

Nevada Opioid Surveillance

2010 - 2015



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Emergency Department Encounters and Inpatient Visits

Data Source: Division of Public and Behavioral Health, Hospital Inpatient and Emergency Department Billing Data.

Data Provided by: Center for Health Information Analysis.

In October 2015, ICD-10-CM codes were implemented. Previous to October 2015, ICD-9-CM codes were used for medical billing. Therefore, 2015 data consists of two distinct coding schemes, ICD-9-CM and ICD-10-CM respectively. Due to this change in coding schemes, hospital billing data from October 2015 forward may not be directly comparable to previous data.

In 2015, quarter 4, the ICD-10-CM codes were implemented. This includes codes for long term current use of an opiate and for opiate in the blood, neither of which existed in the ICD-9-CM codes. This may account for the increase in 2015.

Prior to December 2016, OPHIE commonly used only one parameter for Nevada Residents, Patient State (Patient State = NV). OPHIE recently added a new layer to the parameter of including only Nevada zip codes (Patient zip code 89%) therefore the counts may be slightly smaller from previous reports.

The following ICD Codes are included in these data:

All Diagnosis

Opioid Dependence

304.0 Opioid type dependence ICD-9-CM

F11.2 Opioid dependence ICD-10-CM

Opiate and Other Dependence

304.7 Combinations of opioid type drug with any other drug dependence ICD-9-CM

Nondependent Opioid Abuse

305.5 Nondependent opioid abuse ICD-9-CM

F11.1 Opioid abuse ICD-10-CM

Other Opioid Related Codes

F11.9 Opioid use, unspecified ICD-10-CM

External Poisoning

E850.0-E850.2 Accidental poisoning by heroin, methadone, and other opiates ICD-9-CM

Principal Diagnosis

Opiate Poisoning

965.0 Poisoning by opiates and related narcotics ICD-9-CM

T40.0 Poisoning by, adverse effect of and underdosing of opium ICD-10-CM

T40.1 Poisoning by and adverse effect of heroin ICD-10-CM

T40.2 Poisoning by, adverse effect of and underdosing of other opioids ICD-10-CM

T40.3 Poisoning by, adverse effect of and underdosing of methadone ICD-10-CM

T40.4 Poisoning by, adverse effect of and underdosing of other synthetic narcotics ICD-10-CM

T40.6 Poisoning by, adverse effect of and underdosing of other and unspecified narcotics ICD-10-CM

Deaths

**Data are preliminary and are subject to changes.*

Data Source: Division of Public and Behavioral Health, Electronic Death Registry System.

Deaths with any of the following ICD-10 codes as an underlying cause of death were first selected:

X40-X44 Accidental poisonings by drugs

X60-X64 Intentional self poisoning by drugs

X85 Assault by drug poisoning

Y10-Y14 Drug poisoning of undetermined intent

The following axis (contributing causes of death) ICD-10 Codes are included in these data:

T40.0 Opium~

T40.1 Heroin

T40.2 Natural and semi-synthetic opioids

T40.3 Methadone

T40.4 Synthetic opioids

T40.6 Other and unspecified opioids

T42.4 Benzodiazepine

~Opium was included in analysis, since there have been 0 deaths related to opium it is not included in the tables and charts.

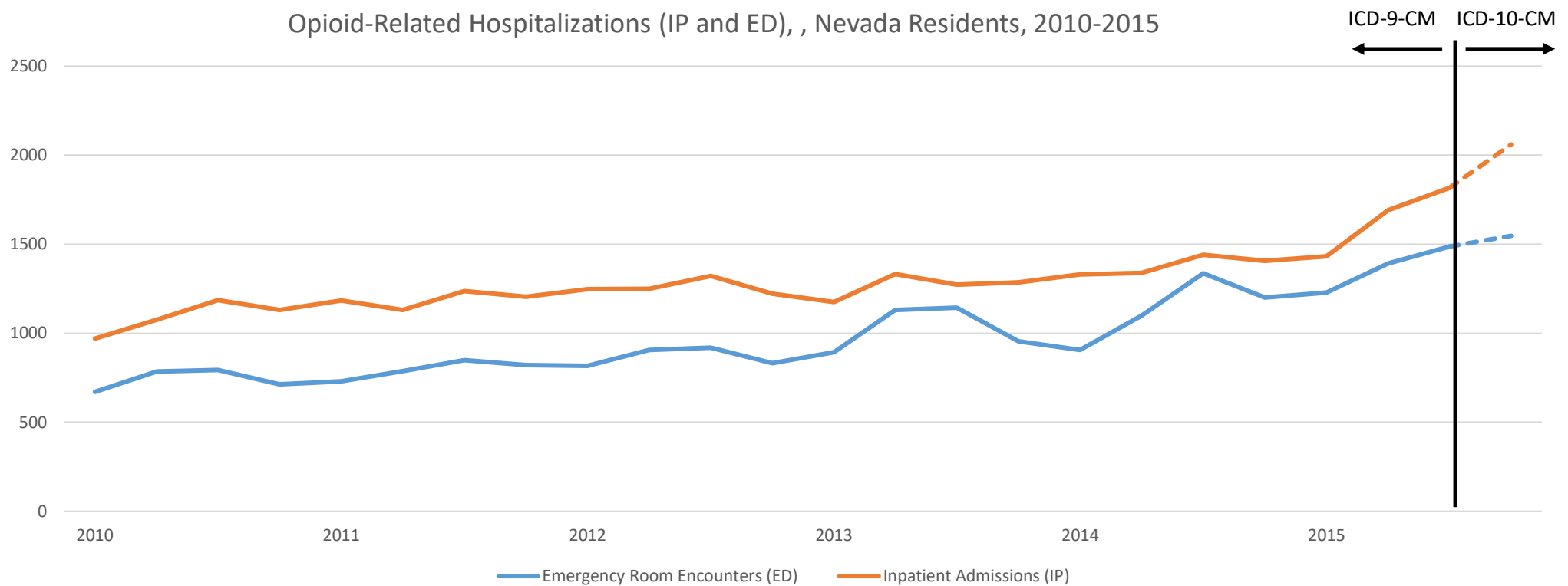
Opioid-Related Hospital Data, Nevada Residents, 2010-2015

