-45.2)	25.3 (22.0-28.5)
Cough/Cold Products or Antihistamines	15.9 (14.8-17.0)	14.6 (13.1-16.1)	9.7 (7.7-11.7)	7.9 (6.4-9.3)	3.1 (1.2-5.0)	12.4 (11.7-13.1)
Female	15.9 (14.6-17.1)	14.5 (12.7-16.4)	11.3 (8.8-13.8)	8.3 (6.4-10.1)	~	13.0 (12.1-14.0)
Male	16.0 (13.6-18.3)	14.7 (11.7-17.7)	7.3 (5.3-9.3)	7.2 (5.2-9.2)	~	11.2 (9.9-12.4)
Gabapentinoids	1.3 (0.8-1.7)	4.9 (3.9-6.0)	7.3 (5.8-8.9)	6.3 (4.7-7.9)	4.4 (2.9-6.0)	4.6 (3.9-5.4)
Female	1.1 (0.6-1.6)	4.8 (3.9-5.8)	7.2 (5.5-8.9)	6.3 (4.5-8.0)	~	4.2 (3.5-4.9)
Male	~	5.1 (3.3-7.0)	7.6 (5.5-9.6)	6.4 (4.4-8.3)	~	5.4 (4.3-6.6)
Hypnotics (non-benzodiazepine)	2.1 (1.6-2.6)	5.1 (4.2-6.0)	8.3 (7.4-9.2)	8.8 (7.2-10.3)	9.9 (5.5-14.4)	5.7 (5.2-6.3)
Female	2.1 (1.5-2.7)	5.3 (4.2-6.4)	10.2 (8.9-11.5)	8.4 (6.5-10.3)	9.3 (5.5-13.1)	5.8 (5.1-6.4)
Male	~	4.7 (3.3-6.2)	5.5 (4.2-6.7)	9.3 (6.9-11.7)	~	5.6 (4.7-6.5)
Hypoglycemics	1.7 (1.1-2.3)	1.0 (0.7-1.3)	1.9 (1.3-2.5)	2.5 (1.7-3.3)	4.7 (2.3-7.1)	1.8 (1.5-2.1)
Female	1.7 (1.0-2.4)	1.1 (0.7-1.5)	1.8 (0.8-2.8)	2.2 (1.1-3.3)	~	1.7 (1.2-2.2)
Male	~	0.9 (0.5-1.4)	2.0 (1.2-2.9)	3.0 (1.6-4.4)	~	1.9 (1.5-2.4)
Muscle Relaxants	1.4 (1.0-1.7)	3.8 (3.1-4.6)	5.8 (4.4-7.3)	4.8 (3.6-6.1)	~	3.6 (3.2-4.1)
Female	1.3 (0.9-1.7)	4.0 (3.2-4.8)	5.7 (4.2-7.1)	4.8 (3.4-6.2)	~	3.4 (3.0-3.9)
Male	~	3.5 (2.5-4.5)	6.0 (4.1-8.0)	4.9 (3.1-6.7)	~	4.1 (3.5-4.7)

