

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	All drug overdose deaths ¹								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All persons									
Deaths per 100,000 resident population									
All ages, age-adjusted ²	6.1	6.2	10.1	12.3	13.8	14.7	16.3	19.8	21.7
All ages, crude	6.0	6.2	10.1	12.4	13.9	14.8	16.3	19.7	21.6
Under 15 years	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15–24 years	3.2	3.7	6.9	8.2	8.3	8.6	9.7	12.4	12.6
25–34 years	8.1	7.9	13.6	18.4	20.9	23.1	26.9	34.6	38.4
35–44 years	14.0	14.3	19.6	20.8	23.0	25.0	28.3	35.0	39.0
45–54 years	11.1	11.6	21.1	25.1	27.5	28.2	30.0	34.5	37.7
55–64 years	4.2	4.2	9.0	15.0	19.2	20.3	21.8	25.6	28.0
65–74 years	2.4	2.0	3.2	4.7	6.4	6.9	7.2	8.2	9.2
75–84 years	2.8	2.4	3.1	3.4	3.6	3.6	3.6	3.4	3.6
85 years and over	3.8	4.4	4.1	4.7	4.3	4.1	4.4	4.0	4.0
Male									
All ages, age-adjusted ²	8.2	8.3	12.8	15.0	17.0	18.3	20.8	26.2	29.1
All ages, crude	8.2	8.4	12.9	15.2	17.2	18.4	20.8	26.1	29.0
Under 15 years	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
15–24 years	4.5	5.3	10.0	11.6	11.7	12.1	13.3	17.5	17.1
25–34 years	11.5	11.3	18.7	25.0	28.6	31.9	37.9	48.9	54.3
35–44 years	19.2	19.5	24.4	24.9	28.1	30.8	36.3	46.9	53.0
45–54 years	15.2	15.7	25.8	28.5	31.5	32.9	35.3	42.5	48.3
55–64 years	4.9	4.4	10.6	17.3	22.7	23.5	26.2	32.2	36.2
65–74 years	2.7	2.1	3.3	4.5	6.9	7.3	8.5	10.0	11.8
75–84 years	2.5	2.5	3.4	3.6	3.7	3.8	3.9	3.7	3.7
85 years and over	4.4	5.9	5.2	5.1	5.9	4.3	5.0	4.6	4.5
Female									
All ages, age-adjusted ²	3.9	4.1	7.3	9.6	10.6	11.1	11.8	13.4	14.4
All ages, crude	3.9	4.1	7.4	9.8	10.7	11.3	11.9	13.5	14.3
Under 15 years	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3
15–24 years	1.8	1.9	3.5	4.6	4.8	5.0	5.9	7.0	7.9
25–34 years	4.6	4.6	8.5	11.9	13.0	14.1	15.7	19.9	22.0
35–44 years	8.7	9.2	14.8	16.8	18.0	19.2	20.5	23.3	25.1
45–54 years	7.2	7.7	16.5	21.8	23.6	23.7	24.9	26.7	27.5
55–64 years	3.5	3.9	7.5	12.9	15.9	17.2	17.6	19.5	20.3
65–74 years	2.1	2.0	3.1	4.8	5.9	6.5	6.1	6.5	7.0
75–84 years	3.0	2.3	2.9	3.3	3.4	3.5	3.3	3.2	3.5
85 years and over	3.5	3.9	3.7	4.5	3.5	4.0	4.1	3.6	3.8
All ages, age-adjusted ^{2,3}									
Male:									
White	8.1	8.4	13.6	16.8	19.0	20.4	23.2	28.8	31.6
Black or African American	11.5	10.8	12.8	10.1	12.9	13.8	16.8	24.0	29.7
American Indian or Alaska Native	5.7	6.1	10.8	11.8	12.9	15.9	16.0	17.7	19.7
Asian or Pacific Islander	1.5	1.4	2.2	2.5	3.2	3.3	4.1	4.7	5.2
Hispanic or Latino	8.6	7.1	8.4	7.6	9.2	9.3	10.9	13.9	15.9
White, not Hispanic or Latino	8.0	8.6	14.7	19.0	21.4	23.2	26.2	32.7	35.8
Black, not Hispanic or Latino	11.5	10.9	13.0	10.5	13.3	14.2	17.3	24.7	30.8