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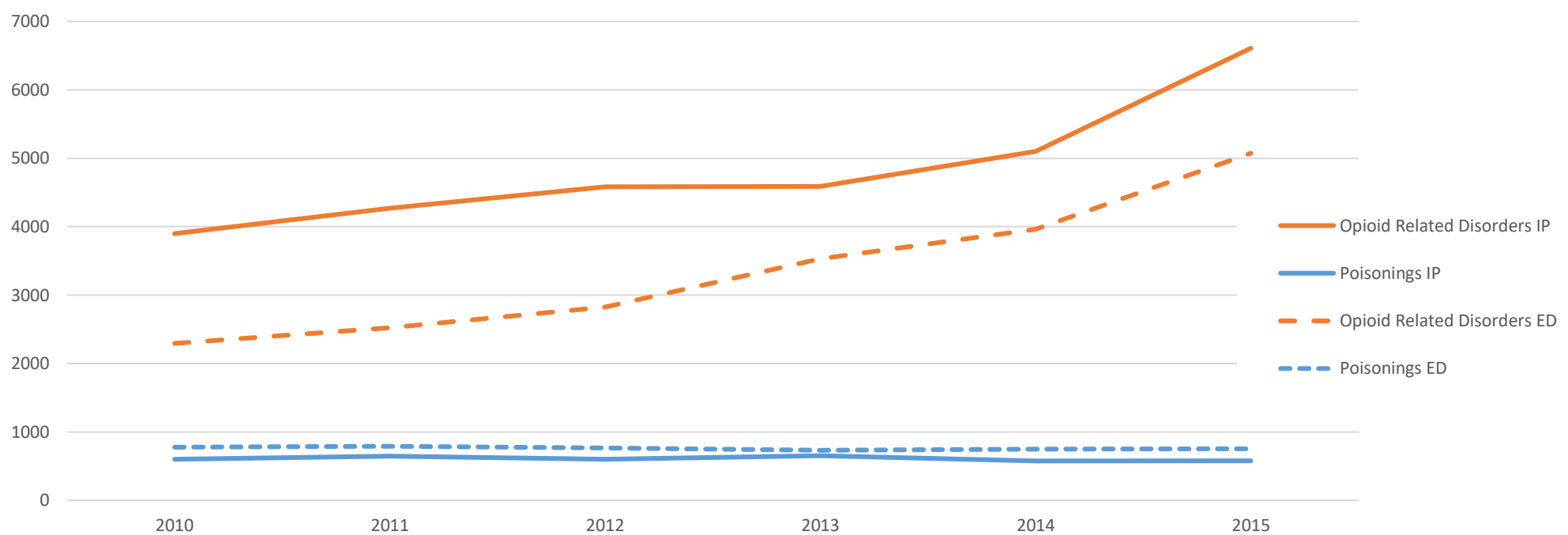
Year	Emergency Room Encounters (ED)	Emergency Room Crude Rates	Percent Change	Inpatient Admissions (IP)	Inpatient Crude Rates	Percent Change
2010	2,963	109.5		4,362	161.2	
2011	3,188	117.1	7%	4,755	174.7	8%
2012	3,473	126.3	8%	5,042	183.3	5%
2013	4,122	147.2	17%	5,067	180.9	-1%
2014	4,543	159.8	9%	5,517	194.0	7%
2015	5,654	196.7	23%	7,002	243.6	26%
Percent Change 2010-2015			80%			51%

Rates are per 100,000 Nevada Population.

[^]In 2015, quarter 4, the ICD-10-CM codes were implemented. This includes codes for long term current use of an opiate and for opiate in the blood, neither of which existed in the ICD-9-CM codes. This may account for the increase in 2015.



Opioid-Related Hospitalizations (ED and IP), by ICD Group, Nevada Residents, 2010-2015



