

**Table 1. Number, crude and age-adjusted rates of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by Health and Human Services region: United States, Provisional analysis, 2018-2020**

Public Health Region <sup>2</sup>		Fentanyl <sup>1</sup>								
		2018			2019			2020		
		Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>
U.S. Total		30,230	9.25	9.59	35,449	10.80	11.17	55,653	16.89	17.54
Region 1	CT, ME, MA, NH, RI, VT	3,415	23.01	24.30	3,699	24.91	26.08	4,124	27.78	28.97
Region 2	NJ, NY, and NYC	4,429	15.58	15.81	4,534	15.99	16.07	5,998	21.26	21.41
Region 3	DE, DC, MD, PA, VA, WV	5,964	19.34	19.88	6,562	21.24	21.83	9,096	29.42	30.30
Region 4	AL, FL, GA, KY, MS, NC, SC, TN	5,684	8.56	9.17	7,265	10.85	11.60	13,250	19.63	21.02
Region 5	IL, IN, MI, MN, OH, WI	7,189	13.69	14.43	8,057	15.33	16.13	11,637	22.17	23.42
Region 6	AR, LA, NM, OK, TX	690	1.63	1.67	966	2.26	2.34	2,334	5.41	5.60
Region 7	IA, KS, MO, NE	974	6.90	7.51	1,056	7.47	8.07	1,602	11.31	12.19
Region 8	CO, MT, ND, SD, UT, WY	195	1.61	1.61	356	2.90	2.93	802	6.48	6.61
Region 9	AZ, CA, HI, NV	1,369	2.68	2.71	2,507	4.89	4.94	5,806	11.31	11.44
Region 10	AK, ID, OR, WA	321	2.26	2.31	447	3.11	3.17	1,004	6.93	7.20

  

Public Health Region <sup>2</sup>		Hydrocodone								
		2018			2019			2020		
		Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>
U.S. Total		2,516	0.77	0.74	2,279	0.69	0.66	2,553	0.77	0.74
Region 1	CT, ME, MA, NH, RI, VT	56	0.38	0.34	47	0.32	0.29	44	0.30	0.27
Region 2	NJ, NY, and NYC	92	0.32	0.30	94	0.33	0.30	113	0.40	0.39
Region 3	DE, DC, MD, PA, VA, WV	190	0.62	0.59	108	0.35	0.33	163	0.53	0.52
Region 4	AL, FL, GA, KY, MS, NC, SC, TN	602	0.91	0.89	581	0.87	0.82	642	0.95	0.92
Region 5	IL, IN, MI, MN, OH, WI	531	1.01	0.97	465	0.88	0.88	513	0.98	0.96
Region 6	AR, LA, NM, OK, TX	367	0.87	0.86	336	0.79	0.77	415	0.96	0.95
Region 7	IA, KS, MO, NE	108	0.77	0.79	113	0.80	0.77	97	0.68	0.71
Region 8	CO, MT, ND, SD, UT, WY	106	0.87	0.85	102	0.83	0.81	80	0.65	0.61
Region 9	AZ, CA, HI, NV	356	0.70	0.65	332	0.65	0.60	382	0.74	0.69
Region 10	AK, ID, OR, WA	108	0.76	0.73	101	0.70	0.62	104	0.72	0.67

  

Public Health Region <sup>2</sup>		Hydromorphone								
		2018			2019			2020		
		Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>
U.S. Total		681	0.21	0.20	569	0.17	0.17	584	0.18	0.17
Region 1	CT, ME, MA, NH, RI, VT	42	0.28	0.25	33	0.22	0.21	40	0.27	0.24
Region 2	NJ, NY, and NYC	57	0.20	0.19	41	0.14	0.13	56	0.20	0.18
Region 3	DE, DC, MD, PA, VA, WV	75	0.24	0.24	49	0.16	0.15	70	0.23	0.23
Region 4	AL, FL, GA, KY, MS, NC, SC, TN	210	0.32	0.31	163	0.24	0.24	166	0.25	0.24
Region 5	IL, IN, MI, MN, OH, WI	81	0.15	0.15	73	0.14	0.13	69	0.13	0.13
Region 6	AR, LA, NM, OK, TX	56	0.13	0.13	42	0.10	0.10	37	0.09	0.08
Region 7	IA, KS, MO, NE	17	*	*	18	*	*	16	*	*
Region 8	CO, MT, ND, SD, UT, WY	38	0.31	0.31	32	0.26	0.26	33	0.27	0.26
Region 9	AZ, CA, HI, NV	79	0.15	0.14	94	0.18	0.17	64	0.12	0.12
Region 10	AK, ID, OR, WA	26	0.18	0.17	24	0.17	0.16	33	0.23	0.22