Nonopioid Analgesics	39.1 (37.3-40.8)	24.7 (22.6-26.7)	15.6 (14.0-17.3)	13.6 (11.3-15.9)	10.3 (6.7-14.0)	24.4 (22.9-25.9)
Female	41.6 (39.8-43.4)	27.4 (24.7-30.0)	16.4 (14.0-18.8)	14.8 (12.1-17.4)	11.2 (6.6-15.9)	27.6 (25.9-29.3)
Male	28.8 (24.1-33.6)	20.3 (17.2-23.4)	14.5 (11.8-17.3)	11.8 (8.2-15.4)	8.8 (4.5-13.1)	18.2 (16.4-19.9)
Prescription Opioids	5.0 (4.3-5.7)	10.7 (9.5-11.9)	14.2 (12.5-16.0)	16.9 (14.8-18.9)	22.6 (16.0-29.3)	11.3 (10.5-12.2)
Female	4.7 (4.0-5.4)	10.4 (9.1-11.6)	13.9 (11.9-15.9)	16.5 (13.7-19.3)	21.6 (14.2-29.1)	10.4 (9.5-11.4)
Male	6.3 (4.6-8.0)	11.3 (9.1-13.5)	14.7 (12.3-17.2)	17.4 (15.3-19.6)	24.3 (18.3-30.3)	13.1 (12.0-14.2)
Stimulants (amphetamine)	3.1 (2.6-3.6)	1.9 (1.2-2.5)	1.7 (1.1-2.4)	~	~	1.9 (1.6-2.3)
Female	2.4 (1.9-3.0)	1.8 (1.0-2.7)	1.8 (1.0-2.6)	~	~	1.8 (1.5-2.2)
Male	5.6 (3.4-7.8)	1.9 (1.0-2.7)	1.7 (0.6-2.7)	~	~	2.2 (1.5-2.9)
Vitamins/Minerals or Herbals/Complementary Nutritional	4.6 (3.8-5.4)	2.1 (1.7-2.5)	1.4 (0.8-2.0)	1.4 (0.6-2.2)	~	2.5 (2.1-2.9)
Female	4.3 (3.5-5.0)	2.2 (1.6-2.7)	1.6 (0.8-2.4)	1.6 (0.7-2.4)	~	2.6 (2.2-3.0)
Male	6.2 (4.4-7.9)	2.0 (1.2-2.8)	~	~	~	2.3 (1.7-2.8)
Other Medications	11.2 (9.8-12.6)	8.8 (7.6-10.0)	8.6 (6.7-10.5)	8.6 (7.0-10.2)	12.2 (7.5-16.8)	9.5 (8.5-10.6)
Female	11.4 (10.0-12.9)	9.3 (8.1-10.5)	7.8 (5.9-9.8)	8.5 (6.8-10.3)	11.1 (6.5-15.7)	9.7 (8.6-10.8)
Male	10.1 (7.4-12.8)	8.0 (6.4-9.6)	9.7 (7.3-12.2)	8.7 (6.2-11.2)	13.8 (7.4-20.2)	9.2 (7.9-10.5)
Selected combinations:						
Antipsychotics or Antidepressants	29.6 (28.0-31.3)	33.2 (31.0-35.3)	32.9 (30.5-35.2)	30.0 (27.7-32.4)	24.8 (20.9-28.8)	31.3 (29.8-32.8)
Female	29.9 (28.2-31.6)	32.8 (30.3-35.3)	32.8 (30.1-35.6)	29.5 (25.6-33.4)	29.3 (24.1-34.5)	31.2 (29.6-32.8)
Male	28.5 (25.3-31.7)	33.8 (31.2-36.4)	33.0 (29.8-36.2)	30.8 (27.7-33.9)	17.5 (12.9-22.2)	31.4 (29.7-33.1)
Antipsychotics, Antidepressants, or Hypnotics	37.9 (35.9-40.0)	54.4 (51.7-57.2)	61.1 (58.4-63.7)	62.7 (59.6-65.9)	62.0 (56.5-67.4)	52.9 (50.8-55.0)
Female	36.7 (34.5-38.8)	54.1 (50.9-57.3)	62.2 (59.5-64.9)	64.7 (61.5-67.9)	66.0 (60.1-71.9)	51.8 (49.6-54.0)
Male	42.9 (39.5-46.4)	55.0 (52.0-58.1)	59.4 (55.2-63.7)	59.7 (55.0-64.4)	55.3 (46.6-64.0)	55.0 (52.6-57.4)
Benzodiazepines or Prescription Opioids	13.6 (11.7-15.4)	31.5 (28.7-34.3)	41.7 (37.8-45.7)	46.0 (40.8-51.2)	54.9 (47.8-62.1)	31.9 (29.2-34.7)
Female	12.1 (10.2-14.0)	32.1 (29.1-35.1)	42.9 (38.5-47.4)	48.7 (43.3-54.1)	55.0 (47.6-62.5)	30.7 (27.8-33.7)
Male	19.5 (16.2-22.8)	30.5 (26.9-34.2)	40.0 (35.4-44.6)	41.9 (36.2-47.6)	54.8 (45.8-63.7)	34.3 (31.4-37.2)
Nonopioid Analgesics, Cough/Cold or Antihistamines, or Vitamins/Minerals	54.4 (52.7-56.2)	38.0 (36.1-39.9)	25.4 (23.3-27.5)	21.1 (18.4-23.7)	14.1 (9.2-18.9)	36.2 (34.5-37.9)
Female	56.1 (54.3-57.9)	40.3 (37.3-43.3)	28.0 (26.0-29.9)	22.6 (19.9-25.4)	14.7 (8.7-20.6)	39.7 (37.7-41.7)
Male	47.7 (43.2-52.1)	34.2 (31.1-37.4)	21.5 (17.9-25.2)	18.7 (14.6-22.8)	13.1 (7.5-18.6)	29.4 (27.6-31.3)