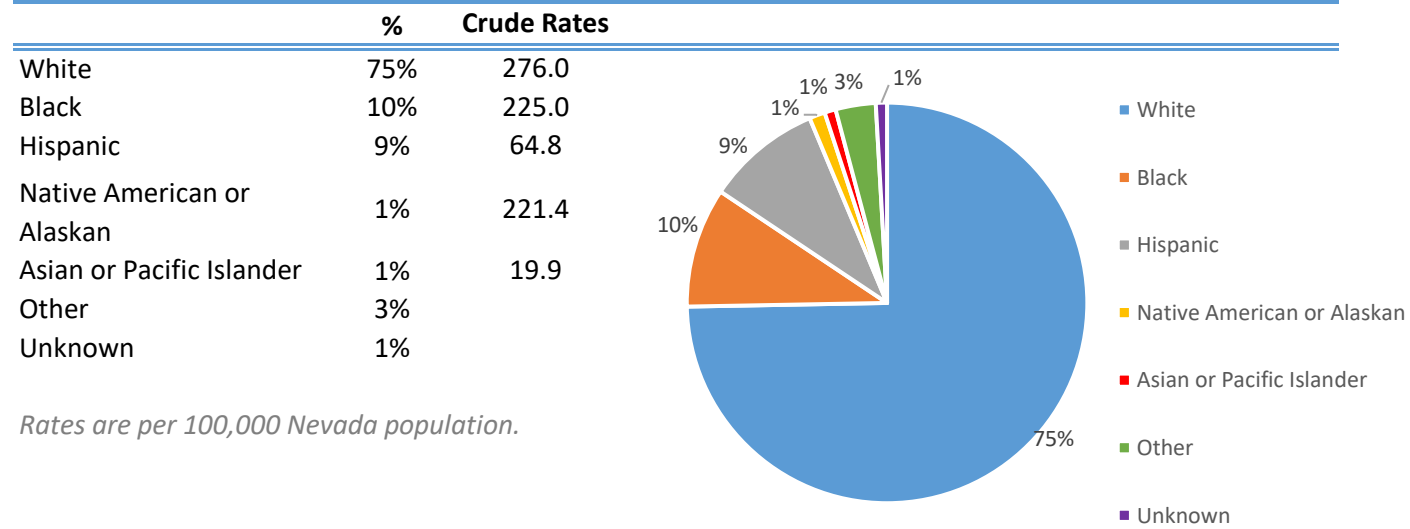
A person can be included in more than one drug group, and therefore the counts above are not mutually exclusive.

Opioid-Related Hospitalization (Inpatient) Visits by Length of Stay (Days), Nevada

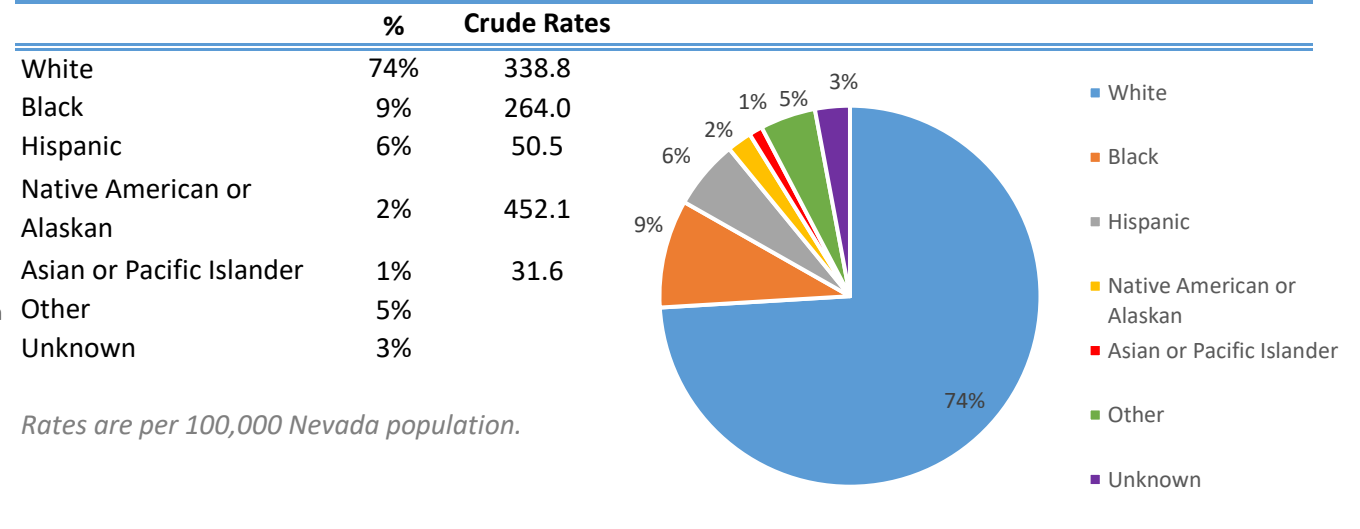
Year	0-1	2-4	5-9	10-14	15-19	20-24	25+
2010	648	1,833	1,158	380	132	97	114
2011	691	1,977	1,339	403	132	74	139
2012	670	1,953	1,531	467	160	102	159
2013	754	1,952	1,483	411	192	111	164
2014	740	2,124	1,604	505	215	111	218

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Opioid-Related Emergency Department Encounters by Race/Ethnicity, Nevada Residents, 2015



