

Fatal Unintentional Poisoning Surveillance System: Data Update

Oklahoma State Department of Health
Injury Prevention Service



Background

Poisoning

- Ingestion, inhalation, absorption, or contact with a substance resulting in a toxic effect or bodily harm.

Unintentional

- Individual did not intend harm to themselves or someone else
- May intentionally take a drug, but did not intend to harm themselves

Inclusion/Exclusion

Review all incoming ME reports

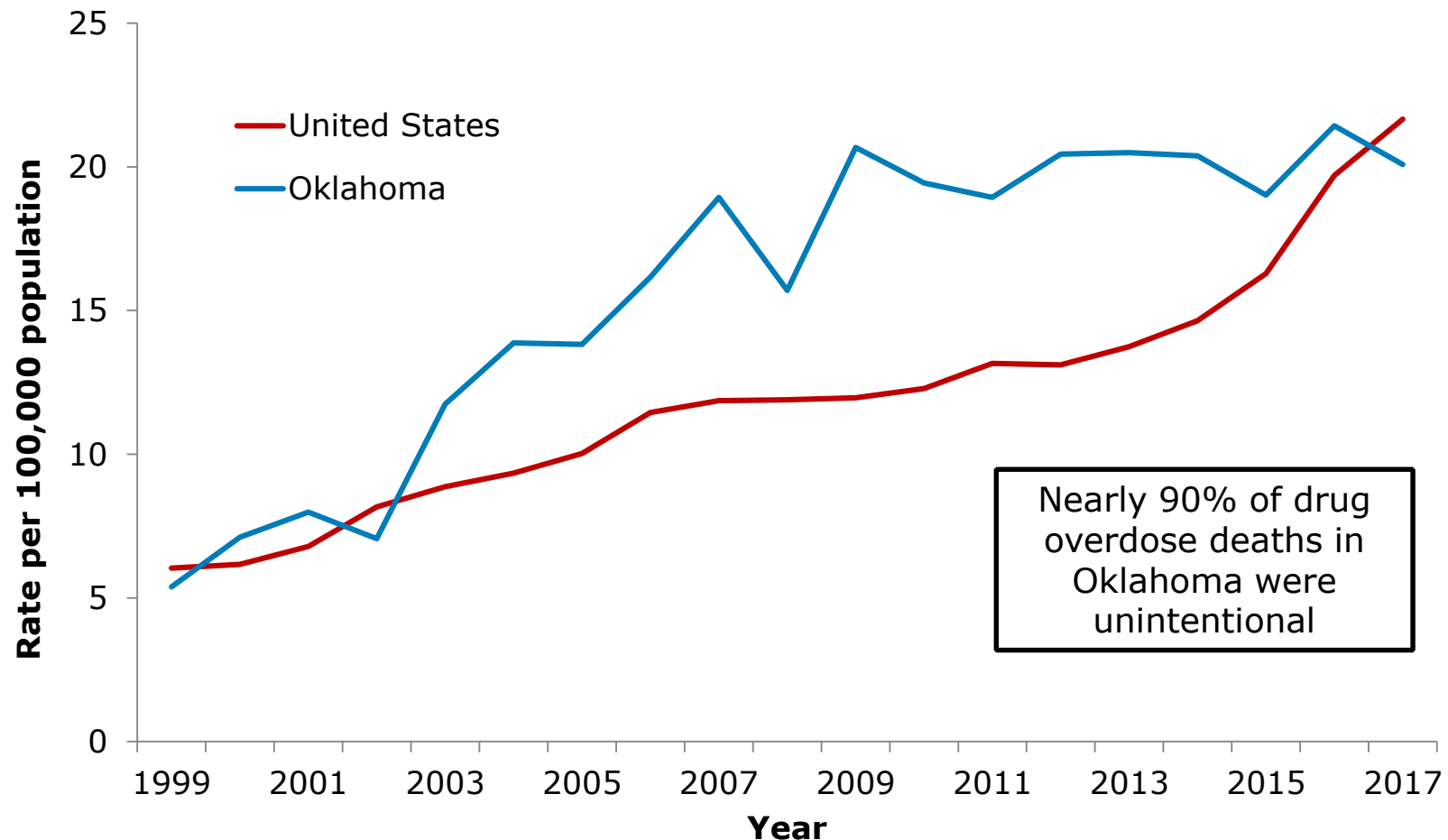
Include:

- Manner – Accident
- Poisoning in cause of death
- OK resident

Exclude:

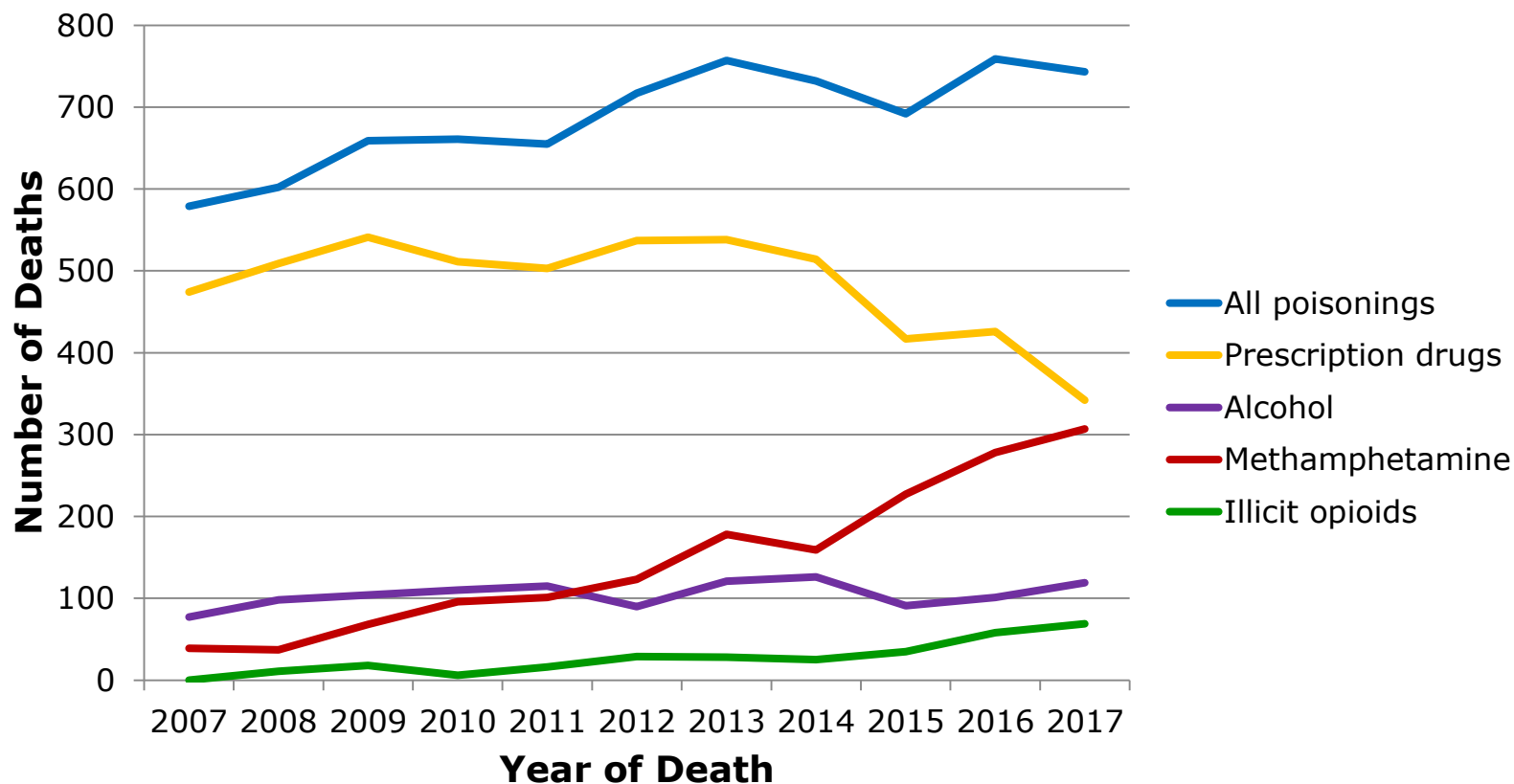
- Adverse allergy/hypersensitivity reaction
- Correct drugs, properly administered, correct dose
- Venomous plants and animals (not ingested)
- Bacterial food poisoning
- Smoke inhalation
- Injury consequences of substance abuse

