

Nevada Opioid Surveillance

2010 - 2015



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Department of Health and Human Services*

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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.

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:

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
F19.2	Other psychoactive substance dependence ICD-10-CM

Nondependent Opioid Abuse

305.5	Nondependent opioid abuse ICD-9-CM
F11.1	Opioid abuse ICD-10-CM

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

External Poisoning

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

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

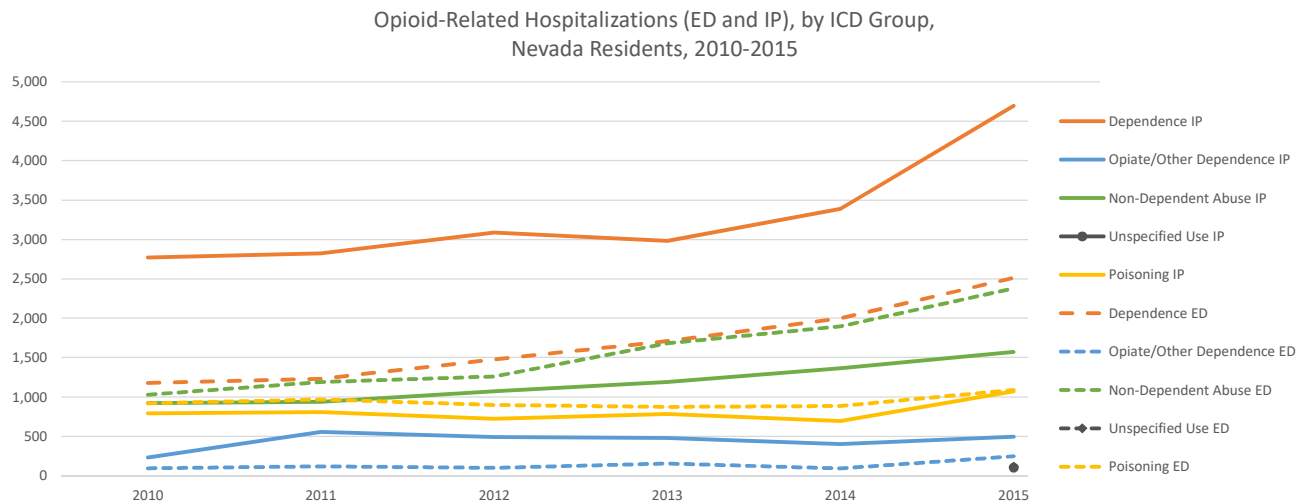
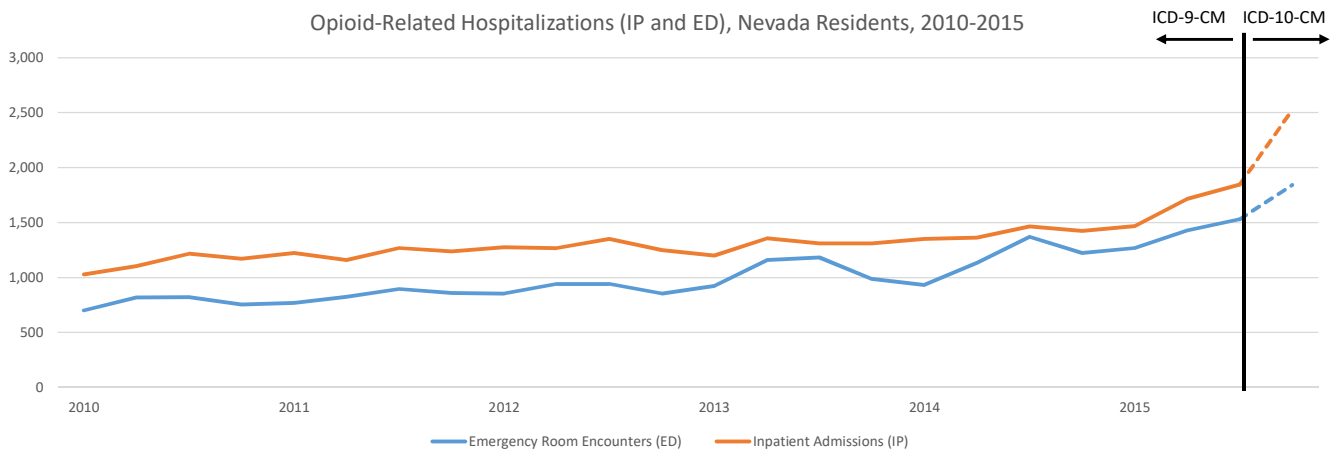
Opioid-Related Hospital Data, Nevada Residents, 2010-2015

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.