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	All drug overdose deaths ¹								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All ages, age-adjusted ^{2,3}									
Deaths per 100,000 resident population									
Female:									
White	4.0	4.3	8.0	10.9	12.1	12.7	13.6	15.2	16.3
Black or African American	3.9	4.1	6.0	5.7	6.3	7.0	7.5	10.0	11.2
American Indian or Alaska Native	4.6	3.7	8.6	9.7	11.6	11.2	11.3	13.1	12.7
Asian or Pacific Islander	1.0	0.8	1.3	1.5	1.5	1.7	1.5	1.8	2.0
Hispanic or Latino	2.2	2.0	3.0	3.6	4.1	4.1	4.4	5.0	5.1
White, not Hispanic or Latino	4.3	4.5	8.8	12.5	13.8	14.6	15.8	17.7	19.1
Black, not Hispanic or Latino	4.0	4.2	6.2	5.9	6.5	7.3	7.7	10.4	11.7
Drug overdose deaths involving any opioid (T40.0–T40.4, T40.6) ^{1,4}									
Sex, age, race, and Hispanic origin	1999	2000	2005	2010	2013	2014	2015	2016	2017
All persons									
Deaths per 100,000 resident population									
All ages, age-adjusted ²	2.9	3.0	5.1	6.8	7.9	9.0	10.4	13.3	14.9
All ages, crude	2.9	3.0	5.0	6.8	7.9	9.0	10.3	13.1	14.6
Under 15 years	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15–24 years	1.6	1.9	4.0	5.5	5.7	6.2	7.0	9.3	9.5
25–34 years	4.1	4.1	7.4	11.4	13.8	16.2	19.4	25.9	29.1
35–44 years	7.2	7.3	9.6	11.6	13.3	15.6	18.4	24.1	27.3
45–54 years	5.4	5.8	10.7	13.2	14.8	16.1	17.6	21.2	24.1
55–64 years	1.5	1.6	3.9	7.4	9.9	11.1	12.4	15.2	17.0
65–74 years	0.5	0.5	1.2	1.7	2.7	3.3	3.5	4.2	4.9
75–84 years	0.4	0.3	0.7	0.8	0.9	1.0	1.2	1.2	1.4
85 years and over	*	*	1.0	1.3	1.0	1.1	0.9	0.9	1.2
Male									
All ages, age-adjusted ²	4.3	4.4	6.6	8.7	10.2	11.7	13.7	18.1	20.4
All ages, crude	4.4	4.4	6.7	8.8	10.3	11.7	13.7	17.9	20.2
Under 15 years	*	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
15–24 years	2.4	2.9	6.0	8.0	8.2	8.9	9.8	13.4	13.0
25–34 years	6.3	6.2	10.5	16.2	19.7	23.4	28.2	37.3	41.7
35–44 years	10.9	10.7	12.3	14.7	16.9	20.1	24.5	33.3	38.1
45–54 years	8.2	8.6	13.6	15.4	17.4	19.2	21.2	26.8	31.5
55–64 years	2.0	1.9	4.7	8.7	11.9	13.4	15.3	19.3	22.1
65–74 years	0.7	0.5	1.0	1.6	2.8	3.4	4.4	5.3	6.3
75–84 years	0.5	*	0.6	0.8	1.0	1.0	1.2	1.4	1.4
85 years and over	*	*	*	1.4	1.5	0.9	0.9	1.0	1.2
Female									
All ages, age-adjusted ²	1.4	1.6	3.4	4.9	5.6	6.3	7.1	8.5	9.4
All ages, crude	1.4	1.6	3.4	4.9	5.6	6.3	7.0	8.4	9.2
Under 15 years	*	*	*	0.1	0.1	0.1	0.1	0.1	0.1
15–24 years	0.7	0.7	1.8	2.8	3.0	3.3	4.1	4.9	5.7
25–34 years	2.0	2.0	4.3	6.6	7.7	8.8	10.5	14.1	16.1
35–44 years	3.5	3.8	6.9	8.5	9.8	11.2	12.5	15.0	16.5
45–54 years	2.7	3.1	7.8	11.1	12.2	13.1	14.0	15.8	16.9
55–64 years	1.1	1.4	3.2	6.2	7.9	9.0	9.8	11.5	12.3
65–74 years	0.4	0.5	1.4	1.8	2.6	3.1	2.8	3.3	3.6
75–84 years	0.4	*	0.7	0.8	0.8	1.1	1.1	1.1	1.4
85 years and over	*	*	0.9	1.2	0.8	1.2	0.9	0.8	1.1