<sup>a</sup> National estimates are from the National Electronic Injury Surveillance System—Cooperative Adverse Drug Event Surveillance project, CDC. Estimates based on <20 cases or total estimates <1,200 are considered statistically unstable and are not shown (~).

<sup>b</sup> Implicated alone or in combination with other medications, alcohol, or illicit substances. Not shown: 51 cases of self-harm among patients aged <11 years (although included in 'All Ages' column), 2 cases of self-harm among males with age not documented, and 1 case of self-harm among a patient aged 11-19 years with sex not documented.

CI = confidence interval.

**Supplemental Table 3. Implicated Medication Categories in Emergency Department (ED) Visits for Medication-related Self-harm—United States, 2016-2019<sup>a</sup>**

Medication Category	Annualized National Estimates of ED Visits for Medication-related Self-Harm							
	ED Visits Involving <u>A Single Medication Category Without Involvement of Multiple Medication Categories, Alcohol, or Illicit Substances<sup>b</sup></u>		ED Visits Involving <u>Multiple Medication Categories Alone<sup>c</sup></u>		ED Visits Involving <u>Alcohol, Without Illicit Substances<sup>d</sup></u>		ED Visits Involving <u>Illicit Substances<sup>e</sup></u>	
	No.	Category % (95% CI)	No.	Category % (95% CI)	No.	Category % (95% CI)	No.	Category % (95% CI)
Nonopioid Analgesics	29,136	44.4 (41.4-47.3)	16,188	24.6 (22.7-26.6)	8,023	12.2 (10.9-13.5)	12,333	18.8 (15.1-22.4)
Benzodiazepines	11,828	18.2 (16.0-20.4)	18,170	27.9 (25.6-30.2)	13,550	20.8 (19.1-22.5)	21,579	33.1 (29.2-37.0)
Antidepressants	16,627	26.6 (23.4-29.8)	21,517	34.4 (32.3-36.4)	9,971	15.9 (14.3-17.6)	14,444	23.1 (19.3-26.8)
Cough/Cold Products or Antihistamines	10,255	30.7 (27.9-33.6)	11,164	33.4 (30.8-36.1)	4,823	14.4 (12.5-16.4)	7,137	21.4 (17.7-25.1)
Antipsychotics	6,810	21.5 (18.7-24.2)	12,162	38.4 (34.9-41.8)	4,326	13.6 (11.6-15.7)	8,402	26.5 (22.4-30.6)
Prescription Opioids	5,947	19.5 (15.5-23.5)	10,244	33.6 (29.6-37.5)	5,910	19.4 (16.5-22.2)	8,409	27.6 (22.3-32.8)
Antihypertensives	3,921	22.7 (18.1-27.4)	6,873	39.9 (36.1-43.6)	3,177	18.4 (15.8-21.0)	3,266	18.9 (14.8-23.1)
Hypnotics (non-benzodiazepine)	2,833	18.4 (15.1-21.6)	5,408	35.1 (31.0-39.2)	3,110	20.2 (17.0-23.4)	4,061	26.3 (21.3-31.4)
Anticonvulsants	2,953	21.3 (16.4-26.3)	5,640	40.8 (35.7-45.8)	2,120	15.3 (11.7-19.0)	3,127	22.6 (17.9-27.3)
Gabapentinoids	1,617	13.0 (9.6-16.3)	4,567	36.7 (30.9-42.4)	2,512	20.2 (16.4-23.9)	3,759	30.2 (24.1-36.3)
Muscle Relaxants	1,857	18.9 (14.4-23.5)	3,495	35.6 (30.4-40.9)	1,853	18.9 (15.3-22.5)	2,608	26.6 (21.7-31.5)
Vitamins/Minerals or Herbals/ Complementary Nutritionals	2,055	30.3 (24.7-36.0)	3,024	44.6 (39.6-49.6)	808	11.9 (7.9-16.0)	888	13.1 (8.4-17.8)
Stimulants (amphetamine)	1,314	25.2 (18.9-31.5)	1,849	35.5 (29.7-41.2)	733	14.0 (8.0-20.1)	1,320	25.3 (18.3-32.3)
Hypoglycemics	2,223	46.2 (39.3-53.2)	1,557	32.4 (25.2-39.6)	478	9.9 (6.2-13.7)	551	11.4 (5.3-17.6)
Other Medications	6,503	25.4 (22.2-28.6)	10,202	39.8 (35.8-43.8)	3,762	14.7 (12.7-16.7)	5,167	20.2 (15.5-24.8)