Age-adjusted Drug Overdose Death Rates (All Intent), Oklahoma and the United States, 1999-2017



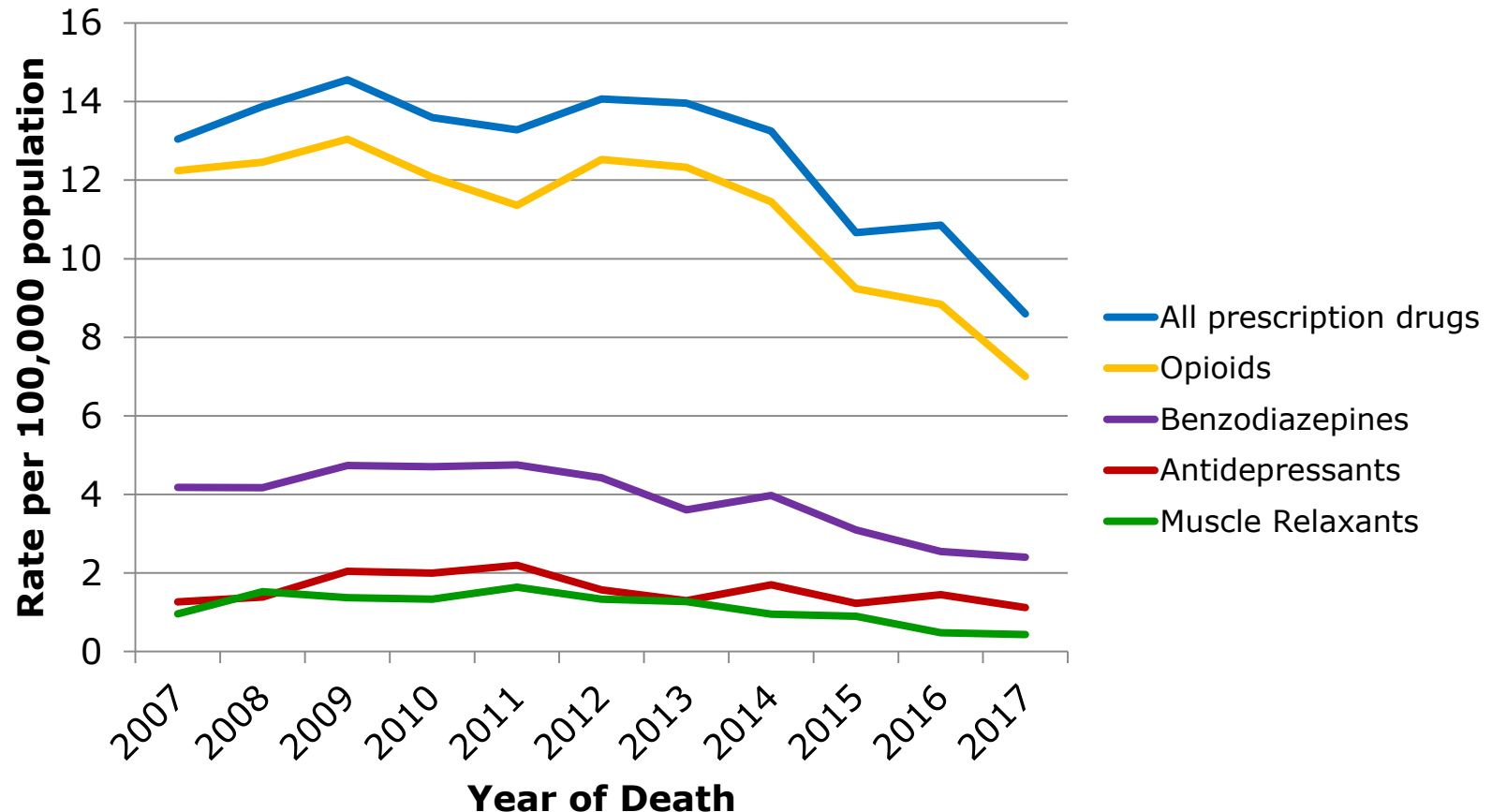
Source: CDC, National Center for Health Statistics, WONDER Multiple Cause of Death File

Deaths Involving Prescription Drugs, Illicit Drugs, or Alcohol by Year of Death, Unintentional Poisoning, Oklahoma, 2007-2017