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving any opioid (T40.0–T40.4, T40.6) ^{1,4}								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All ages, age-adjusted ^{2,3} Deaths per 100,000 resident population									
Male:									
White	4.4	4.5	7.4	10.1	11.7	13.4	15.8	20.4	22.7
Black or African American	5.7	5.6	4.8	4.1	6.3	7.4	9.1	14.7	18.7
American Indian or Alaska Native	3.2	3.4	5.7	6.3	7.2	9.7	9.3	10.2	11.9
Asian or Pacific Islander	*	0.5	0.9	0.9	1.3	1.4	1.7	2.3	2.4
Hispanic or Latino	5.8	4.5	4.5	4.1	5.6	5.7	6.7	9.2	10.5
White, not Hispanic or Latino	4.1	4.4	8.0	11.6	13.3	15.5	18.1	23.4	26.1
Black, not Hispanic or Latino	5.7	5.7	4.8	4.3	6.5	7.6	9.3	15.1	19.4
Female:									
White	1.5	1.7	3.8	5.6	6.6	7.4	8.2	9.7	10.7
Black or African American	1.5	1.5	2.1	2.5	3.0	3.6	4.0	5.9	6.9
American Indian or Alaska Native	1.9	1.4	4.6	5.7	6.5	5.8	6.5	7.6	7.5
Asian or Pacific Islander	*	*	0.4	0.5	0.4	0.6	0.5	0.8	0.9
Hispanic or Latino	1.0	0.8	1.4	1.6	2.1	2.3	2.4	3.0	3.1
White, not Hispanic or Latino	1.6	1.8	4.3	6.5	7.6	8.5	9.6	11.4	12.7
Black, not Hispanic or Latino	1.6	1.6	2.2	2.6	3.1	3.7	4.1	6.1	7.2
Sex, age, race, and Hispanic origin	Drug overdose deaths involving natural and semisynthetic opioids (T40.2) ^{1,5}								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All persons Deaths per 100,000 resident population									
All ages, age-adjusted ²	1.0	1.0	1.9	3.5	3.5	3.8	3.9	4.4	4.4
All ages, crude	1.0	1.0	2.0	3.5	3.6	3.8	4.0	4.5	4.5
Under 15 years	*	*	0.0	0.1	0.1	0.1	0.1	0.1	0.1
15–24 years	0.5	0.5	1.2	2.4	1.7	1.7	1.6	2.3	2.1
25–34 years	1.3	1.3	2.5	5.3	4.9	4.9	5.3	6.3	6.3
35–44 years	2.3	2.4	3.7	6.1	5.9	6.5	6.9	7.7	7.7
45–54 years	2.0	2.2	4.4	7.3	7.8	8.0	8.1	8.7	8.6
55–64 years	0.7	0.7	1.9	4.2	5.4	6.1	6.4	7.2	7.1
65–74 years	0.3	0.3	0.7	1.1	1.7	2.1	2.1	2.3	2.5
75–84 years	0.2	*	0.4	0.5	0.6	0.8	0.9	0.9	1.0
85 years and over	*	*	0.6	0.9	0.8	0.7	0.7	0.6	0.9
Male									
All ages, age-adjusted ²	1.4	1.4	2.4	4.3	4.1	4.2	4.4	5.2	5.2
All ages, crude	1.4	1.5	2.4	4.4	4.1	4.3	4.5	5.3	5.2
Under 15 years	*	*	*	0.1	0.1	0.1	0.1	0.1	*
15–24 years	0.7	0.8	1.9	3.5	2.6	2.3	2.2	3.3	2.8
25–34 years	2.0	1.9	3.4	7.1	6.4	6.5	7.0	8.4	8.3
35–44 years	3.6	3.4	4.4	7.5	6.6	7.2	7.8	9.1	9.5
45–54 years	2.8	3.1	5.3	8.3	8.2	8.4	8.2	9.3	9.3
55–64 years	0.8	0.7	2.0	4.7	5.7	6.3	6.8	7.8	7.5
65–74 years	0.4	0.3	0.5	1.0	1.6	1.9	2.3	2.4	2.6
75–84 years	*	*	0.4	0.5	0.7	0.7	0.9	0.9	0.8
85 years and over	*	*	*	*	1.1	*	*	*	0.9