<sup>a</sup> National estimates are from the National Electronic Injury Surveillance System—Cooperative Adverse Drug Event Surveillance project, CDC.

<sup>b</sup> Implicated alone, without other categories of medications, and without alcohol or illicit substances.

<sup>c</sup> Implicated with multiple categories of medications, and without alcohol or illicit substances.

<sup>d</sup> Implicated with alcohol, with or without other categories of medications, but without illicit substances.

<sup>e</sup> Implicated with illicit substances, with or without other categories of medications and with or without alcohol.

CI = confidence interval.

**Supplemental Table 4. Involvement of a Single Medication Category, Multiple Medication Categories, Alcohol, and Illicit Substances in Emergency Department (ED) Visits for Medication-related Self-harm by Patient Age—United States, 2016-2019<sup>a</sup>**

Patient Age, y	Annualized National Estimates of ED Visits for Medication-related Self-Harm							
	<u>ED Visits Involving A Single Medication Category Without Involvement of Multiple Medication Categories, Alcohol, or Illicit Substances<sup>b</sup></u>		<u>ED Visits Involving Multiple Medication Categories Alone<sup>c</sup></u>		<u>ED Visits Involving Alcohol, Without Illicit Substances<sup>d</sup></u>		<u>ED Visits Involving Illicit Substances<sup>e</sup></u>	
	No.	Age Group % (95% CI)	No.	Age Group % (95% CI)	No.	Age Group % (95% CI)	No.	Age Group % (95% CI)
11-19	43,313	58.9 (56.4-61.4)	16,055	21.8 (20.4-23.3)	3,017	4.1 (3.1-5.1)	11,113	15.1 (12.8-17.5)
20-34	29,272	34.1 (30.6-37.6)	16,524	19.3 (17.3-21.2)	14,140	16.5 (15.1-17.8)	25,879	30.2 (26.1-34.2)
35-49	15,417	26.8 (23.7-29.9)	10,612	18.4 (16.6-20.3)	14,945	26.0 (23.7-28.3)	16,598	28.8 (24.4-33.3)
50-64	12,510	30.8 (28.5-33.1)	8,371	20.6 (17.8-23.4)	10,869	26.8 (24.0-29.5)	8,882	21.9 (18.2-25.5)
≥65	5,145	45.2 (40.4-50.1)	3,364	29.6 (25.3-33.9)	1,710	15.0 (12.6-17.5)	1,157	10.2 (7.7-12.7)

<sup>a</sup> National estimates are from the National Electronic Injury Surveillance System—Cooperative Adverse Drug Event Surveillance project, CDC. Not shown: 51 cases of self-harm among patients aged <11 years, and 2 cases of self-harm among males with age not documented.

<sup>b</sup> Implicated alone, without other categories of medications, and without alcohol or illicit substances.

<sup>c</sup> Implicated with other categories of medications, and without alcohol or illicit substances.