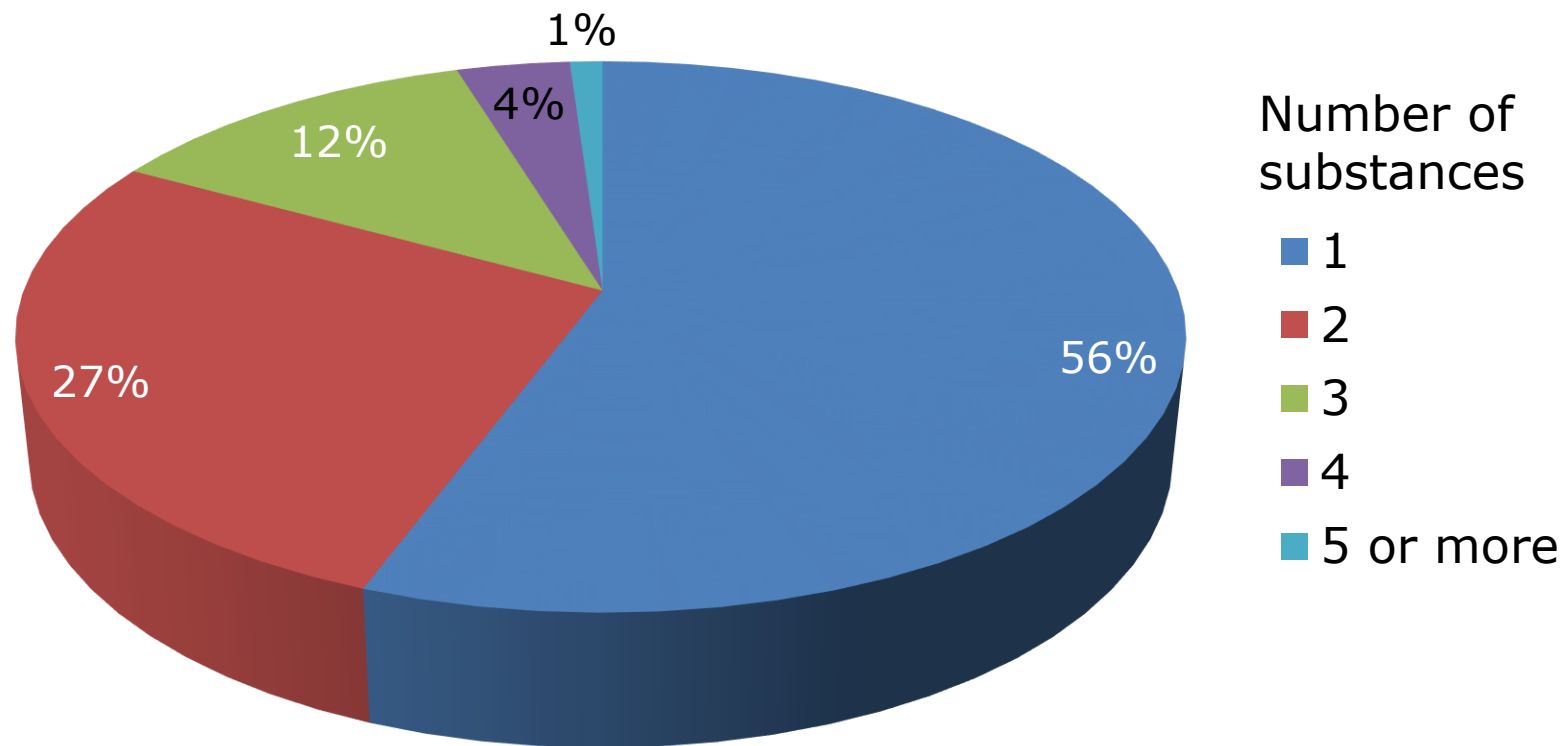
Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System
(Abstracted from Medical Examiner reports)

Deaths Involving Most Common Prescription Drug Categories by Year of Death, Unintentional Poisoning, Oklahoma, 2007-2017



Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System
(Abstracted from Medical Examiner reports)

Number of Substances Involved in Unintentional Poisoning Deaths, Oklahoma, 2013-2017



Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System
(Abstracted from Medical Examiner reports)

Unintentional Poisoning Deaths Involving Prescription Drugs, Illicit Drugs, or Alcohol by Year of Death, Oklahoma, 2007-2017

Drug	Number of deaths											
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
All UP	579	602	659	661	655	717	757	732	692	759	743	7556
Prescription	474	509	541	511	503	537	538	514	417	426	342	5312
Prescription opioids	445	457	485	454	430	478	475	444	361	347	277	4653
Anti-anxiety	152	153	176	177	180	169	139	154	121	100	95	1616
Alcohol	77	98	104	110	115	90	121	126	91	101	119	1152
Methamphetamine	39	37	68	96	101	123	178	157	227	278	307	1613
Illicit opiates	*	11	18	*	16	29	28	25	35	58	69	295

Drug	Death rates per 100,000 population											
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
All UP	15.9	16.4	17.7	17.6	17.3	18.8	19.7	18.9	17.7	19.3	18.8	
Prescription	13.0	13.9	14.6	13.6	13.3	14.1	14.0	13.3	10.7	10.9	8.6	
Prescription opioids	12.2	12.5	13.0	12.1	11.4	12.5	12.3	11.5	9.2	8.8	7.0	
Anti-anxiety	4.2	4.2	4.7	4.7	4.8	4.4	3.6	4.0	3.1	2.5	2.4	
Alcohol	2.1	2.7	2.8	2.9	3.0	2.4	3.1	3.2	2.3	2.6	3.0	
Methamphetamine	1.1	1.0	1.8	2.6	2.7	3.2	4.6	4.0	5.8	7.1	7.8	
Illicit opiates	*	0.3	0.5	0.2	0.4	0.8	0.7	0.7	1	1.5	1.8	