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving natural and semisynthetic opioids (T40.2) ^{1,5}								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
Deaths per 100,000 resident population									
Female									
All ages, age-adjusted ²	0.5	0.6	1.5	2.7	3.0	3.3	3.4	3.6	3.6
All ages, crude	0.5	0.6	1.5	2.8	3.1	3.4	3.4	3.7	3.7
Under 15 years	*	*	*	*	*	0.1	0.1	0.1	0.1
15–24 years	0.3	0.3	0.6	1.3	0.9	0.9	1.0	1.2	1.4
25–34 years	0.7	0.8	1.6	3.4	3.3	3.2	3.5	4.2	4.3
35–44 years	1.1	1.4	2.9	4.8	5.2	5.9	6.1	6.3	5.8
45–54 years	1.1	1.3	3.5	6.4	7.3	7.7	7.9	8.1	8.0
55–64 years	0.6	0.7	1.7	3.6	5.0	5.9	5.9	6.5	6.6
65–74 years	0.2	0.3	0.8	1.3	1.8	2.3	1.9	2.3	2.3
75–84 years	*	*	0.5	0.5	0.6	0.8	0.9	0.8	1.1
85 years and over	*	*	*	0.8	0.7	0.8	0.7	0.5	0.9
All ages, age-adjusted ^{2,3}									
Male:									
White	1.6	1.6	2.7	5.1	4.7	4.9	5.1	6.0	5.9
Black or African American	1.0	0.9	1.1	1.5	1.8	2.2	2.3	3.1	3.5
American Indian or Alaska Native	*	*	2.2	3.6	3.6	4.4	4.3	3.6	3.8
Asian or Pacific Islander	*	*	0.3	0.5	0.6	0.6	0.6	0.7	0.7
Hispanic or Latino	2.3	1.5	1.5	1.6	2.0	1.7	1.8	2.1	2.4
White, not Hispanic or Latino	1.4	1.6	3.0	5.9	5.4	5.6	6.0	7.0	6.9
Black, not Hispanic or Latino	1.0	0.9	1.2	1.5	1.8	2.2	2.4	3.3	3.6
Female:									
White	0.6	0.7	1.7	3.2	3.5	3.8	3.9	4.2	4.2
Black or African American	0.3	0.3	0.8	1.3	1.5	1.7	1.8	2.2	2.2
American Indian or Alaska Native	*	*	1.9	2.8	3.7	3.8	3.3	3.5	3.4
Asian or Pacific Islander	*	*	*	0.4	0.2	0.3	0.2	0.4	0.4
Hispanic or Latino	0.3	0.3	0.6	0.8	1.0	1.1	1.1	1.2	1.1
White, not Hispanic or Latino	0.6	0.8	1.9	3.6	4.0	4.4	4.6	4.9	4.9
Black, not Hispanic or Latino	0.3	0.3	0.8	1.3	1.5	1.8	1.9	2.3	2.3
Drug overdose deaths involving methadone (T40.3) ¹									
Sex, age, race, and Hispanic origin	1999	2000	2005	2010	2013	2014	2015	2016	2017
Deaths per 100,000 resident population									
All persons									
All ages, age-adjusted ²	0.3	0.4	1.5	1.5	1.1	1.1	1.0	1.0	1.0
All ages, crude	0.3	0.4	1.5	1.5	1.1	1.1	1.0	1.0	1.0
Under 15 years	*	*	0.0	0.0	*	*	*	*	*
15–24 years	0.1	0.2	1.4	1.3	0.6	0.5	0.5	0.4	0.4
25–34 years	0.4	0.5	2.5	2.8	2.0	1.8	1.7	1.7	1.5
35–44 years	0.8	0.9	2.8	2.4	2.1	1.9	1.8	2.0	1.8
45–54 years	0.5	0.7	3.0	2.8	2.1	2.0	2.0	1.8	1.8
55–64 years	0.1	0.2	1.0	1.5	1.5	1.6	1.6	1.7	1.7
65–74 years	*	*	0.2	0.2	0.4	0.3	0.4	0.4	0.5
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*

