

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, 2018-2022

		2018			2019			Fentanyl ¹ 2020			2021			2022		
		Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³
Public Health Region ²																
U.S. Total		30,290	9.3	9.6	35,475	10.8	11.2	55,819	16.8	17.4	70,441	21.2	21.8	73,697	22.1	22.7
Region 1 CT, ME, MA, NH, RI, VT		3,422	23.1	24.3	3,699	24.9	26.1	4,127	27.4	28.4	4,780	31.6	32.3	4,854	32.1	32.6
Region 2 NJ, NY, and NYC		4,435	15.6	15.8	4,544	16.0	16.1	6,028	20.5	20.5	7,166	24.6	24.4	7,385	25.5	25.2
Region 3 DE, DC, MD, PA, VA, WV		5,985	19.4	19.9	6,574	21.3	21.9	9,138	29.2	30.0	9,897	31.6	32.2	9,479	30.3	30.8
Region 4 AL, FL, GA, KY, MS, NC, SC, TN		5,702	8.6	9.2	7,269	10.9	11.6	13,261	19.7	21.0	17,401	25.7	27.4	18,045	26.3	27.9
Region 5 IL, IN, MI, MN, OH, WI		7,196	13.7	14.4	8,057	15.3	16.1	11,667	22.0	23.1	13,277	25.1	26.2	13,313	25.2	26.2
Region 6 AR, LA, NM, OK, TX		690	1.6	1.7	966	2.3	2.3	2,335	5.4	5.6	4,206	9.7	10.0	5,146	11.8	12.1
Region 7 IA, KS, MO, NE		974	6.9	7.5	1,056	7.5	8.1	1,602	11.3	12.1	2,082	14.6	15.7	2,185	15.3	16.4
Region 8 CO, MT, ND, SD, UT, WY		195	1.6	1.6	356	2.9	2.9	802	6.5	6.6	1,318	10.5	10.7	1,428	11.3	11.5
Region 9 AZ, CA, HI, NV		1,369	2.7	2.7	2,507	4.9	4.9	5,855	11.4	11.5	8,278	16.2	16.2	8,827	17.3	17.3
Region 10 AK, ID, OR, WA		322	2.3	2.3	447	3.1	3.2	1,004	6.9	7.1	2,036	13.9	14.0	3,035	20.7	20.6

		2018			2019			Hydrocodone 2020			2021			2022		
		Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³
Public Health Region ²																
U.S. Total		2,519	0.8	0.7	2,284	0.7	0.7	2,559	0.8	0.7	2,542	0.8	0.7	2,214	0.7	0.6
Region 1 CT, ME, MA, NH, RI, VT		56	0.4	0.3	47	0.3	0.3	44	0.3	0.3	59	0.4	0.4	49	0.3	0.3
Region 2 NJ, NY, and NYC		94	0.3	0.3	94	0.3	0.3	115	0.4	0.4	111	0.4	0.4	84	0.3	0.3
Region 3 DE, DC, MD, PA, VA, WV		190	0.6	0.6	110	0.4	0.3	163	0.5	0.5	137	0.4	0.4	122	0.4	0.4
Region 4 AL, FL, GA, KY, MS, NC, SC, TN		602	0.9	0.9	582	0.9	0.8	642	1.0	0.9	669	1.0	1.0	561	0.8	0.8
Region 5 IL, IN, MI, MN, OH, WI		531	1.0	1.0	465	0.9	0.9	513	1.0	0.9	473	0.9	0.9	400	0.8	0.7
Region 6 AR, LA, NM, OK, TX		368	0.9	0.9	336	0.8	0.8	416	1.0	1.0	406	0.9	0.9	406	0.9	0.9
Region 7 IA, KS, MO, NE		108	0.8	0.8	113	0.8	0.8	97	0.7	0.7	91	0.6	0.6	103	0.7	0.7
Region 8 CO, MT, ND, SD, UT, WY		106	0.9	0.9	102	0.8	0.8	80	0.7	0.6	88	0.7	0.7	62	0.5	0.5
Region 9 AZ, CA, HI, NV		356	0.7	0.6	333	0.7	0.6	385	0.8	0.7	399	0.8	0.7	329	0.7	0.6
Region 10 AK, ID, OR, WA		108	0.8	0.7	102	0.7	0.6	104	0.7	0.7	109	0.7	0.7	98	0.7	0.6