*Data suppressed due to small number of deaths

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

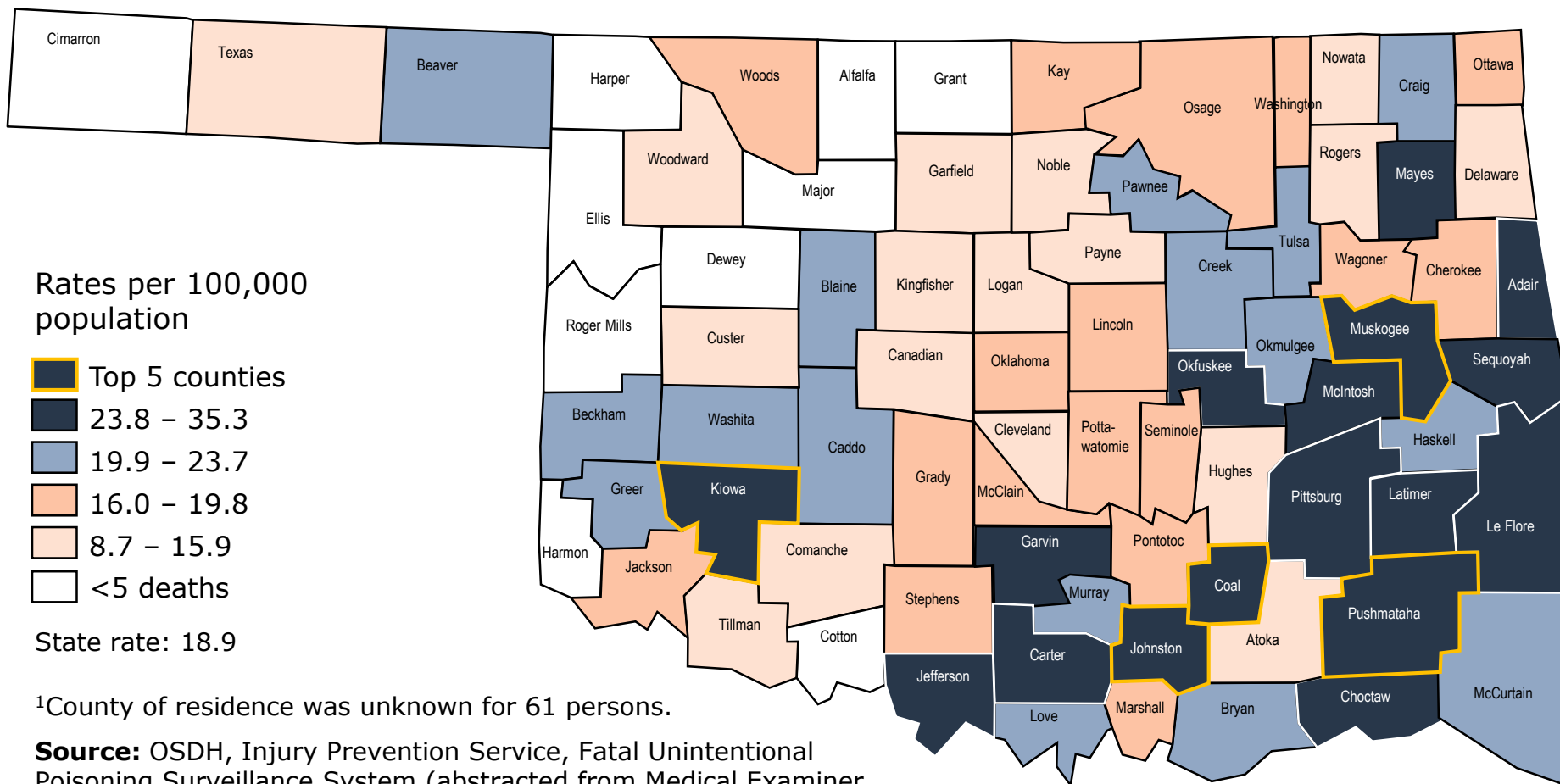
Most Common Substances by Year of Death, Oklahoma, 2007-2017

Drug	Number of deaths											Total
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Hydrocodone	118	116	133	141	127	152	155	145	103	78	60	1328
Oxycodone	115	121	129	135	130	161	165	158	130	126	84	1454
Alprazolam	131	114	134	133	109	112	91	102	83	64	60	1133
Methadone	171	117	100	91	69	80	73	63	58	45	29	896
Morphine	60	80	75	72	94	82	86	77	56	57	53	792
Fentanyl	44	56	77	51	48	57	62	39	53	68	54	609
Diazepam	24	32	41	40	44	31	29	38	26	28	20	353
Alcohol	77	98	104	110	115	90	121	126	91	101	118	1151
Methamphetamine	39	37	68	96	101	123	178	157	227	278	307	1611
Heroin	*	11	18	*	16	29	28	25	33	52	55	273