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[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving methadone (T40.3) ¹								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
Deaths per 100,000 resident population									
Male									
All ages, age-adjusted ²	0.4	0.4	2.0	1.9	1.4	1.3	1.2	1.3	1.1
All ages, crude	0.4	0.5	2.0	1.9	1.4	1.3	1.2	1.3	1.2
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	0.2	0.3	2.2	1.9	0.9	0.8	0.7	0.6	0.5
25–34 years	0.5	0.6	3.4	4.0	2.6	2.4	2.2	2.2	1.8
35–44 years	1.0	1.1	3.5	2.9	2.3	2.2	2.1	2.4	2.0
45–54 years	0.7	0.9	3.7	3.2	2.3	2.1	2.0	2.0	2.0
55–64 years	*	0.2	1.3	1.9	1.8	1.9	1.8	2.1	2.0
65–74 years	*	*	*	0.2	0.4	0.4	0.6	0.5	0.6
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*
Female									
All ages, age-adjusted ²	0.2	0.2	1.0	1.1	0.9	0.9	0.8	0.8	0.8
All ages, crude	0.2	0.2	1.0	1.0	0.9	0.9	0.8	0.8	0.8
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	*	*	0.6	0.6	0.3	0.3	0.2	0.2	0.2
25–34 years	0.3	0.3	1.5	1.6	1.3	1.2	1.1	1.2	1.1
35–44 years	0.6	0.7	2.1	1.9	1.9	1.6	1.5	1.6	1.6
45–54 years	0.4	0.5	2.4	2.4	1.8	1.9	1.9	1.7	1.5
55–64 years	*	*	0.7	1.2	1.3	1.3	1.4	1.4	1.4
65–74 years	*	*	0.2	0.2	0.4	0.3	0.3	0.2	0.3
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*
All ages, age-adjusted ^{2,3}									
Male:									
White	0.4	0.5	2.3	2.3	1.6	1.5	1.4	1.4	1.3
Black or African American	0.2	0.3	0.9	0.7	0.7	0.6	0.7	0.8	1.0
American Indian or Alaska Native	*	*	1.8	1.6	1.0	1.2	1.1	1.0	1.2
Asian or Pacific Islander	*	*	*	*	*	*	*	*	*
Hispanic or Latino	0.4	0.2	0.7	0.8	0.6	0.6	0.6	0.7	0.7
White, not Hispanic or Latino	0.4	0.5	2.6	2.6	1.8	1.7	1.6	1.6	1.5
Black, not Hispanic or Latino	0.2	0.2	0.9	0.7	0.7	0.6	0.7	0.8	1.0
Female:									
White	0.2	0.3	1.2	1.2	1.1	1.0	1.0	0.9	0.9
Black or African American	0.2	0.2	0.5	0.5	0.5	0.6	0.5	0.6	0.6
American Indian or Alaska Native	*	*	1.4	1.9	1.3	*	*	*	0.9
Asian or Pacific Islander	*	*	*	*	*	*	*	*	*
Hispanic or Latino	*	0.1	0.4	0.4	0.3	0.3	0.3	0.3	0.3
White, not Hispanic or Latino	0.2	0.3	1.3	1.4	1.2	1.2	1.1	1.1	1.1
Black, not Hispanic or Latino	0.2	0.2	0.6	0.6	0.5	0.6	0.5	0.6	0.6

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving other synthetic opioids (other than methadone) (T40.4) ^{1,6}								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All persons									
Deaths per 100,000 resident population									
All ages, age-adjusted ²	0.3	0.3	0.6	1.0	1.0	1.8	3.1	6.2	9.0
All ages, crude	0.3	0.3	0.6	1.0	1.0	1.7	3.0	6.0	8.7
Under 15 years	*	*	*	*	*	*	*	*	0.1
15–24 years	0.1	0.1	0.3	0.5	0.5	1.2	2.3	4.5	6.1
25–34 years	0.3	0.2	0.7	1.4	1.5	3.4	6.6	13.6	19.5
35–44 years	0.6	0.7	1.2	1.7	1.6	3.1	5.6	11.9	17.3
45–54 years	0.5	0.6	1.3	2.1	2.0	3.1	4.6	9.0	13.6
55–64 years	0.2	0.3	0.5	1.2	1.4	1.9	2.9	5.4	8.3
65–74 years	0.1	*	0.2	0.3	0.4	0.5	0.7	1.3	1.9
75–84 years	*	*	0.2	0.2	*	0.2	0.2	0.2	0.3
85 years and over	*	*	*	*	*	*	*	*	*
Male									
All ages, age-adjusted ²	0.3	0.3	0.6	1.0	1.1	2.2	4.2	8.9	13.0
All ages, crude	0.3	0.3	0.6	1.0	1.1	2.2	4.1	8.7	12.8
Under 15 years	*	*	*	*	*	*	*	*	0.1
15–24 years	0.1	0.1	0.5	0.7	0.8	1.7	3.2	6.4	8.5
25–34 years	0.4	0.3	0.9	1.8	2.0	4.8	9.8	20.0	28.3
35–44 years	0.7	0.7	1.3	1.8	1.7	3.9	7.9	17.4	25.4
45–54 years	0.6	0.7	1.3	1.9	1.9	3.6	5.8	12.4	19.5
55–64 years	0.2	0.2	0.4	1.1	1.4	2.0	3.6	7.5	12.1
65–74 years	*	*	*	*	0.3	0.4	0.8	1.7	2.7
75–84 years	*	*	*	*	*	*	*	*	0.4
85 years and over	*	*	*	*	*	*	*	*	*
Female									
All ages, age-adjusted ²	0.2	0.3	0.5	0.9	0.9	1.3	1.9	3.5	5.0
All ages, crude	0.2	0.3	0.5	0.9	0.9	1.3	1.9	3.4	4.8
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	*	*	0.1	0.4	0.3	0.6	1.3	2.5	3.7
25–34 years	0.2	0.2	0.6	1.0	1.0	1.9	3.3	7.1	10.3
35–44 years	0.5	0.6	1.1	1.5	1.4	2.3	3.4	6.5	9.3
45–54 years	0.5	0.6	1.3	2.2	2.2	2.6	3.4	5.8	7.8
55–64 years	0.3	0.4	0.6	1.3	1.5	1.7	2.1	3.5	4.8
65–74 years	*	*	0.3	0.5	0.5	0.6	0.6	0.9	1.2
75–84 years	*	*	*	*	*	*	*	*	0.3
85 years and over	*	*	*	*	*	*	*	*	*
All ages, age-adjusted ^{2,3}									
Male:									
White	0.3	0.3	0.7	1.2	1.2	2.5	4.8	9.9	14.4
Black or African American	*	0.1	0.2	0.3	0.5	1.5	3.1	8.4	13.6
American Indian or Alaska Native	*	*	*	*	*	1.5	1.5	3.1	5.3
Asian or Pacific Islander	*	*	*	*	*	0.2	0.4	1.0	1.4
Hispanic or Latino	0.2	*	0.2	0.2	0.4	0.7	1.4	4.2	6.0
White, not Hispanic or Latino	0.3	0.4	0.8	1.5	1.5	3.0	5.8	11.5	16.8
Black, not Hispanic or Latino	*	0.1	0.2	0.3	0.5	1.5	3.2	8.6	14.1