		2018			2019			Hydromorphone 2020			2021			2022		
		Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³
Public Health Region ²																
U.S. Total		690	0.2	0.2	569	0.2	0.2	589	0.2	0.2	627	0.2	0.2	527	0.2	0.2
Region 1 CT, ME, MA, NH, RI, VT		42	0.3	0.3	33	0.2	0.2	40	0.3	0.2	27	0.2	0.2	42	0.3	0.3
Region 2 NJ, NY, and NYC		59	0.2	0.2	41	0.1	0.1	56	0.2	0.2	77	0.3	0.2	55	0.2	0.2
Region 3 DE, DC, MD, PA, VA, WV		75	0.2	0.2	49	0.2	0.2	71	0.2	0.2	53	0.2	0.2	51	0.2	0.2
Region 4 AL, FL, GA, KY, MS, NC, SC, TN		214	0.3	0.3	163	0.2	0.2	166	0.3	0.2	178	0.3	0.3	140	0.2	0.2
Region 5 IL, IN, MI, MN, OH, WI		81	0.2	0.2	73	0.1	0.1	69	0.1	0.1	63	0.1	0.1	65	0.1	0.1
Region 6 AR, LA, NM, OK, TX		58	0.1	0.1	42	0.1	0.1	37	0.1	0.1	54	0.1	0.1	48	0.1	0.1
Region 7 IA, KS, MO, NE		17	*	*	18	*	*	17	*	*	16	*	*	14	*	*
Region 8 CO, MT, ND, SD, UT, WY		38	0.3	0.3	32	0.3	0.3	33	0.3	0.3	31	0.3	0.3	23	0.2	0.2
Region 9 AZ, CA, HI, NV		79	0.2	0.1	94	0.2	0.2	67	0.1	0.1	86	0.2	0.2	58	0.1	0.1
Region 10 AK, ID, OR, WA		27	0.2	0.2	24	0.2	0.2	33	0.2	0.2	42	0.3	0.3	31	0.2	0.2

Public Health Region ²	Oxycodone																	
	2018			2019			2020			2021			2022					
	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³
U.S. Total	5,073	1.6	1.5	4,631	1.4	1.4	5,124	1.6	1.5	5,088	1.5	1.5	4,506	1.4	1.3			
Region 1 CT, ME, MA, NH, RI, VT	284	1.9	1.8	326	2.2	2.0	306	2.0	1.9	318	2.1	1.9	273	1.8	1.7			
Region 2 NJ, NY, and NYC	543	1.9	1.9	483	1.7	1.6	562	1.9	1.9	554	1.9	1.8	507	1.8	1.7			
Region 3 DE, DC, MD, PA, VA, WV	618	2.0	1.9	565	1.8	1.8	635	2.0	2.0	611	2.0	1.9	453	1.5	1.4			
Region 4 AL, FL, GA, KY, MS, NC, SC, TN	1,390	2.1	2.1	1,330	2.0	2.0	1,462	2.2	2.2	1,548	2.3	2.3	1,369	2.0	2.0			
Region 5 IL, IN, MI, MN, OH, WI	638	1.2	1.2	558	1.1	1.0	614	1.2	1.2	608	1.2	1.1	522	1.0	1.0			
Region 6 AR, LA, NM, OK, TX	327	0.8	0.8	303	0.7	0.7	361	0.8	0.8	370	0.9	0.8	355	0.8	0.8			
Region 7 IA, KS, MO, NE	190	1.4	1.4	165	1.2	1.2	158	1.1	1.1	163	1.1	1.2	167	1.2	1.1			
Region 8 CO, MT, ND, SD, UT, WY	319	2.6	2.7	274	2.2	2.3	300	2.4	2.4	252	2.0	2.0	234	1.9	1.9			
Region 9 AZ, CA, HI, NV	575	1.1	1.1	452	0.9	0.8	533	1.0	1.0	471	0.9	0.9	457	0.9	0.8			
Region 10 AK, ID, OR, WA	189	1.3	1.3	175	1.2	1.1	193	1.3	1.2	193	1.3	1.2	169	1.2	1.0			