*Data suppressed due to small number of deaths

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

Unintentional Poisoning Death Rates by County of Residence¹, Oklahoma, 2013-2017

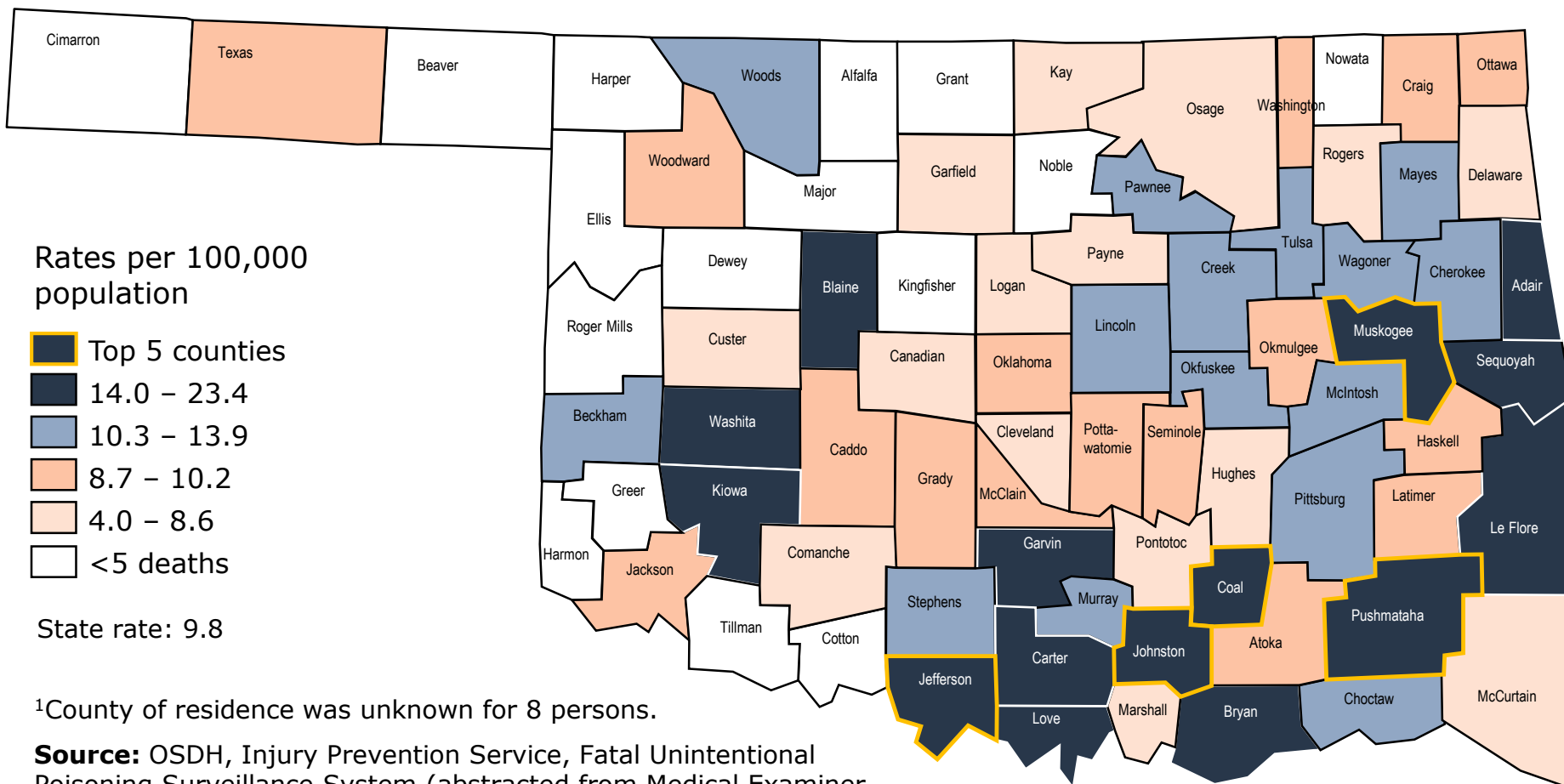


¹County of residence was unknown for 61 persons.

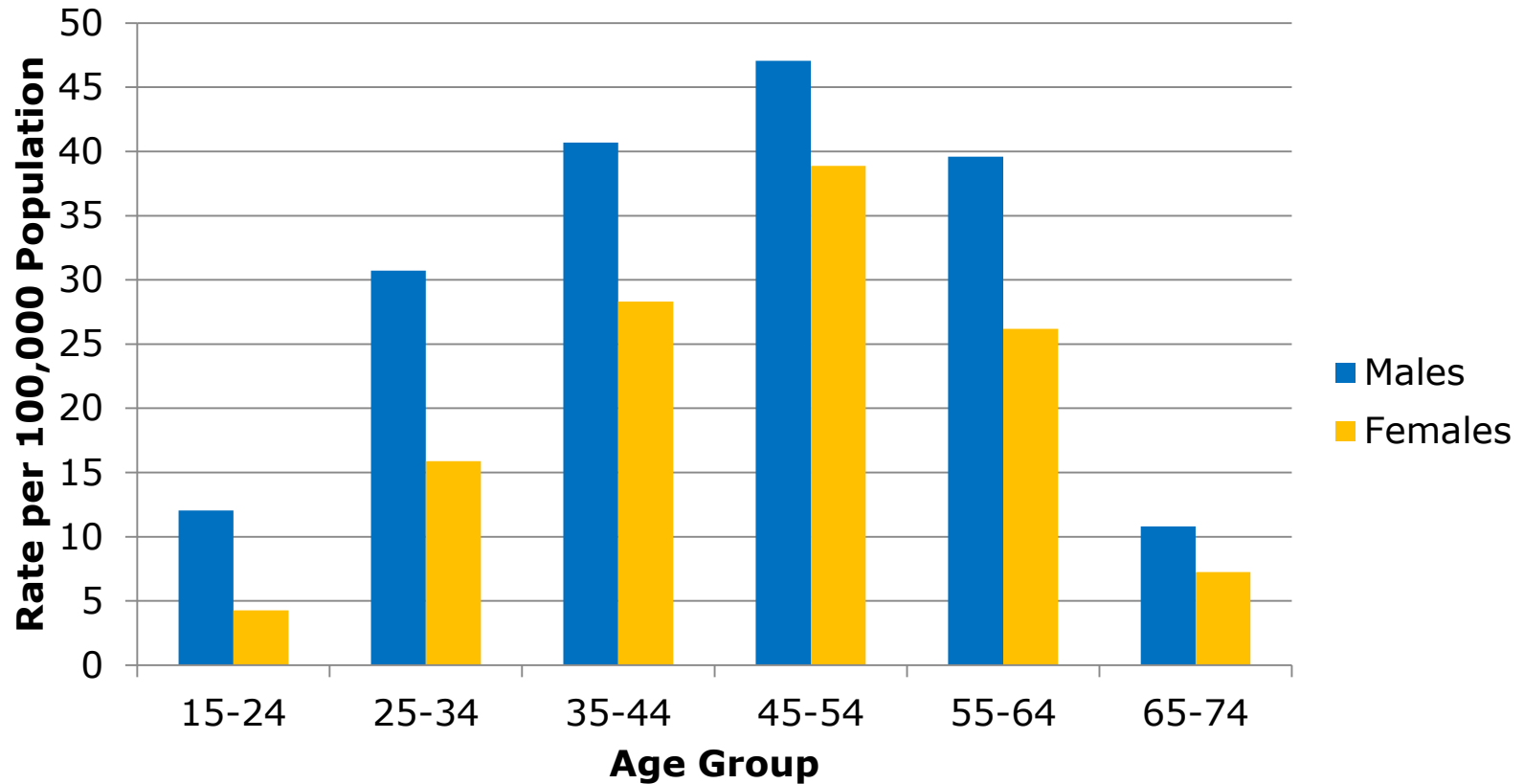
Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (abstracted from Medical Examiner reports)

Some rates are based on small numbers and may be unstable

Unintentional Prescription Opioid Overdose Death Rates by County of Residence¹, Oklahoma, 2013-2017