Year	Emergency Room Encounters (ED)	Emergency Room Crude Rates	Percent Change	Inpatient Admissions (IP)	Inpatient Crude Rates	Percent Change
2010	3,095	114.4		4,518	167.0	
2011	3,348	123.0	8%	4,889	179.6	8%
2012	3,594	130.7	6%	5,143	187.0	4%
2013	4,250	151.7	16%	5,172	184.7	-1%
2014	4,661	163.9	8%	5,603	197.1	7%
^2015	6,069	211.2	29%	7,555	262.9	33%
Percent Change 2010-2015			85%			57%

Rates are per 100,000 Nevada Population.

^In 2015, quarter 4, the ICD-10-CM codes were implemented.



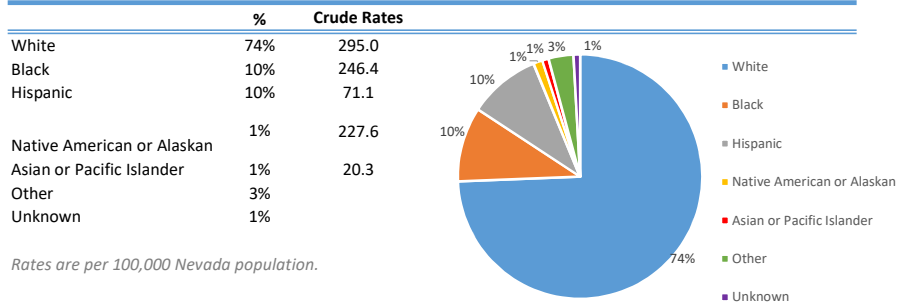
A person can be included in more than one drug group, and therefore the counts above are not mutually exclusive.

Opioid-Related Hospitalization (Inpatient) Visits by Length of Stay (Days), Nevada Residents, 2010-2015

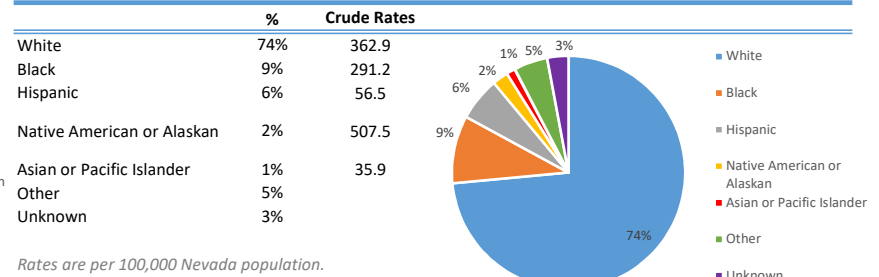
Year	0-1	2-4	5-9	10-14	15-19	20-24	25+
2010	684	1,897	1,189	390	140	100	118
2011	714	2,031	1,373	415	133	77	146
2012	693	1,986	1,555	478	163	106	162
2013	783	1,991	1,510	414	197	113	164
2014	757	2,158	1,617	514	221	113	223
2015	924	2,968	2,366	655	263	139	240

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



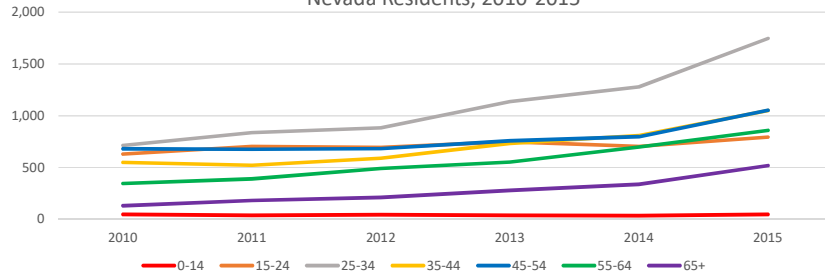
Opioid-Related Inpatient Admissions by Race/Ethnicity, Nevada Residents, 2015



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	47	629	714	549	680	345	131
2011	38	703	837	521	677	391	181
2012	44	694	883	590	682	490	211
2013	39	748	1,138	734	759	552	280
2014	35	704	1,279	810	797	697	338
2015	47	793	1,747	1,051	1,053	859	519

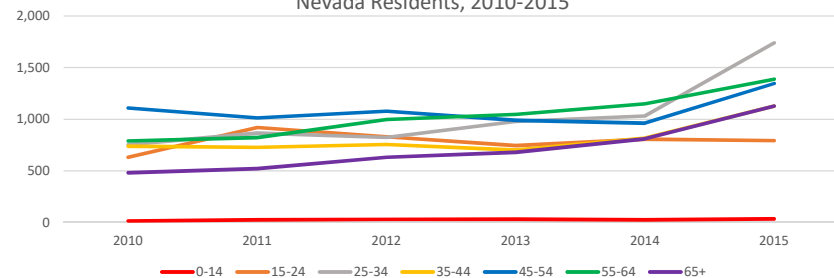
Opioid-Related Emergency Department Encounters by Age Group, Nevada Residents, 2010-2015