Public Health Region ²	Oxymorphone																	
	2018			2019			2020			2021			2022					
	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³	Number	Crude rate	Age-adjusted rate ³
U.S. Total	686	0.2	0.2	576	0.2	0.2	565	0.2	0.2	540	0.2	0.2	405	0.1	0.1			
Region 1 CT, ME, MA, NH, RI, VT	31	0.2	0.2	33	0.2	0.2	22	0.2	0.1	28	0.2	0.2	31	0.2	0.2			
Region 2 NJ, NY, and NYC	60	0.2	0.2	45	0.2	0.2	90	0.3	0.3	83	0.3	0.3	59	0.2	0.2			
Region 3 DE, DC, MD, PA, VA, WV	111	0.4	0.4	92	0.3	0.3	91	0.3	0.3	72	0.2	0.2	33	0.1	0.1			
Region 4 AL, FL, GA, KY, MS, NC, SC, TN	250	0.4	0.4	219	0.3	0.3	174	0.3	0.3	191	0.3	0.3	133	0.2	0.2			
Region 5 IL, IN, MI, MN, OH, WI	64	0.1	0.1	55	0.1	0.1	51	0.1	0.1	57	0.1	0.1	41	0.1	0.1			
Region 6 AR, LA, NM, OK, TX	43	0.1	0.1	33	0.1	0.1	24	0.1	0.1	23	0.1	0.1	22	0.1	0.1			
Region 7 IA, KS, MO, NE	14	*	*	*	*	*	*	*	*	*	*	*	11	*	*			
Region 8 CO, MT, ND, SD, UT, WY	30	0.3	0.2	24	0.2	0.2	34	0.3	0.3	23	0.2	0.2	25	0.2	0.2			
Region 9 AZ, CA, HI, NV	69	0.1	0.1	54	0.1	0.1	53	0.1	0.1	47	0.1	0.1	34	0.1	0.1			
Region 10 AK, ID, OR, WA	14	*	*	14	*	*	18	*	*	11	*	*	16	*	*			

* Sub-national counts between 1-9 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).

¹ Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

² 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).

³ 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. As the DMI text methods continue to improve over time, the reporting of drug overdose deaths involving specific drugs may be different from previous reports. Deaths involving more than one referent drug group (e.g., a death involving both heroin and cocaine) 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. The reporting of at least once specific drug increased from 2018 to 2022 from 98.8% to 99.6% (Region 1); 97.7% to 98.4% (Region 2); 88.6% to 95.0% (Region 3); 91.7% to 95.0% (Region 4); 93.5% to 97.1% (Region 5); 84.0% to 90.7% (Region 6); 89.3% to 94.6% (Region 7); 93.3% to 94.9% (Region 8); 90.5% to 96.8% (Region 9); and 95.2% to 98.4% (Region 10).

SOURCE: NCHS National Vital Statistics System, 2018–2022.

Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, 2018-2022

	2018					
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
Fentanyl¹						
All Ages	30,290	9.3	8,167	4.9	22,123	13.8
<15 years	24	0.0	12	*	12	*
15 - 24 years	2,590	6.0	788	3.8	1,802	8.2
25 - 34 years	9,499	20.8	2,604	11.6	6,895	29.8
35 - 44 years	7,857	19.1	2,038	9.9	5,819	28.3
45 - 54 years	5,831	14.0	1,587	7.5	4,244	20.7
55 - 64 years	3,735	8.9	1,005	4.6	2,730	13.4
65+ years	748	1.4	133	0.5	615	2.6
Hydrocodone						
All Ages	2,519	0.8	1,230	0.7	1,289	0.8
<15 years	7	*	4	*	3	*
15 - 24 years	102	0.2	27	0.1	75	0.3
25 - 34 years	301	0.7	103	0.5	198	0.9
35 - 44 years	495	1.2	237	1.2	258	1.3
45 - 54 years	628	1.5	344	1.6	284	1.4
55 - 64 years	673	1.6	349	1.6	324	1.6
65+ years	312	0.6	166	0.6	146	0.6
Hydromorphone						
All Ages	690	0.2	332	0.2	358	0.2
<15 years	-	-	-	-	-	-
15 - 24 years	23	0.1	5	*	18	*
25 - 34 years	104	0.2	45	0.2	59	0.3
35 - 44 years	144	0.4	72	0.4	72	0.4
45 - 54 years	176	0.4	95	0.5	81	0.4
55 - 64 years	168	0.4	83	0.4	85	0.4
65+ years	75	0.1	32	0.1	43	0.2
Oxycodone						
All Ages	5,073	1.6	2,232	1.4	2,841	1.8
<15 years	9	*	3	*	6	*
15 - 24 years	235	0.6	66	0.3	169	0.8
25 - 34 years	755	1.7	249	1.1	506	2.2
35 - 44 years	1,077	2.6	455	2.2	622	3.0
45 - 54 years	1,331	3.2	637	3.0	694	3.4
55 - 64 years	1,244	3.0	603	2.8	641	3.2
65+ years	421	0.8	219	0.8	202	0.9
Oxymorphone						
All Ages	686	0.2	264	0.2	422	0.3
<15 years	1	*	-	-	1	*
15 - 24 years	40	0.1	13	0.1	27	0.1
25 - 34 years	131	0.3	44	0.2	87	0.4
35 - 44 years	146	0.4	51	0.3	95	0.5
45 - 54 years	167	0.4	71	0.3	96	0.5
55 - 64 years	153	0.4	64	0.3	89	0.4
65+ years	47	0.1	21	0.1	26	0.1