Opioid-Related Inpatient Admissions by Race/Ethnicity, Nevada Residents, 2015



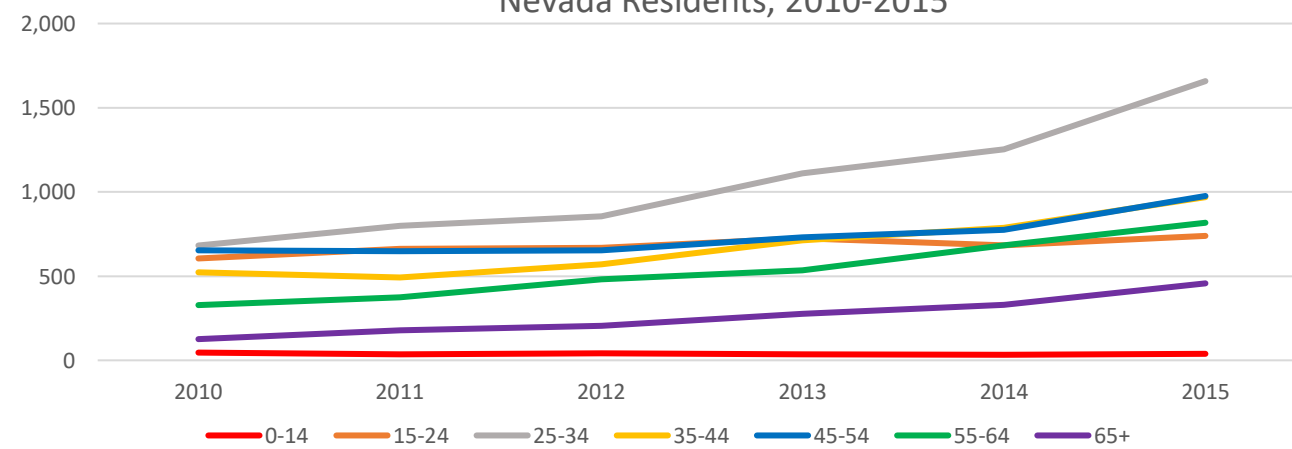
Opioid-Related Emergency Department Encounters by Age Group, Nevada Residents, 2010-2015

Year	0-14	15-24	25-34	35-44	45-54	55-64	65+
2010	46	605	682	522	654	328	126
2011	37	661	798	492	648	375	177
2012	42	669	855	569	653	481	204
2013	35	726	1,109	712	731	534	275
2014	33	683	1,253	786	776	683	329
2015	38	739	1,658	969	976	817	457

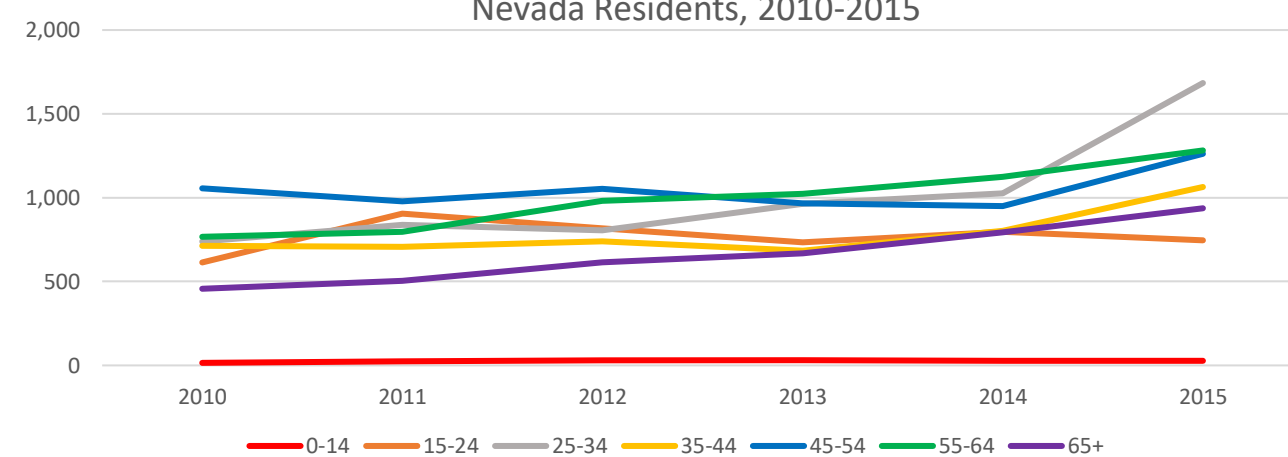
Opioid-Related Inpatient Admissions by Age Group, Nevada Residents, 2010-2015

Year	0-14	15-24	25-34	35-44	45-54	55-64	65+
2010	15	614	739	713	1,057	767	457
2011	25	905	837	708	979	796	505
2012	29	818	806	740	1,052	981	616
2013	31	733	963	684	967	1,022	667
2014	26	796	1,025	802	950	1,125	793
2015	26	747	1,684	1,064	1,262	1,282	937

Opioid-Related Emergency Department Encounters by Age Group, Nevada Residents, 2010-2015