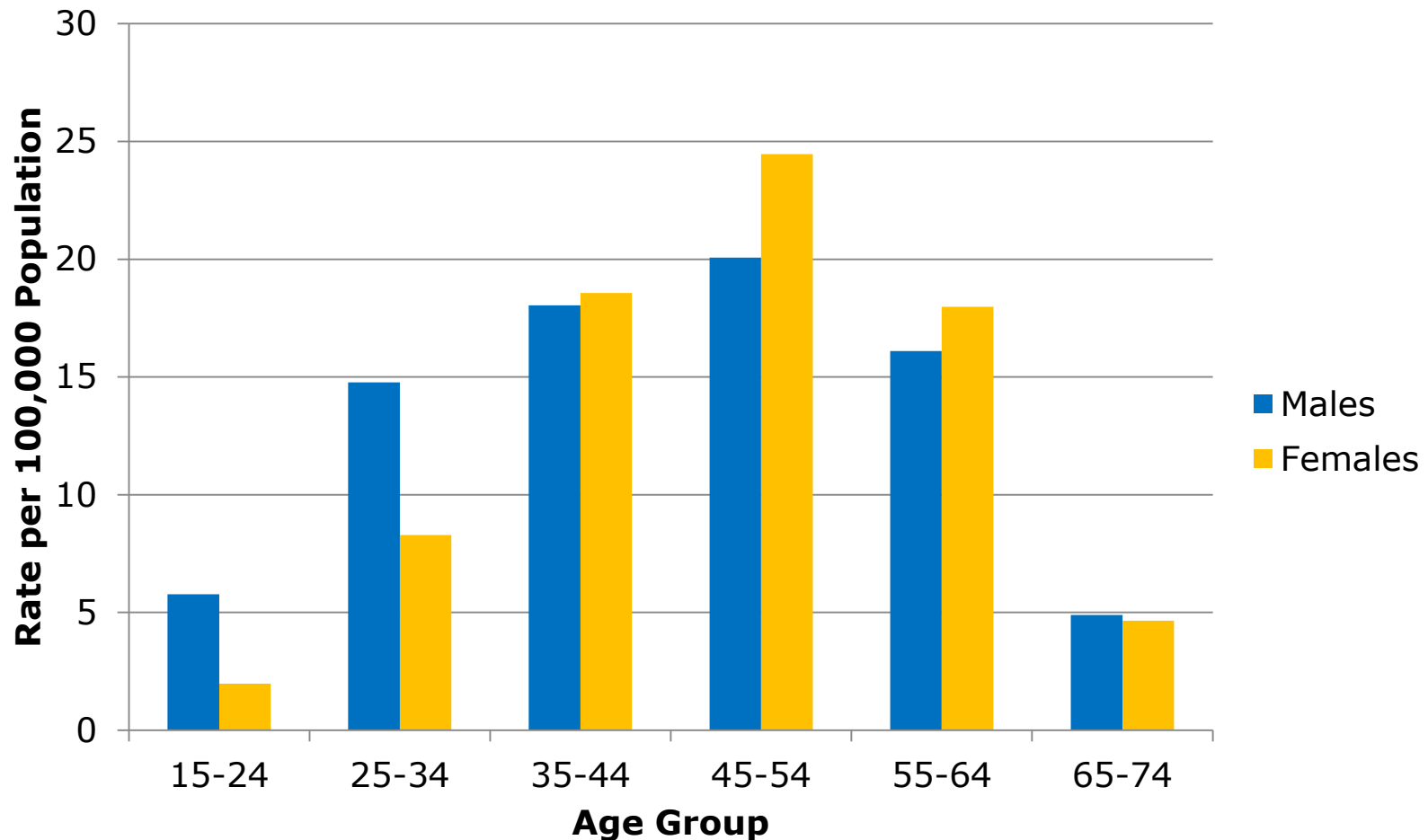
Unintentional Poisoning Death Rates by Age Group* and Gender, Oklahoma, 2013-2017



*Decedents under age 15 and over age 74 were excluded due to small number of cases (<1% of all UP deaths)

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

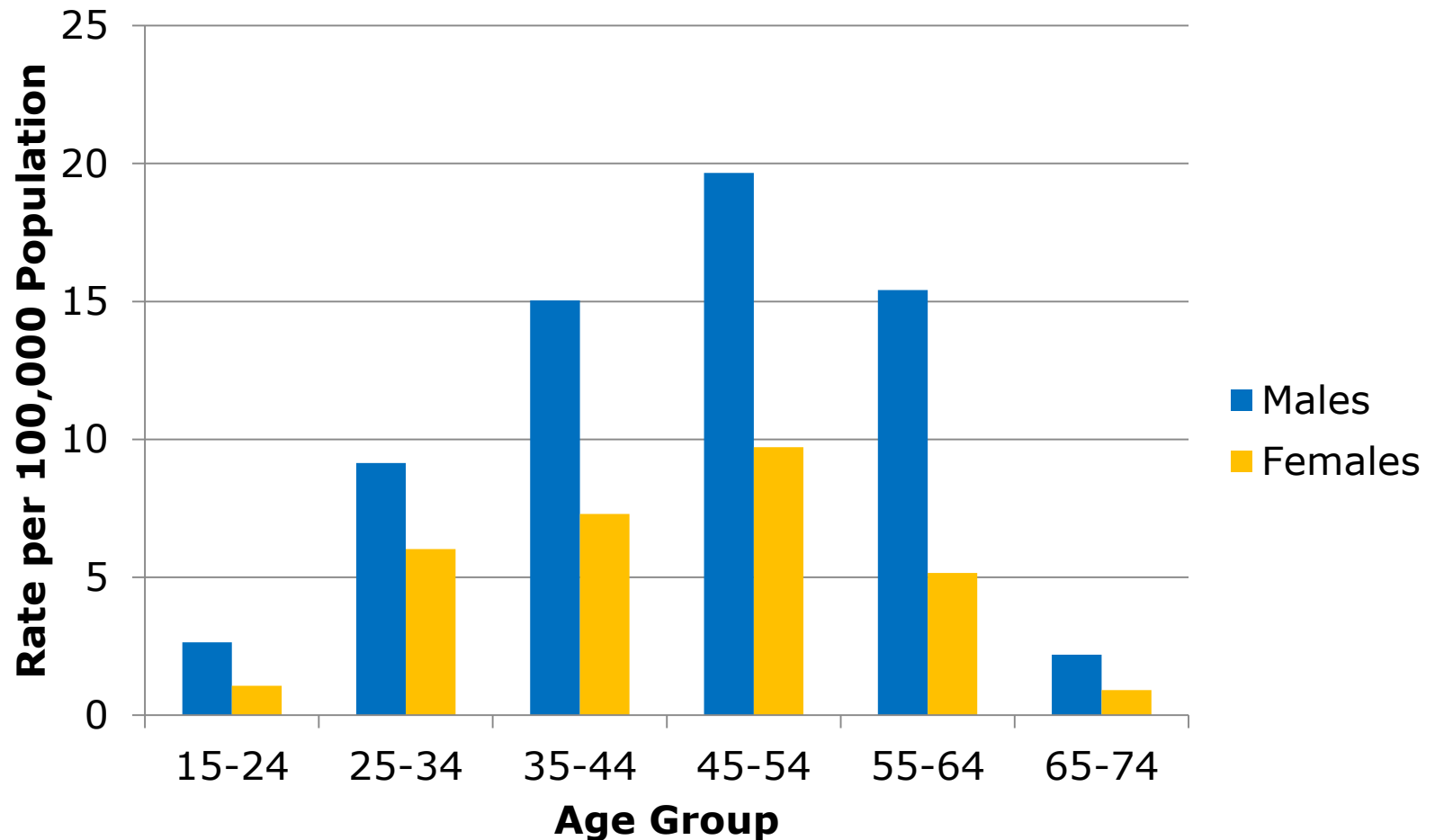
Unintentional Prescription Opioid Overdose Death Rates by Age Group* and Gender, Oklahoma, 2013-2017