- 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).

1 Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, 2018-2022 (cont.)

2019						
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
Fentanyl¹						
All Ages	35,475	10.8	9,506	5.7	25,969	16.1
<15 years	48	0.1	21	0.1	27	0.1
15 - 24 years	3,016	7.1	855	4.1	2,161	9.9
25 - 34 years	10,511	22.9	2,902	12.9	7,609	32.6
35 - 44 years	9,262	22.2	2,363	11.3	6,899	33.2
45 - 54 years	6,828	16.7	1,833	8.9	4,995	24.8
55 - 64 years	4,827	11.4	1,328	6.1	3,499	17.1
65+ years	977	1.8	201	0.7	776	3.2
Hydrocodone						
All Ages	2,284	0.7	1,130	0.7	1,154	0.7
<15 years	4	*	-	-	4	*
15 - 24 years	75	0.2	25	0.1	50	0.2
25 - 34 years	301	0.7	125	0.6	176	0.8
35 - 44 years	427	1.0	201	1.0	226	1.1
45 - 54 years	528	1.3	273	1.3	255	1.3
55 - 64 years	617	1.5	317	1.4	300	1.5
65+ years	332	0.6	189	0.6	143	0.6
Hydromorphone						
All Ages	569	0.2	300	0.2	269	0.2
<15 years	1	*	1	*	-	-
15 - 24 years	21	0.1	7	*	14	*
25 - 34 years	85	0.2	38	0.2	47	0.2
35 - 44 years	123	0.3	68	0.3	55	0.3
45 - 54 years	116	0.3	60	0.3	56	0.3
55 - 64 years	138	0.3	79	0.4	59	0.3
65+ years	85	0.2	47	0.2	38	0.2
Oxycodone						
All Ages	4,631	1.4	2,062	1.2	2,569	1.6
<15 years	7	*	4	*	3	*
15 - 24 years	208	0.5	54	0.3	154	0.7
25 - 34 years	749	1.6	273	1.2	476	2.0
35 - 44 years	981	2.4	409	2.0	572	2.8
45 - 54 years	1,109	2.7	548	2.7	561	2.8
55 - 64 years	1,142	2.7	531	2.4	611	3.0
65+ years	433	0.8	241	0.8	192	0.8
Oxymorphone						
All Ages	576	0.2	247	0.2	329	0.2
<15 years	-	-	-	-	-	-
15 - 24 years	30	0.1	8	*	22	0.1
25 - 34 years	117	0.3	37	0.2	80	0.3
35 - 44 years	122	0.3	57	0.3	65	0.3
45 - 54 years	128	0.3	55	0.3	73	0.4
55 - 64 years	134	0.3	67	0.3	67	0.3
65+ years	45	0.1	23	0.1	22	0.1

- 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).

¹ Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, 2018-2022 (cont.)