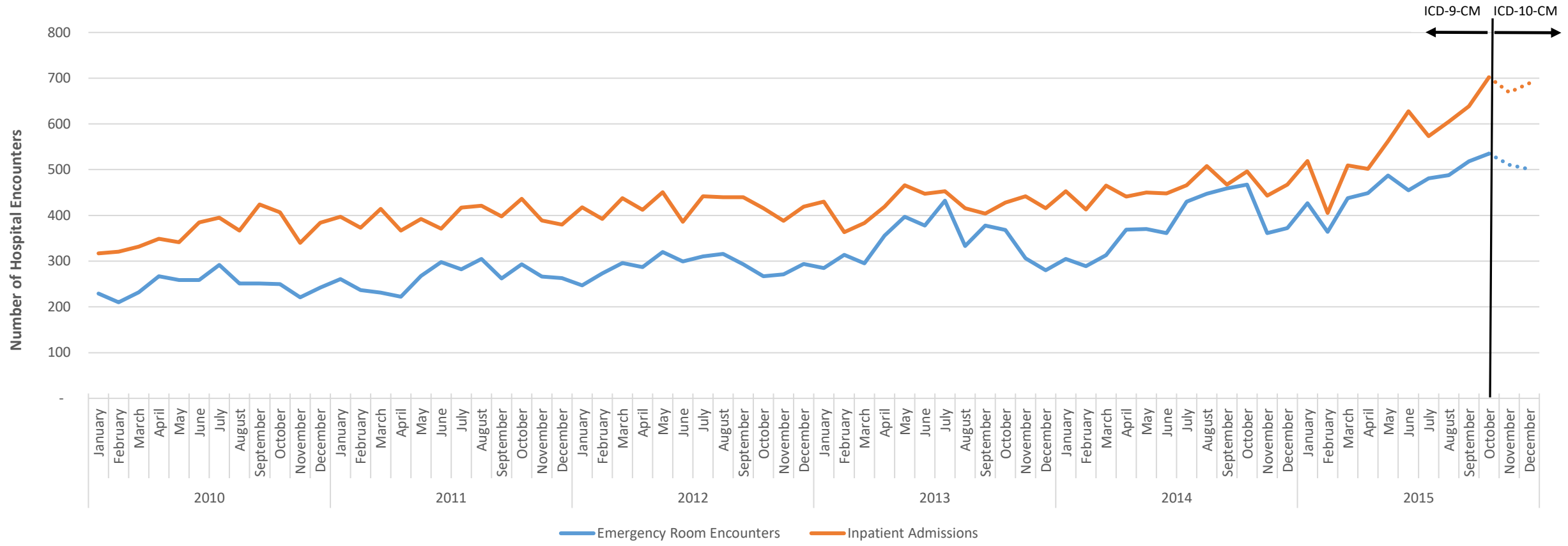


Opioid-Related Inpatient Admissions by Age Group, Nevada Residents, 2010-2015



Opioid-Related Hospital Data, Nevada Residents, 2010-2015

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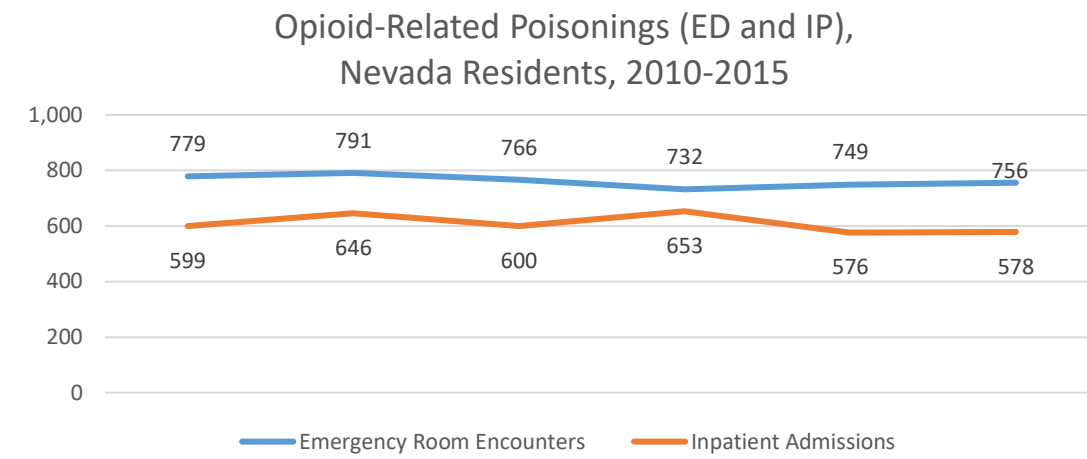
Opioid-Related Poisonings - Emergency Department Encounters and Inpatient Hospital Admissions, Nevada Residents, 2010-2015

In October 2015, ICD-10-CM codes were implemented. Previous to October 2015, ICD-9-CM codes were used for medical billing. Therefore, 2015 data consists of two distinct coding schemes, ICD-9-CM and ICD-10-CM respectively. Due to this change in coding schemes, hospital billing data from October 2015 forward may not be directly comparable to previous data.

Opioid-related poisoning is a subset of the opioid -related hospitalization data. The following ICD-9-CM/ICD-10-CM for poisoning include the principal diagnosis: 965.0 ICD-9, T40.0-T40.4, and T40.6 ICD-10.

Year	Emergency Room Encounters	Emergency Room Crude Rates	Percent Change	Inpatient Admissions	Inpatient Crude Rates	Percent Change
2010	779	28.8		599	22.1	
2011	791	29.1	1%	646	23.7	7%
2012	766	27.9	-4%	600	21.8	-8%
2013	732	26.1	-6%	653	23.3	7%
2014	749	26.3	1%	576	20.3	-13%
2015	756	26.3	0%	578	20.1	-1%
Percent Change 2010-2015			-9%	-9%		

Rates are per 100,000 Nevada population



Opioid-Related Poisonings - Emergency Department Encounters, Nevada Residents, 2010-2015