<sup>d</sup> Implicated with alcohol, with or without other categories of medications, but without illicit substances.

<sup>e</sup> Implicated with illicit substances, with or without other categories of medications and with or without alcohol.

CI = confidence interval.

**Supplemental Table 5. Characteristics and Implicated Medication Categories in Emergency Department (ED) Visits for Medication-related Self-harm by Documentation of Serious Clinical Manifestations or Interventions—United States, 2016-2019<sup>a</sup>**

Characteristic	Annualized National Estimates of ED Visits for Medication-related Self-Harm with <u>Unresponsiveness/Cardiorespiratory Failure/Mechanical Ventilation, Decontamination, or Reversal Agents</u>	
	Documented [60,855 visits annually] % (95% CI)	Not Documented [208,344 visits annually] % (95% CI)
<b>Patient Sex</b>		
Female	66.7 (63.6-69.8)	66.0 (64.0-68.1)
Male	33.3 (30.2-36.4)	34.0 (31.9-36.0)
<b>Patient Age, y<sup>b</sup></b>		
11-19	23.3 (19.0-27.5)	28.5 (24.9-32.0)
20-34	30.6 (27.9-33.4)	32.2 (30.4-34.1)
35-49	22.4 (20.2-24.7)	21.1 (19.2-23.0)
50-64	17.7 (15.6-19.7)	14.3 (13.1-15.6)
≥65	5.9 (3.3-8.5)	3.7 (2.9-4.6)
<b>Discharge Disposition</b>		
Admitted or Transferred	85.5 (81.4-89.5)	72.1 (66.4-77.8)
Observed	4.7 (1.5-7.9)	5.2 (1.8-8.6)
Not Hospitalized	9.8 (6.1-13.5)	22.6 (17.1-28.1)
<b>Concurrent Nonpharmaceutical Substances Documented</b>		
Illicit Substances or Alcohol	41.9 (38.1-45.6)	39.8 (36.1-43.4)
Illicit Substances	24.7 (21.0-28.4)	23.3 (19.8-26.9)
Alcohol	22.5 (20.4-24.6)	21.9 (20.1-23.6)
<b>Implicated Medication Category<sup>c</sup></b>		
Benzodiazepines	29.0 (26.1-31.9)	23.1 (20.6-25.5)
Prescription Opioids	28.1 (23.5-32.6)	9.5 (8.6-10.4)
Antidepressants	20.8 (18.7-23.0)	23.9 (22.4-25.5)
Cough/Cold Products or Antihistamines	17.6 (13.5-21.7)	13.0 (12.2-13.8)
Nonopioid Analgesics	11.7 (10.5-13.0)	23.0 (21.4-24.7)
Antipsychotics	10.2 (9.0-11.4)	11.8 (10.8-12.8)
Muscle Relaxants	8.1 (6.3-9.9)	3.4 (2.9-3.9)
Gabapentinoids	7.6 (5.9-9.3)	4.7 (3.9-5.5)
Hypnotics (non-benzodiazepine)	5.9 (5.1-6.7)	5.7 (5.1-6.2)
Stimulants (amphetamine)	5.7 (4.1-7.3)	2.0 (1.6-2.4)
Anticonvulsants	4.4 (3.6-5.2)	5.0 (4.5-5.5)
Antihypertensives	4.4 (3.2-5.6)	6.0 (5.4-6.7)
Hypoglycemics	2.0 (1.4-2.6)	1.7 (1.4-2.0)
Vitamins/Minerals or Herbals/Complementary Nutritionals	1.7 (1.1-2.3)	2.8 (2.4-3.3)
Other Medications	1.4 (0.9-1.9)	9.9 (9.0-10.9)

<sup>a</sup> Case counts and estimates are from the National Electronic Injury Surveillance System—Cooperative Adverse Drug Event Surveillance project, CDC.

<sup>b</sup> Not shown: 51 cases of self-harm among patients aged <11 years, and 2 cases of medication-related self-harm among males with age not documented.

<sup>c</sup> Medication categories were implicated alone or in combination with other medications, alcohol, or illicit substances.

CI = confidence interval.