	2020					
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
Fentanyl¹						
All Ages	55,819	16.8	14,724	8.8	41,094	25.0
<15 years	103	0.2	45	0.2	58	0.2
15 - 24 years	5,419	12.3	1,438	6.7	3,981	17.7
25 - 34 years	15,847	34.8	4,192	18.8	11,655	50.2
35 - 44 years	14,753	34.5	3,882	18.4	10,870	50.3
45 - 54 years	10,517	25.7	2,832	13.9	7,685	37.3
55 - 64 years	7,542	17.6	1,991	9.1	5,551	26.4
65+ years	1,628	3.0	344	1.1	1,284	5.2
Hydrocodone						
All Ages	2,559	0.8	1,181	0.7	1,377	0.8
<15 years	2	*	-	-	2	*
15 - 24 years	101	0.2	25	0.1	76	0.3
25 - 34 years	356	0.8	137	0.6	219	0.9
35 - 44 years	534	1.3	232	1.1	302	1.4
45 - 54 years	572	1.4	284	1.4	287	1.4
55 - 64 years	671	1.6	328	1.5	343	1.6
65+ years	323	0.6	175	0.6	148	0.6
Hydromorphone						
All Ages	589	0.2	295	0.2	293	0.2
<15 years	2	*	1	*	1	*
15 - 24 years	18	*	8	*	10	*
25 - 34 years	94	0.2	44	0.2	50	0.2
35 - 44 years	120	0.3	58	0.3	62	0.3
45 - 54 years	137	0.3	67	0.3	69	0.3
55 - 64 years	163	0.4	87	0.4	76	0.4
65+ years	55	0.1	30	0.1	25	0.1
Oxycodone						
All Ages	5,124	1.6	2,196	1.3	2,928	1.8
<15 years	9	*	5	*	4	*
15 - 24 years	265	0.6	76	0.4	189	0.8
25 - 34 years	841	1.9	302	1.4	539	2.3
35 - 44 years	1,160	2.7	483	2.3	677	3.1
45 - 54 years	1,204	2.9	570	2.8	634	3.1
55 - 64 years	1,195	2.8	545	2.5	650	3.1
65+ years	448	0.8	215	0.7	233	1.0
Oxymorphone						
All Ages	565	0.2	256	0.2	309	0.2
<15 years	-	-	-	-	-	-
15 - 24 years	30	0.1	9	*	21	0.1
25 - 34 years	97	0.2	40	0.2	57	0.3
35 - 44 years	107	0.3	44	0.2	63	0.3
45 - 54 years	143	0.4	65	0.3	78	0.4
55 - 64 years	138	0.3	72	0.3	66	0.3
65+ years	49	0.1	26	0.1	23	0.1

- 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).

¹ Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, 2018-2022 (cont.)

	2021					
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
Fentanyl¹						
All Ages	70,441	21.2	19,228	11.5	51,210	31.1
<15 years	189	0.3	93	0.3	96	0.3
15 - 24 years	5,944	13.5	1,762	8.2	4,181	18.5
25 - 34 years	18,696	41.2	5,039	22.6	13,656	59.0
35 - 44 years	19,038	44.0	5,129	24.0	13,908	63.6
45 - 54 years	13,386	33.0	3,698	18.3	9,688	47.6
55 - 64 years	10,683	25.1	2,943	13.6	7,740	37.1
65+ years	2,496	4.4	562	1.8	1,934	7.7
Hydrocodone						
All Ages	2,542	0.8	1,232	0.7	1,310	0.8
<15 years	2	*	2	*	0	-
15 - 24 years	72	0.2	26	0.1	46	0.2
25 - 34 years	346	0.8	146	0.7	200	0.9
35 - 44 years	530	1.2	259	1.2	271	1.2
45 - 54 years	558	1.4	262	1.3	296	1.5
55 - 64 years	656	1.5	357	1.7	299	1.4
65+ years	378	0.7	180	0.6	198	0.8
Hydromorphone						
All Ages	627	0.2	299	0.2	328	0.2
<15 years	-	-	-	-	-	-
15 - 24 years	19	*	4	*	15	*
25 - 34 years	85	0.2	36	0.2	49	0.2
35 - 44 years	141	0.3	75	0.4	66	0.3
45 - 54 years	133	0.3	66	0.3	67	0.3
55 - 64 years	168	0.4	82	0.4	86	0.4
65+ years	81	0.1	36	0.1	45	0.2
Oxycodone						
All Ages	5,088	1.5	2,210	1.3	2,878	1.8
<15 years	9	*	5	*	4	*
15 - 24 years	179	0.4	57	0.3	122	0.5
25 - 34 years	840	1.9	270	1.2	570	2.5
35 - 44 years	1,052	2.4	480	2.3	572	2.6
45 - 54 years	1,227	3.0	562	2.8	665	3.3
55 - 64 years	1,227	2.9	565	2.6	662	3.2
65+ years	554	1.0	271	0.9	283	1.1
Oxymorphone						
All Ages	540	0.2	231	0.1	309	0.2
<15 years	1	*	-	-	1	*
15 - 24 years	17	*	3	*	14	*
25 - 34 years	85	0.2	32	0.1	53	0.2
35 - 44 years	108	0.3	48	0.2	60	0.3
45 - 54 years	130	0.3	58	0.3	72	0.4
55 - 64 years	140	0.3	64	0.3	76	0.4
65+ years	59	0.1	26	0.1	33	0.1