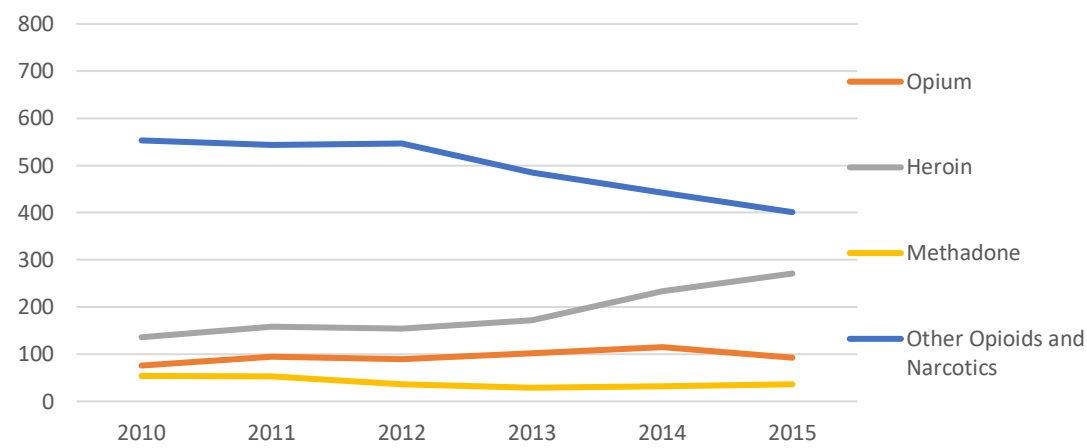
Year	Opium	Heroin	Methadone	Other Opioids and Narcotics
2010	76	136	54	553
2011	95	158	53	543
2012	89	154	36	547
2013	102	172	29	485
2014	115	233	32	442
2015	93	271	36	401

Opioid-Related Poisonings - Inpatient Admissions, Nevada Residents, 2010-2015

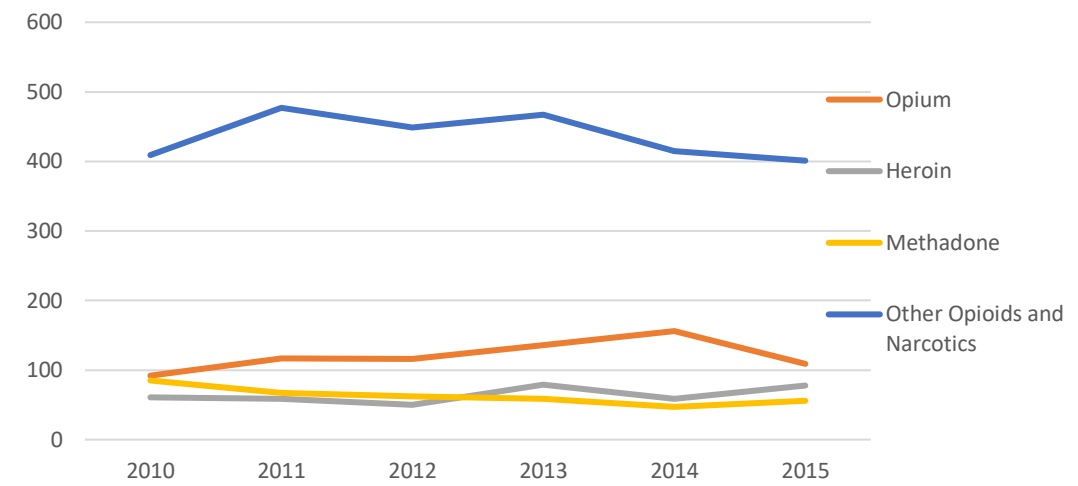
Year	Opium	Heroin	Methadone	Other Opioids and Narcotics
2010	92	61	85	409
2011	117	59	67	477
2012	116	50	62	449
2013	136	79	59	467
2014	156	59	47	415
2015	109	78	56	401

A person can be included in more than one druagroup, and therefore the counts above are not mutually exclusive.

Opioid-Related Poisonings - Emergency Department Encounters, Nevada Residents, 2010-2015



Opioid-Related Poisonings - Inpatient Admissions, Nevada Residents, 2010-2015



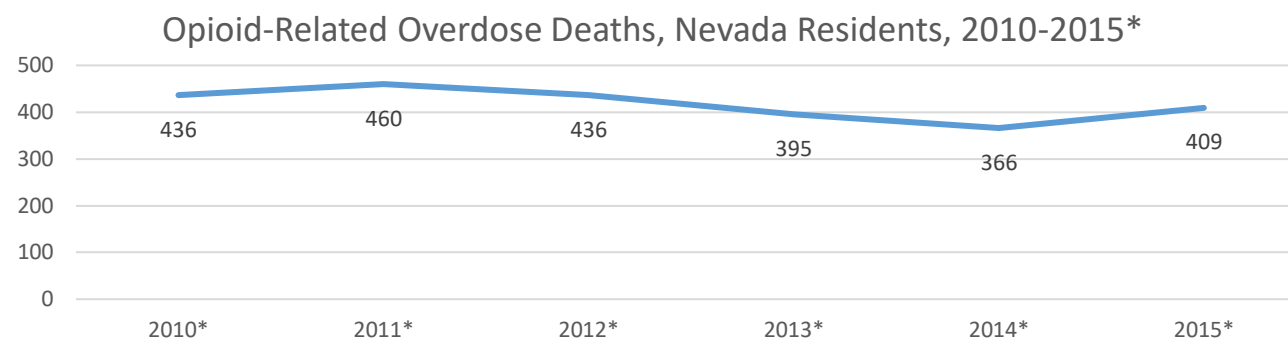
Opioid-Related Overdose Deaths, Nevada Residents, 2010-2015*

Year	Opioid-Related Overdose Deaths	Crude Rates	Percent Change	Benzodiazepine Related Overdose Deaths	Opioid and Benzodiazepine Related Overdose Deaths
2010*	436	16.1		161	139
2011*	460	16.9	5%	165	143
2012*	436	15.9	-6%	162	140
2013*	395	14.1	-11%	126	106
2014*	366	12.9	-9%	125	109
2015*	409	14.2	11%	129	117
Percent Change 2010-2015			-12%		

Rates are per 100,000 Nevada Population.