Public Health Region <sup>2</sup>		Oxycodone								
		2018			2019			2020		
		Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>
U.S. Total		5,070	1.55	1.52	4,629	1.41	1.38	5,111	1.55	1.53
Region 1	CT, ME, MA, NH, RI, VT	284	1.91	1.84	326	2.20	2.05	305	2.05	1.95
Region 2	NJ, NY, and NYC	543	1.91	1.86	483	1.70	1.62	558	1.98	1.94
Region 3	DE, DC, MD, PA, VA, WV	616	2.00	1.94	563	1.82	1.79	630	2.04	1.98
Region 4	AL, FL, GA, KY, MS, NC, SC, TN	1,389	2.09	2.05	1,330	1.99	1.96	1,461	2.16	2.17
Region 5	IL, IN, MI, MN, OH, WI	638	1.22	1.23	558	1.06	1.04	613	1.17	1.17
Region 6	AR, LA, NM, OK, TX	327	0.77	0.77	303	0.71	0.70	361	0.84	0.84
Region 7	IA, KS, MO, NE	190	1.35	1.38	165	1.17	1.20	158	1.12	1.14
Region 8	CO, MT, ND, SD, UT, WY	319	2.63	2.65	274	2.23	2.27	300	2.42	2.44
Region 9	AZ, CA, HI, NV	575	1.13	1.07	452	0.88	0.84	532	1.04	1.00
Region 10	AK, ID, OR, WA	189	1.33	1.27	175	1.22	1.14	193	1.33	1.26

Public Health Region <sup>2</sup>		Oxymorphone								
		2018			2019			2020		
		Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>	Number	Crude rate	Age-adjusted rate <sup>3</sup>
U.S. Total		686	0.21	0.21	576	0.18	0.17	563	0.17	0.17
Region 1	CT, ME, MA, NH, RI, VT	31	0.21	0.19	33	0.22	0.21	22	0.15	0.14
Region 2	NJ, NY, and NYC	60	0.21	0.20	45	0.16	0.16	90	0.32	0.30
Region 3	DE, DC, MD, PA, VA, WV	111	0.36	0.36	92	0.30	0.29	89	0.29	0.28
Region 4	AL, FL, GA, KY, MS, NC, SC, TN	250	0.38	0.38	219	0.33	0.32	174	0.26	0.25
Region 5	IL, IN, MI, MN, OH, WI	64	0.12	0.12	55	0.10	0.10	51	0.10	0.10
Region 6	AR, LA, NM, OK, TX	43	0.10	0.10	33	0.08	0.08	24	0.06	0.06
Region 7	IA, KS, MO, NE	14	*	*	*	*	*	*	*	*
Region 8	CO, MT, ND, SD, UT, WY	30	0.25	0.24	24	0.20	0.19	34	0.27	0.27
Region 9	AZ, CA, HI, NV	69	0.14	0.12	54	0.11	0.10	53	0.10	0.10
Region 10	AK, ID, OR, WA	14	*	*	14	*	*	18	*	*

\* Sub-national counts between 0-9 are suppressed in accordance with NCHS confidentiality standards. Estimates based on counts less than 20 are suppressed in accordance with NCHS standards of reliability as specified in NCHS Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf).)

<sup>1</sup> Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

<sup>2</sup> U.S. Department of Health and Human Services (HHS) regions by state of residence: Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), Region 2 (New Jersey, New York, and New York City), Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia), Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee), Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin), Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, and Texas), Region 7 (Iowa, Kansas, Missouri, and Nebraska), Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming), Region 9 (Arizona, California, Hawaii, and Nevada), and Region 10 (Alaska, Idaho, Oregon, and Washington).

<sup>3</sup> Age-adjusted death rates (deaths per 100,000 standard population) were calculated using the direct method and adjusted to the 2000 standard population.

NOTES: Drug overdose deaths were identified using underlying cause-of-death codes X40–X44, X60–X64, X85, and Y10–Y14. Specific drugs were identified from the death certificate literal text using the Drug Mentioned with Involvement (DMI) methods. Deaths may involve other drugs in addition to the referent drug group. Counts are provisional and subject to change as additional search terms for drugs are identified. Deaths involving more than one referent drug group (e.g., a death involving both fentanyl and hydrocodone) were counted in both totals. To avoid counting the same death multiple times, the numbers and percentages for drug-specific deaths should not be summed. Caution should be used when comparing numbers and rates across years and regions. In 2018, 2019, 2020, the reporting of at least one specific drug varied by region (Region 1, 98.8%, 99.2, 99.5; Region 2, 97.7%, 98.0, 98.1; Region 3, 88.6%, 91.5, 93.6; Region 4, 91.7%, 93.7, 93.6; Region 5, 93.5%, 94.6, 95.4; Region 6, 84.0%, 87.2, 86.5; Region 7, 89.3%, 92.5, 93.4; Region 8, 89.3%, 92.9, 94.4; Region 9, 90.5%, 93.5, 95.5; Region 10, 95.2%, 96.0, 96.2).