- Quantity zero.

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¹ Includes drug overdose deaths involving fentanyl, fentanyl analogs, and fentanyl metabolites.

Table 2. Number and rate of drug overdose deaths involving fentanyl, hydrocodone, hydromorphone, oxycodone and oxymorphone, by age group and sex: United States, 2018-2022 (cont.)

	2022					
	Total		Female		Male	
	Number	Crude Rate	Number	Crude Rate	Number	Crude Rate
Fentanyl¹						
All Ages	73,697	22.1	19,558	11.6	54,132	32.8
<15 years	258	0.4	108	0.4	150	0.5
15 - 24 years	5,424	12.2	1,675	7.7	3,746	16.5
25 - 34 years	18,465	40.6	4,854	21.8	13,610	58.7
35 - 44 years	20,309	46.5	5,414	25.1	14,893	67.3
45 - 54 years	14,336	35.5	3,797	18.8	10,538	52.0
55 - 64 years	11,722	27.9	3,016	14.1	8,706	42.1
65+ years	3,176	5.5	693	2.2	2,483	9.6
Hydrocodone						
All Ages	2,214	0.7	1,100	0.7	1,114	0.7
<15 years	3	*	2	*	1	*
15 - 24 years	53	0.1	21	0.1	32	0.1
25 - 34 years	282	0.6	114	0.5	168	0.7
35 - 44 years	437	1.0	213	1.0	224	1.0
45 - 54 years	512	1.3	275	1.4	237	1.2
55 - 64 years	588	1.4	300	1.4	288	1.4
65+ years	339	0.6	175	0.6	164	0.6
Hydromorphone						
All Ages	527	0.2	263	0.2	264	0.2
<15 years	1	*	1	*	0	-
15 - 24 years	9	*	4	*	5	*
25 - 34 years	54	0.1	21	0.1	33	0.1
35 - 44 years	112	0.3	56	0.3	56	0.3
45 - 54 years	116	0.3	65	0.3	51	0.3
55 - 64 years	151	0.4	86	0.4	65	0.3
65+ years	84	0.2	30	0.1	54	0.2
Oxycodone						
All Ages	4,506	1.4	1,925	1.2	2,581	1.6
<15 years	8	*	1	*	7	*
15 - 24 years	194	0.4	55	0.3	139	0.6
25 - 34 years	669	1.5	236	1.1	433	1.9
35 - 44 years	951	2.2	415	1.9	536	2.4
45 - 54 years	1,015	2.5	467	2.3	548	2.7
55 - 64 years	1,125	2.7	509	2.4	616	3.0
65+ years	544	0.9	242	0.8	302	1.2
Oxymorphone						
All Ages	405	0.1	178	0.1	227	0.1
<15 years	1	*	-	-	1	*
15 - 24 years	22	0.1	5	*	17	*
25 - 34 years	65	0.1	32	0.1	33	0.1
35 - 44 years	73	0.2	30	0.1	43	0.2
45 - 54 years	71	0.2	37	0.2	34	0.2
55 - 64 years	118	0.3	55	0.3	63	0.3
65+ years	55	0.1	19	*	36	0.1

- Quantity zero.

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¹ 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. As the DMI text methods continue to improve over time, the reporting of drug overdose deaths involving specific drugs may be different from previous reports. 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 heroin and cocaine) 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%; 2021, 95.2%; 2022, 95.8%). Deaths from unknown age or unknown sex are included in total categories.

SOURCE: NCHS National Vital Statistics System, 2018-2022.