Each year:

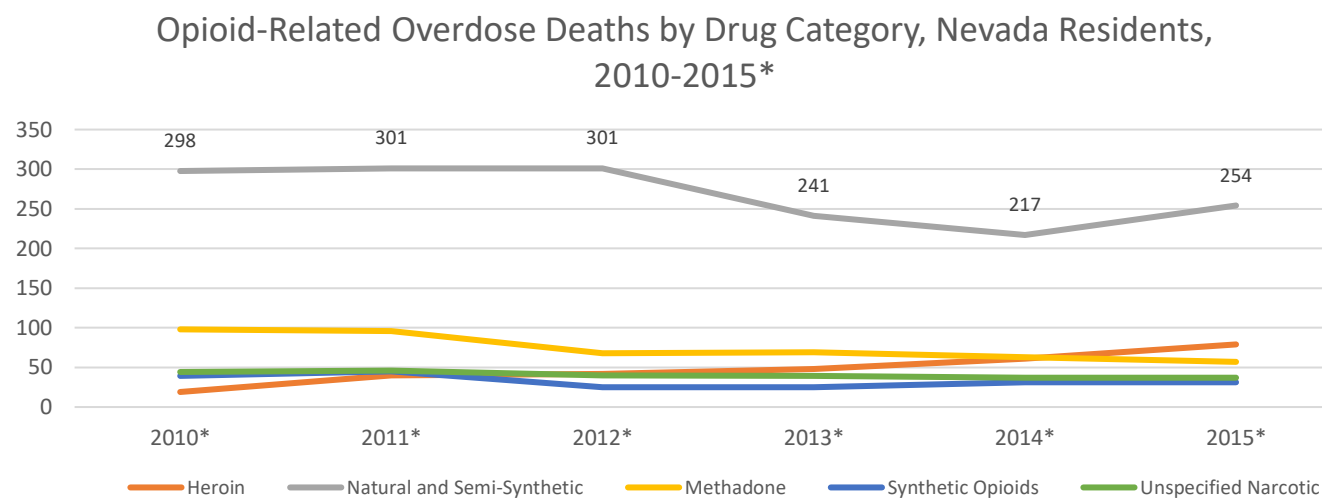
- Roughly 85% of all benzodiazepine-related overdose deaths also involve opioids.
- Roughly 30% of all opioid-related overdose deaths also involve benzodiazepines.



Opioid-Related Overdose Deaths by Drug Category, Nevada Residents, 2010-2015*

Year	Heroin	Natural and Semi-Synthetic	Methadone	Synthetic Opioids	Unspecified Narcotic
2010*	19	298	98	39	44
2011*	40	301	96	45	46
2012*	42	301	68	25	40
2013*	48	241	69	25	39
2014*	61	217	63	31	37
2015*	79	254	57	31	37

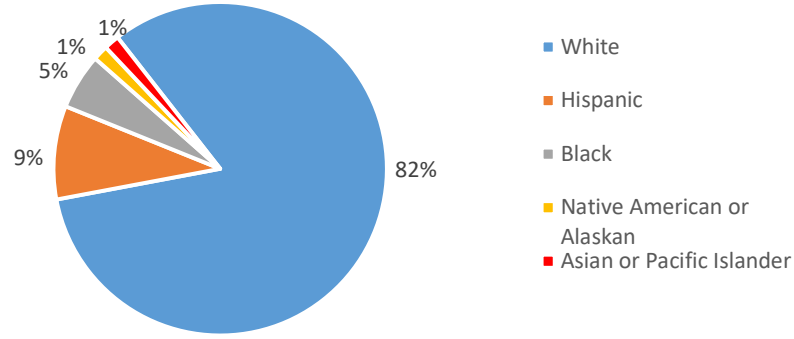
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Opioid-Related Deaths by Race/Ethnicity, Nevada Residents, 2015*

Race/Ethnicity	%	Crude Rates
White	82%	22.0
Hispanic	9%	4.6
Black	5%	9.0
Native American or Alaskan	1%	18.5
Asian or Pacific Islander	1%	2.3