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving other synthetic opioids (other than methadone) (T40.4) ^{1,6}								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
Deaths per 100,000 resident population									
Female									
White	0.3	0.3	0.6	1.1	1.0	1.5	2.3	4.0	5.7
Black or African American	*	*	0.2	0.4	0.4	0.7	1.1	2.9	4.2
American Indian or Alaska Native	*	*	*	1.0	*	0.9	1.1	1.9	2.5
Asian or Pacific Islander	*	*	*	*	*	*	*	0.3	0.4
Hispanic or Latino	*	*	0.1	0.3	0.3	0.4	0.4	1.1	1.4
White, not Hispanic or Latino	0.3	0.3	0.7	1.2	1.2	1.8	2.7	4.8	6.9
Black, not Hispanic or Latino	*	*	0.3	0.4	0.5	0.7	1.1	3.0	4.5
Drug overdose deaths involving heroin (T40.1) ^{1,7}									
Sex, age, race, and Hispanic origin	1999	2000	2005	2010	2013	2014	2015	2016	2017
Deaths per 100,000 resident population									
All persons									
All ages, age-adjusted ²	0.7	0.7	0.7	1.0	2.7	3.4	4.1	4.9	4.9
All ages, crude	0.7	0.7	0.7	1.0	2.6	3.3	4.0	4.8	4.8
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	0.5	0.6	0.7	1.2	2.9	3.3	3.8	4.0	3.4
25–34 years	1.0	1.0	1.2	2.2	6.3	8.0	9.7	11.3	10.8
35–44 years	1.8	1.5	1.2	1.6	4.4	5.9	7.4	9.0	9.1
45–54 years	1.3	1.2	1.4	1.4	3.7	4.7	5.6	7.0	7.2
55–64 years	0.3	0.3	0.4	0.7	2.1	2.7	3.4	4.3	4.8
65–74 years	*	*	*	*	0.3	0.5	0.6	0.9	1.2
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*
Male									
All ages, age-adjusted ²	1.2	1.1	1.1	1.6	4.2	5.2	6.3	7.5	7.3
All ages, crude	1.2	1.1	1.1	1.6	4.2	5.2	6.2	7.4	7.2
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	0.8	0.9	1.0	1.9	4.2	4.8	5.2	5.7	4.7
25–34 years	1.6	1.7	2.0	3.5	9.9	12.3	14.8	17.1	16.0
35–44 years	0.6	0.5	0.5	0.6	1.9	2.6	3.5	4.1	4.7
45–54 years	0.3	0.3	0.5	0.5	1.6	2.2	2.7	3.6	3.5
55–64 years	*	*	*	0.3	0.7	1.0	1.5	1.9	2.1
65–74 years	*	*	*	*	0.5	0.9	1.1	1.7	2.1
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*
Female									
All ages, age-adjusted ²	0.2	0.2	0.3	0.4	1.2	1.6	2.0	2.4	2.5
All ages, crude	0.2	0.2	0.3	0.4	1.1	1.5	1.9	2.3	2.4
Under 15 years	*	*	*	*	*	*	*	*	*
15–24 years	0.2	0.2	0.3	0.6	1.5	1.7	2.2	2.1	2.0
25–34 years	0.3	0.4	0.5	0.9	2.6	3.7	4.6	5.4	5.4
35–44 years	0.6	0.5	0.5	0.6	1.9	2.6	3.5	4.1	4.7
45–54 years	0.3	0.3	0.5	0.5	1.6	2.2	2.7	3.6	3.5
55–64 years	*	*	*	0.3	0.7	1.0	1.5	1.9	2.1
65–74 years	*	*	*	*	*	*	0.2	0.3	0.4
75–84 years	*	*	*	*	*	*	*	*	*
85 years and over	*	*	*	*	*	*	*	*	*