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

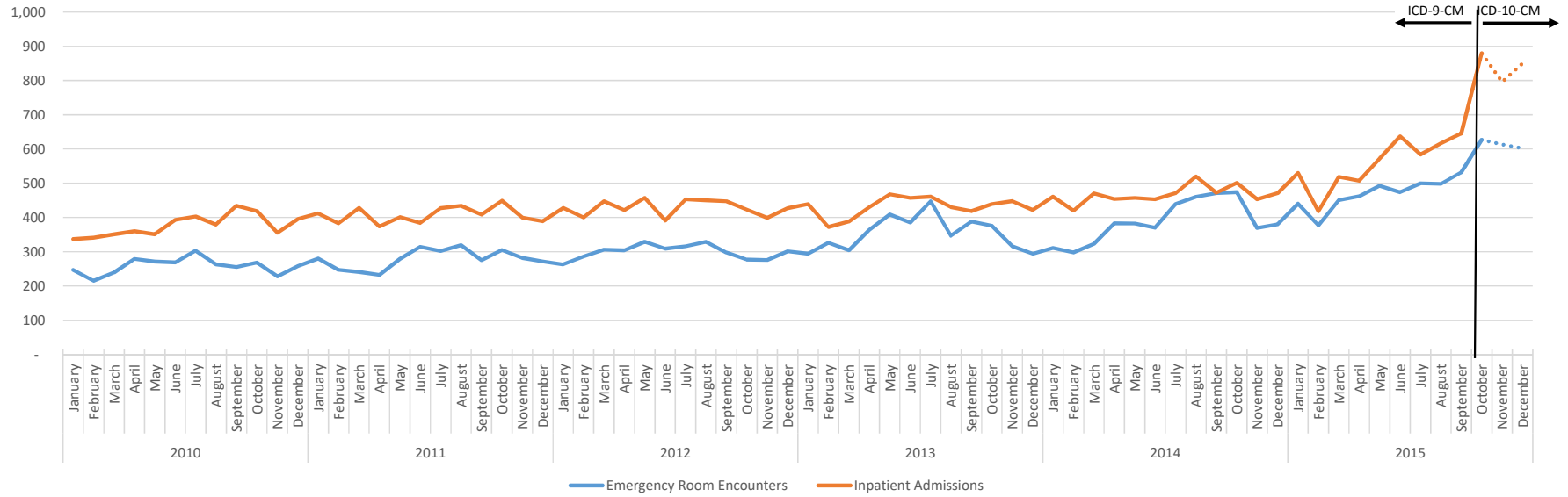
Year	0-14	15-24	25-34	35-44	45-54	55-64	65+
2010	15	632	754	738	1,109	789	481
2011	25	920	865	726	1,012	821	520
2012	29	829	823	756	1,078	997	631
2013	32	744	978	701	990	1,047	680
2014	26	807	1,032	818	962	1,148	810
2015	34	793	1,739	1,127	1,346	1,388	1,128

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



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

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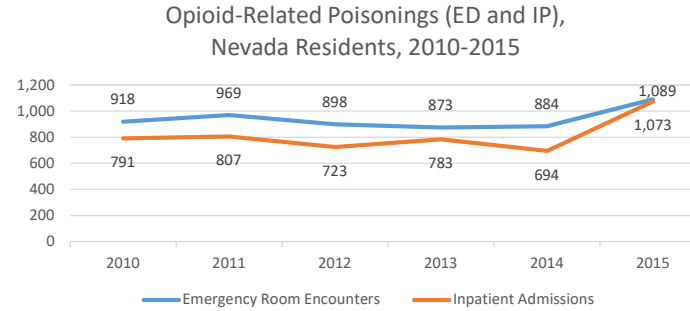
Opioid-Related Poisonings - Emergency Department Encounters and Inpatient Hospital Admissions, Nevada Residents, 2010-2015

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: 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	918	33.9		791	29.2	
2011	969	35.6	5%	807	29.6	1%
2012	898	32.7	-8%	723	26.3	-11%
2013	873	31.2	-5%	783	28.0	6%
2014	884	31.1	0%	694	24.4	-13%
2015	1,089	37.9	22%	1,073	37.3	53%
Percent Change 2010-2015			12%	28%		