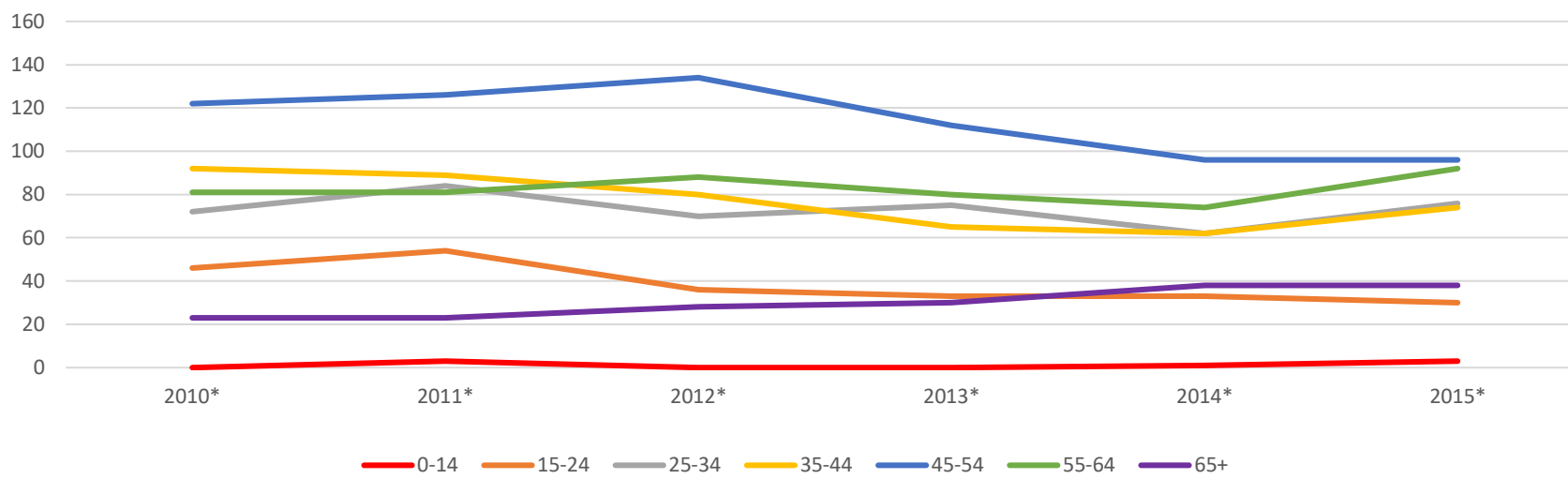


Rates are per 100,000 Nevada Population.

Opioid-Related Deaths by Age Group, Nevada Residents, 2010-2015*

Year	0-14	15-24	25-34	35-44	45-54	55-64	65+
2010*	0	46	72	92	122	81	23
2011*	3	54	84	89	126	81	23
2012*	0	36	70	80	134	88	28
2013*	0	33	75	65	112	80	30
2014*	1	33	62	62	96	74	38
2015*	3	30	76	74	96	92	38

Opioid-Related Deaths by Age Group, Nevada Residents, 2010-2015*



Opioid-Related Deaths by Intent, Nevada Residents, 2010-2015*

Cause of Death	N	%	Crude Rates
Accident	2,123	85%	12.7
Suicide	316	13%	1.9
Assult/Homicide	4	0%	0.0
Events of Undetermined Intent	59	2%	0.4
Total (2010-2015)	2,502	100%	15.0

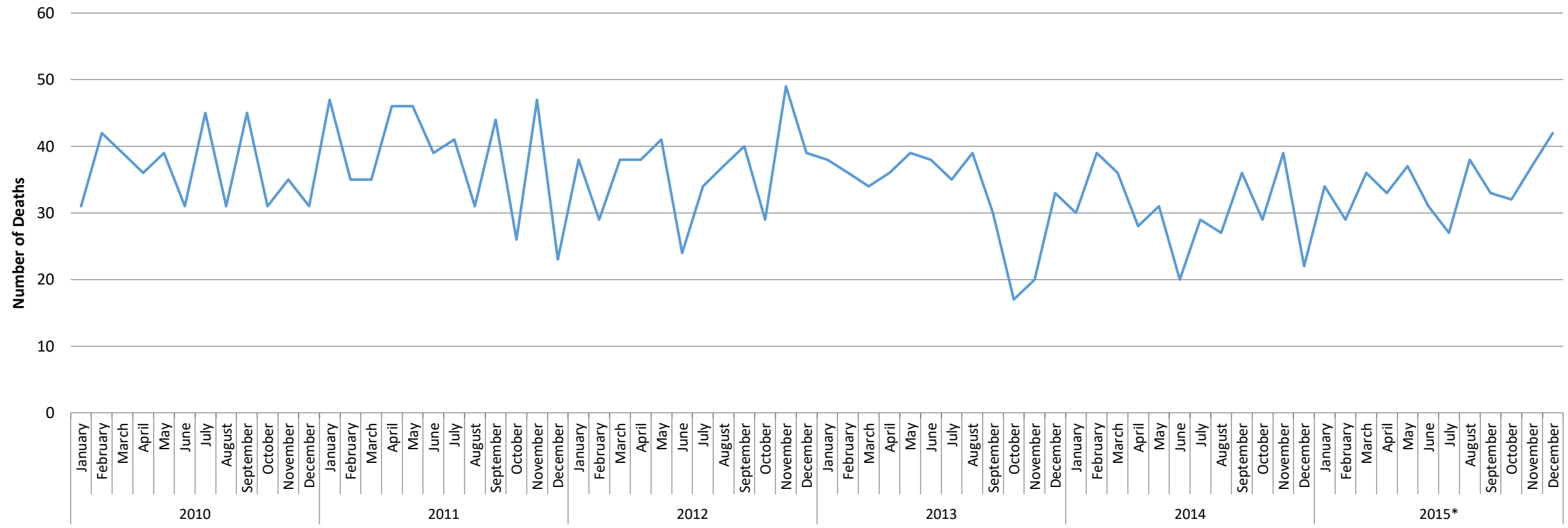
Opioid-Related Deaths by Sex, Nevada Residents, 2010-2015*

Year	Male	Crude Rates	Female	Crude Rates
2010*	239	17.5	197	14.7
2011*	278	20.2	182	13.5
2012*	226	16.3	210	15.4
2013*	214	15.2	181	13.0
2014*	196	13.7	170	12.0
2015*	220	15.2	189	13.2

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Opioid-Related Deaths, Nevada Residents, 2010-2015



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