Table 8. Drug overdose death rates, by drug type, sex, age, race, and Hispanic origin: United States, selected years 1999–2017

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_008.

[Data are based on death certificates]

Sex, age, race, and Hispanic origin	Drug overdose deaths involving heroin (T40.1) ^{1,7} —Con.								
	1999	2000	2005	2010	2013	2014	2015	2016	2017
All ages, age-adjusted ^{2,3}	Deaths per 100,000 resident population								
Male:									
White	1.2	1.1	1.1	1.8	4.7	6.0	7.2	8.3	8.0
Black or African American	1.4	1.6	1.3	1.2	3.4	4.1	5.0	7.1	7.8
American Indian or Alaska Native	*	*	*	*	2.6	3.5	4.0	4.3	4.2
Asian or Pacific Islander	*	*	*	*	0.5	0.6	0.8	0.8	0.9
Hispanic or Latino	2.0	1.6	1.4	1.5	2.6	3.2	3.8	4.4	4.7
White, not Hispanic or Latino	1.1	1.0	1.1	1.9	5.3	6.7	8.1	9.4	8.9
Black, not Hispanic or Latino	1.4	1.7	1.3	1.3	3.5	4.2	5.1	7.3	8.0
Female:									
White	0.2	0.2	0.3	0.4	1.3	1.8	2.3	2.7	2.8
Black or African American	0.3	0.3	0.3	0.3	0.7	1.1	1.3	2.0	2.2
American Indian or Alaska Native	*	*	*	*	1.0	1.2	1.8	2.2	2.3
Asian or Pacific Islander	*	*	*	*	*	*	0.2	0.2	0.2
Hispanic or Latino	0.2	0.1	0.2	0.2	0.5	0.7	0.8	1.1	1.1
White, not Hispanic or Latino	0.2	0.2	0.3	0.5	1.5	2.1	2.7	3.1	3.2
Black, not Hispanic or Latino	0.3	0.3	0.3	0.3	0.7	1.1	1.4	2.0	2.3

* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

¹Drug overdose was coded using underlying cause of death according to the 10th revision of the *International Classification of Diseases* (ICD–10). See Appendix II, Cause of death; Table IV. Drug overdose deaths include those resulting from accidental or intentional overdose of a drug, being given the wrong drug, taking the wrong drug in error, taking a drug inadvertently, or other misuses of drugs. These deaths are from all manners and intents, including unintentional, suicide, homicide, legal intervention, operations of war, and undetermined intent.

²Age-adjusted rates are calculated using the year 2000 standard population with unrounded population numbers. See Appendix II, Age adjustment.

³The race groups white, black, Asian or Pacific Islander, and American Indian or Alaska Native include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for Hispanic, American Indian or Alaska Native, and Asian or Pacific Islander persons should be interpreted with caution because of inconsistencies in reporting Hispanic origin or race on the death certificate (death rate numerators) compared with population figures (death rate denominators). The net effect of misclassification is an underestimation of deaths and death rates for races other than white and black. See Appendix II, Race, for a detailed discussion of sources of bias in death rates by race and Hispanic origin.

⁴Drug overdose deaths involving opioids include those with an underlying cause of drug overdose and with an opioid mentioned in the ICD–10 multiple causes of death. The Any opioid category is defined by multiple cause-of-death codes T40.0–T40.4 and T40.6.