*Decedents under age 15 and over age 74 were excluded due to small number of cases (<1% of all UP deaths)

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

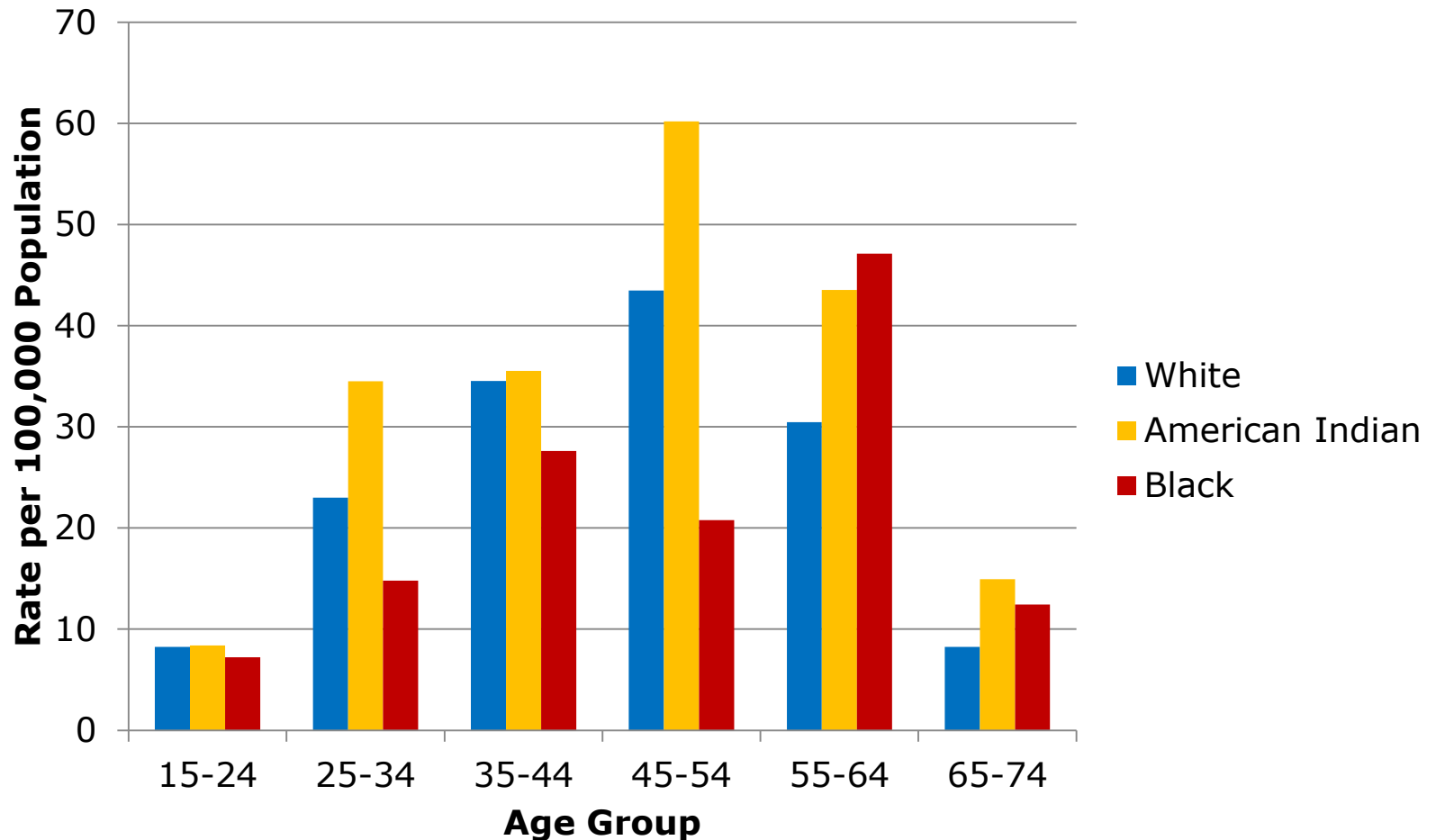
Unintentional Methamphetamine Overdose Death Rates by Age Group* and Gender, Oklahoma, 2013-2017



*Decedents under age 15 and over age 74 were excluded due to small number of cases (<1% of all UP deaths)

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

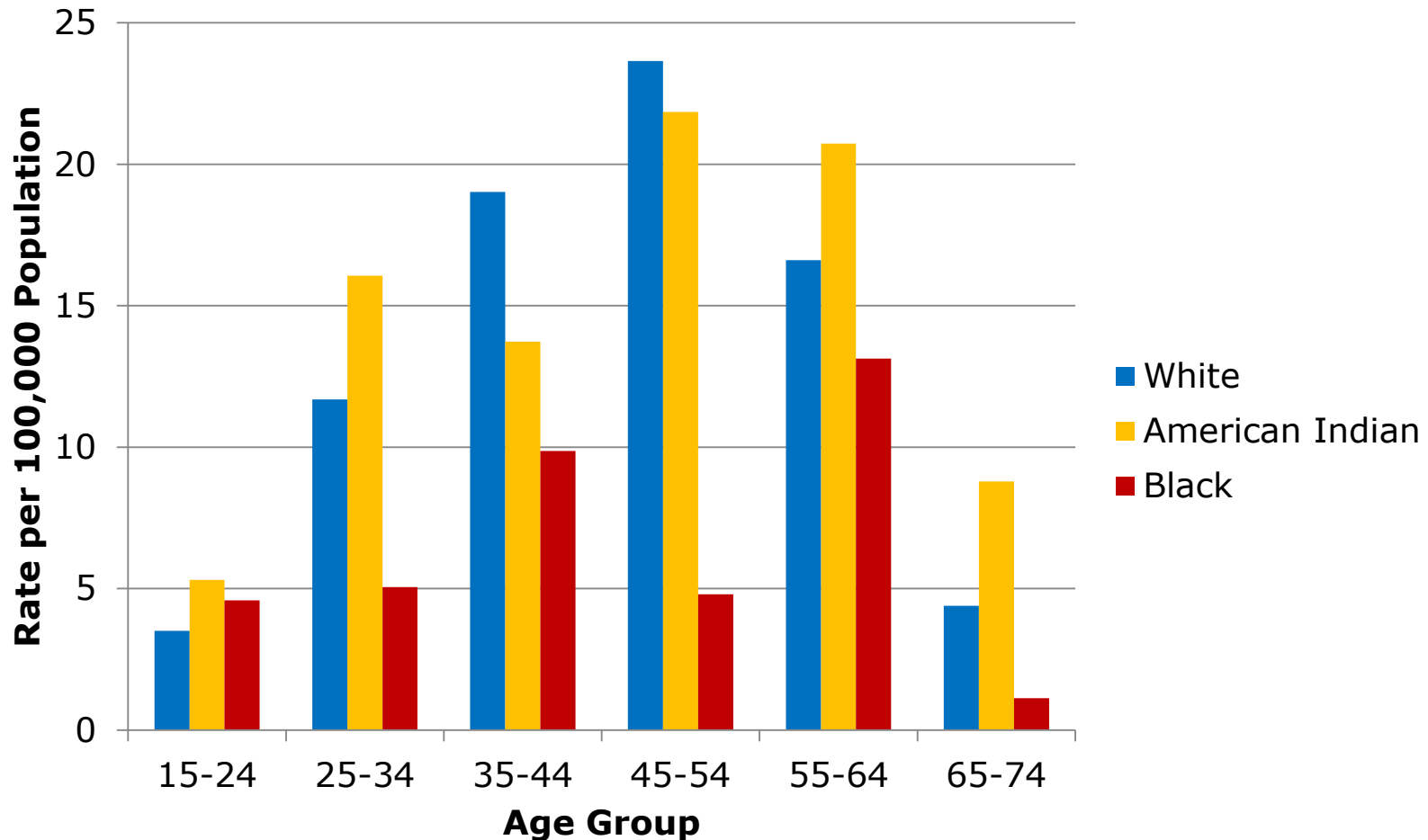
Unintentional Poisoning Death Rates by Age Group* and Race, Oklahoma, 2013-2017