SOURCE: NCHS National Vital Statistics System, 2018-2020.

**Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, Provisional analysis, 2018-2020**

	2018					
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
<b>Fentanyl<sup>1</sup></b>						
All Ages	30,230	9.25	8,151	4.91	22,079	13.72
<15 years	24	0.04	12	*	12	*
15 - 24 years	2,584	6.02	786	3.75	1,798	8.20
25 - 34 years	9,485	20.76	2,600	11.57	6,885	29.68
35 - 44 years	7,838	19.01	2,034	9.84	5,804	28.22
45 - 54 years	5,820	14.00	1,582	7.51	4,238	20.66
55 - 64 years	3,725	8.82	1,004	4.60	2,721	13.35
65+ years	748	1.43	133	0.46	615	2.64
<b>Hydrocodone</b>						
All Ages	2,516	0.77	1,230	0.74	1,286	0.80
<15 years	7	*	4	*	3	*
15 - 24 years	101	0.24	27	0.13	74	0.34
25 - 34 years	301	0.66	103	0.46	198	0.85
35 - 44 years	494	1.20	237	1.15	257	1.25
45 - 54 years	628	1.51	344	1.63	284	1.38
55 - 64 years	672	1.59	349	1.60	323	1.59
65+ years	312	0.60	166	0.57	146	0.63
<b>Hydromorphone</b>						
All Ages	681	0.21	329	0.20	352	0.22
<15 years	-	-	-	-	-	-
15 - 24 years	22	0.05	4	*	18	*
25 - 34 years	103	0.23	45	0.20	58	0.25
35 - 44 years	141	0.34	72	0.35	69	0.34
45 - 54 years	174	0.42	94	0.45	80	0.39
55 - 64 years	166	0.39	82	0.38	84	0.41
65+ years	75	0.14	32	0.11	43	0.18
<b>Oxycodone</b>						
All Ages	5,070	1.55	2,231	1.34	2,839	1.76
<15 years	9	*	3	*	6	*
15 - 24 years	235	0.55	66	0.31	169	0.77
25 - 34 years	755	1.65	249	1.11	506	2.18
35 - 44 years	1,076	2.61	454	2.20	622	3.02
45 - 54 years	1,330	3.20	637	3.02	693	3.38
55 - 64 years	1,244	2.95	603	2.76	641	3.15
65+ years	420	0.80	219	0.75	201	0.86
<b>Oxymorphone</b>						
All Ages	686	0.21	264	0.16	422	0.26
<15 years	1	*	-	-	1	*
15 - 24 years	40	0.09	13	*	27	0.12
25 - 34 years	131	0.29	44	0.20	87	0.38
35 - 44 years	146	0.35	51	0.25	95	0.46
45 - 54 years	167	0.40	71	0.34	96	0.47
55 - 64 years	153	0.36	64	0.29	89	0.44
65+ years	47	0.09	21	0.07	26	0.11

2019

	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
<b>Fentanyl<sup>1</sup></b>						
All Ages	35,449	10.80	9,505	5.70	25,944	16.05
<15 years	48	0.08	21	0.07	27	0.09
15 - 24 years	3,016	7.06	855	4.09	2,161	9.90
25 - 34 years	10,506	22.84	2,902	12.83	7,604	32.51
35 - 44 years	9,249	22.19	2,362	11.31	6,887	33.11
45 - 54 years	6,827	16.71	1,833	8.86	4,994	24.77
55 - 64 years	4,822	11.36	1,328	6.05	3,494	17.05
65+ years	975	1.80	201	0.67	774	3.22
<b>Hydrocodone</b>						
All Ages	2,279	0.69	1,127	0.68	1,152	0.71
<15 years	4	*	-	-	4	*
15 - 24 years	75	0.18	25	0.12	50	0.23
25 - 34 years	301	0.65	125	0.55	176	0.75
35 - 44 years	425	1.02	200	0.96	225	1.08
45 - 54 years	528	1.29	273	1.32	255	1.26
55 - 64 years	615	1.45	315	1.44	300	1.46
65+ years	331	0.61	189	0.63	142	0.59
<b>Hydromorphone</b>						
All Ages	569	0.17	300	0.18	269	0.17
<15 years	1	*	1	*	-	-
15 - 24 years	21	0.05	7	*	14	*
25 - 34 years	85	0.18	38	0.17	47	0.20
35 - 44 years	123	0.30	68	0.33	55	0.26
45 - 54 years	116	0.28	60	0.29	56	0.28
55 - 64 years	138	0.33	79	0.36	59	0.29
65+ years	85	0.16	47	0.16	38	0.16
<b>Oxycodone</b>						
All Ages	4,629	1.41	2,061	1.24	2,568	1.59
<15 years	7	*	4	*	3	*
15 - 24 years	208	0.49	54	0.26	154	0.71
25 - 34 years	748	1.63	272	1.20	476	2.03
35 - 44 years	981	2.35	409	1.96	572	2.75
45 - 54 years	1,109	2.71	548	2.65	561	2.78
55 - 64 years	1,142	2.69	531	2.42	611	2.98
65+ years	432	0.80	241	0.80	191	0.79
<b>Oxymorphone</b>						
All Ages	576	0.18	247	0.15	329	0.20
<15 years	-	-	-	-	-	-
15 - 24 years	30	0.07	8	*	22	0.10
25 - 34 years	117	0.25	37	0.16	80	0.34
35 - 44 years	122	0.29	57	0.27	65	0.31
45 - 54 years	128	0.31	55	0.27	73	0.36
55 - 64 years	134	0.32	67	0.31	67	0.33
65+ years	45	0.08	23	0.08	22	0.09