⁵The Natural and semisynthetic opioids category, which includes codeine, oxycodone, and morphine, among other drugs, is defined by multiple cause-of-death code T40.2.

⁶The Other synthetic opioids (other than methadone) category, which includes fentanyl, tramadol, and propoxyphene (removed from the market in 2010), is defined by multiple cause-of-death code T40.4. A sharp increase in deaths involving synthetic opioids, other than methadone, in 2014 coincided with law enforcement reports of increased availability of illicitly manufactured, or nonpharmaceutical, fentanyl. Illicitly manufactured fentanyl cannot be distinguished from pharmaceutical fentanyl in death certificate data. For more information, see the Centers for Disease Control and Prevention's health advisory: Increases in fentanyl drug confiscations and fentanyl-related overdose fatalities. 2015. Available from: <https://emergency.cdc.gov/han/han00384.asp>, and Rudd RA, Aleshire N, Zibbell JE, Gladden M. Increases in drug and opioid overdose deaths—United States, 2000–2014. *MMWR Morb Mortal Wkly Rep* 64(50–51):1378–82. 2016. Available from: https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6450a3.htm?s_cid=mm6450a3_w.

⁷The heroin category is defined by multiple cause-of-death code T40.1. Drug overdose deaths involving heroin include those with an underlying cause of drug overdose and with heroin mentioned in the ICD–10 multiple causes of death. Metabolic breakdown of heroin into morphine in the body can make it difficult to distinguish between deaths from heroin and deaths from morphine based on the information on the death certificate. Some deaths reported to involve morphine could be deaths from heroin. This may result in an undercount of heroin-related deaths. For more information, see Hedegaard H, Chen LH, Warner M. Drug-poisoning deaths involving heroin: United States, 2000–2013. *NCHS Data Brief*, no 190. Hyattsville, MD: National Center for Health Statistics. 2015. Available from: <https://www.cdc.gov/nchs/data/databriefs/db190.htm>.

NOTES: Drug overdose deaths may involve multiple drugs. Deaths involving multiple drugs, for example heroin and oxycodone, are included in the death rate for natural and semisynthetic opioids and the death rate for heroin. For more information on the type of drugs commonly involved in drug overdose deaths, in addition to the use of literal text from the death certificate to enhance mortality statistics, see: Hedegaard H, Bastian BA, Trinidad JP, Spencer M, Warner M. Drugs most frequently involved in drug overdose deaths: United States, 2011–2016. *National Vital Statistics Reports*; vol 67 no 9. Hyattsville, MD: National Center for Health Statistics. 2018. Available from: https://www.cdc.gov/nchs/data/nvsr/nvsr67/nvsr67_09-508.pdf. In 1999–2017, 12%–25% of drug overdose deaths did not include specific information on the death certificate on the type of drug that was involved. For more information, see: Hedegaard H, Miniño AM, Warner M. Drug overdose deaths in the United States, 1999–2017. *NCHS Data Brief*, no 329. Hyattsville, MD: National Center for Health Statistics. 2018. Available from: <https://www.cdc.gov/nchs/products/databriefs/db329.htm>. Rates for 1999 were computed using intercensal population estimates based on the 1990 and 2000 Censuses. Rates for 2000 were computed based on 2000 bridged-race April 1 census counts. Starting with *Health, United States, 2012*, rates for 2001–2009 were revised using intercensal population estimates based on the 2000 and 2010 Censuses. Rates for 2010 were based on 2010 bridged-race April 1 census counts. Rates for 2011 and beyond were computed using 2010-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. For additional injury-related statistics, see the Web-based Injury Statistics Query and Reporting System (WISQARS), available from: <https://www.cdc.gov/injury/wisqars/index.html>. Starting with 2003 data, some states allowed the reporting of more than one race on the death certificate. The multiple-race data for these states were bridged to the single-race categories of the 1977 Office of Management and Budget standards, for comparability across the trend. See Appendix II, Race. Data for additional years are available. See the Excel spreadsheet on the *Health, United States* website at: <https://www.cdc.gov/nchs/hus.htm>.

SOURCE: NCHS, National Vital Statistics System; numerator data from National Vital Statistics System, annual public-use Mortality Files; denominator data from national population estimates for race groups from Table 1; Kochanek KD, Murphy SL, Xu JQ, Arias E. Deaths: Final data for 2017. *National Vital Statistics Reports*. Hyattsville, MD: National Center for Health Statistics. 2019. Available from: <https://www.cdc.gov/nchs/products/nvsr.htm>. See Appendix I, National Vital Statistics System (NVSS).