*Decedents under age 15 and over age 74 were excluded due to small number of cases (<1% of all UP deaths)

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

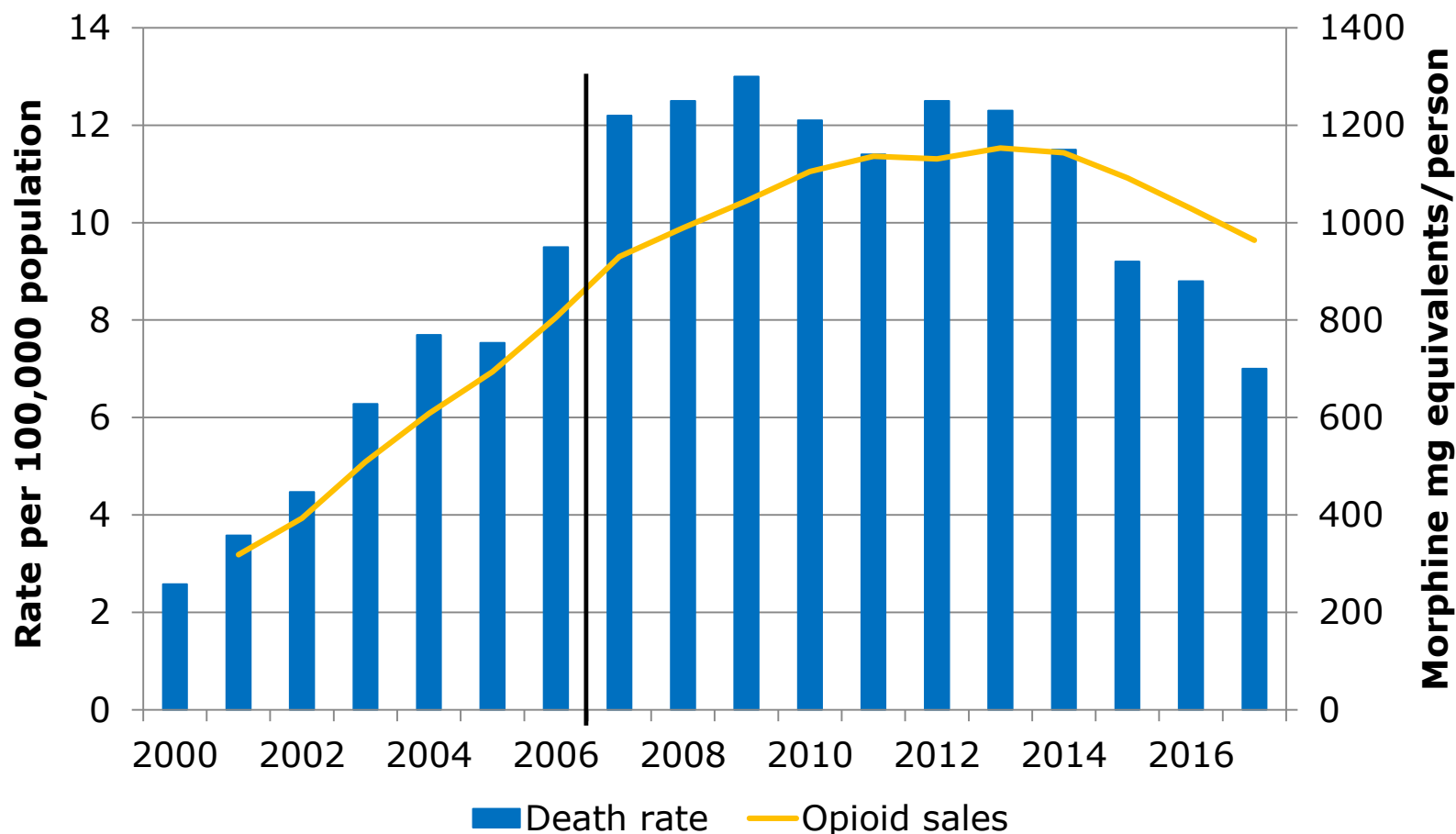
Unintentional Prescription Opioid Overdose Death Rates by Age Group* and Race, Oklahoma, 2013-2017



*Decedents under age 15 and over age 74 were excluded due to small number of cases (<1% of all UP deaths)

Source: OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

Unintentional Opioid-related Overdose Death Rates¹ and Opioid Sales per Person², Oklahoma, 2000-2017



¹OSDH, Injury Prevention Service, Fatal Unintentional Poisoning Surveillance System (Abstracted from Medical Examiner reports)

²U.S. Department of Justice, Drug Enforcement Administration, Office of Diversion Control, Automation of Reports and Consolidated Orders System (ARCOS) Reports, Retail Drug Summary Reports by State, Cumulative Distribution Reports (Report 4).

The black line indicates a change: opioid sales data prior to 2007 were based on historical data calculated using the same methodology.

Questions?

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