2020

	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
<b>Fentanyl<sup>1</sup></b>						
All Ages	55,653	16.89	14,666	8.77	40,987	25.26
<15 years	101	0.17	43	0.15	58	0.19
15 - 24 years	5,389	12.66	1,429	6.86	3,960	18.23
25 - 34 years	15,799	34.29	4,173	18.44	11,626	49.59
35 - 44 years	14,708	34.91	3,868	18.34	10,840	51.51
45 - 54 years	10,496	26.00	2,823	13.81	7,673	38.51
55 - 64 years	7,527	17.75	1,988	9.07	5,539	27.03
65+ years	1,623	2.92	342	1.11	1,281	5.16
<b>Hydrocodone</b>						
All Ages	2,553	0.77	1,179	0.71	1,374	0.85
<15 years	2	*	-	-	2	*
15 - 24 years	101	0.24	25	0.12	76	0.35
25 - 34 years	355	0.77	136	0.60	219	0.93
35 - 44 years	532	1.26	232	1.10	300	1.43
45 - 54 years	569	1.41	283	1.38	286	1.44
55 - 64 years	671	1.58	328	1.50	343	1.67
65+ years	323	0.58	175	0.57	148	0.60
<b>Hydromorphone</b>						
All Ages	584	0.18	294	0.18	290	0.18
<15 years	2	*	1	*	1	*
15 - 24 years	18	0.04	8	*	10	*
25 - 34 years	93	0.20	44	0.19	49	0.21
35 - 44 years	118	0.28	57	0.27	61	0.29
45 - 54 years	136	0.34	67	0.33	69	0.35
55 - 64 years	162	0.38	87	0.40	75	0.37
65+ years	55	0.10	30	0.10	25	0.10
<b>Oxycodone</b>						
All Ages	5,111	1.55	2,189	1.31	2,922	1.80
<15 years	9	*	5	*	4	*
15 - 24 years	264	0.62	76	0.36	188	0.87
25 - 34 years	839	1.82	301	1.33	538	2.29
35 - 44 years	1,156	2.74	481	2.28	675	3.21
45 - 54 years	1,201	2.98	567	2.77	634	3.18
55 - 64 years	1,192	2.81	544	2.48	648	3.16
65+ years	448	0.80	215	0.70	233	0.94
<b>Oxymorphone</b>						
All Ages	563	0.17	255	0.15	308	0.19
<15 years	-	-	-	-	-	-
15 - 24 years	30	0.07	9	*	21	0.10
25 - 34 years	97	0.21	40	0.18	57	0.24
35 - 44 years	107	0.25	44	0.21	63	0.30
45 - 54 years	142	0.35	64	0.31	78	0.39
55 - 64 years	137	0.32	72	0.33	65	0.32
65+ years	49	0.09	26	0.08	23	0.09

- Quantity zero.

\* Estimates based on counts less than 20 are suppressed in accordance with NCHS standards of reliability as specified in NCHS Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf).)

<sup>1</sup> Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

NOTES: Drug overdose deaths were identified using underlying cause-of-death codes X40–X44, X60–X64, X85, and Y10–Y14. Specific drugs were identified from the death certificate literal text using the Drug Mentioned with Involvement (DMI) methods. Counts are provisional and subject to change as additional search terms for drugs are identified. Deaths may involve other drugs in addition to the referent drug group. Deaths involving more than one referent drug group (e.g., a death involving both fentanyl and hydrocodone) were counted in both totals. To avoid counting the same death multiple times, the numbers and percentages for drug-specific deaths should not be summed. Caution should be used when comparing numbers across years. The reporting of at least one specific drug in the literal text varied by year (2018, 91.9%; 2019, 93.7%; 2020, 94.4%). Counts of death for unknown age are not included in table.

SOURCE: NCHS National Vital Statistics System, 2018-2020.