Rates are per 100,000 Nevada population



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

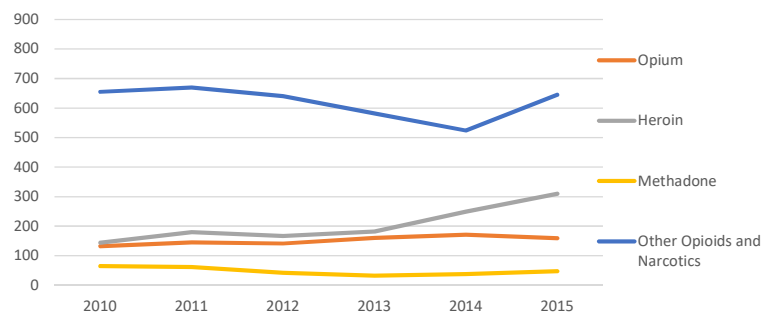
Year	Opium	Heroin	Methadone	Other Opioids and Narcotics
2010	132	144	65	655
2011	145	180	62	670
2012	141	167	42	640
2013	160	182	32	582
2014	171	249	37	524
2015	159	310	47	645

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

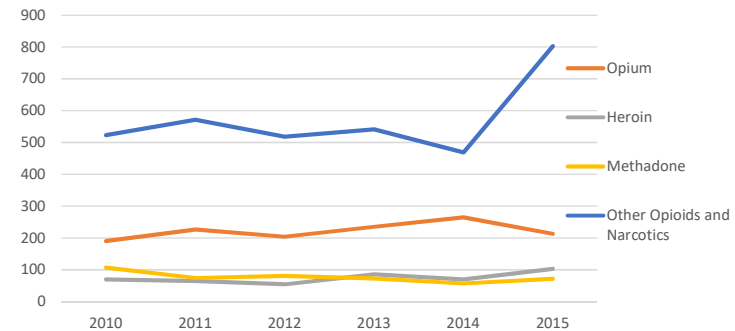
Opioid-Related Poisonings - Inpatient Admissions, Nevada Residents, 2010-2015

Year	Opium	Heroin	Methadone	Other Opioids and Narcotics
2010	190	70	107	523
2011	227	64	74	572
2012	204	54	81	518
2013	235	86	73	541
2014	265	70	57	469
2015	213	103	72	803

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



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



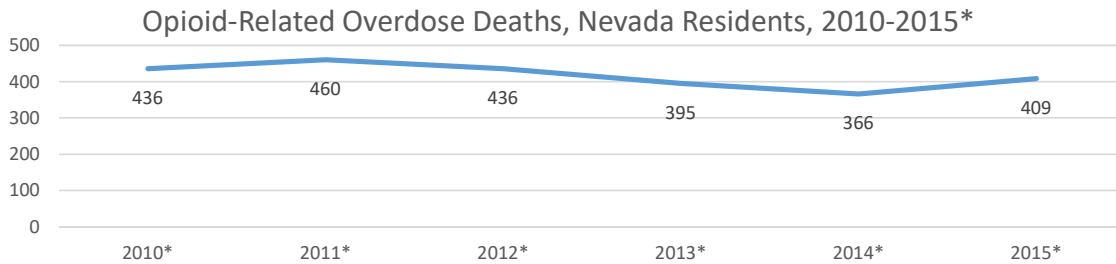
Opioid-Related Overdose Deaths, Nevada Residents, 2010-2015*

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:

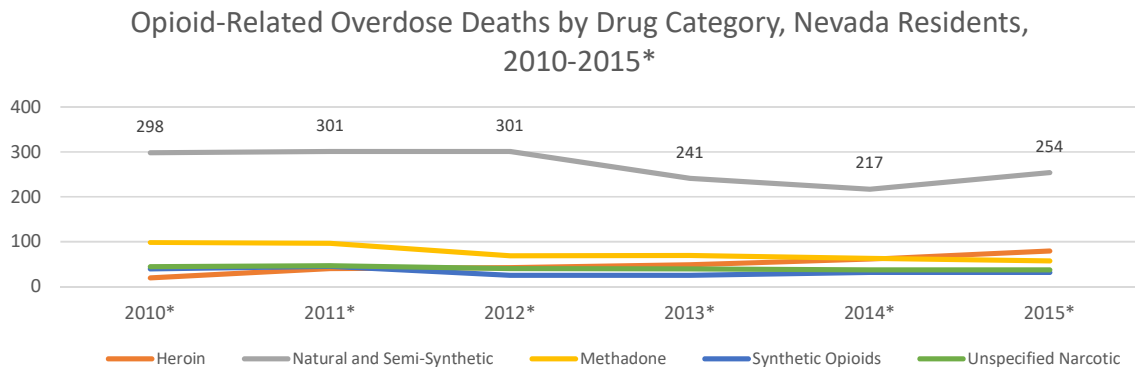
- Roughly 87% of all benzodiazepine-related overdose deaths also involve opioids.
- Roughly 30% of all opioid-related overdose deaths also involve benzodiazepines.



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

Year	Heroin	Natural and Semi-Synthetic	Metadone	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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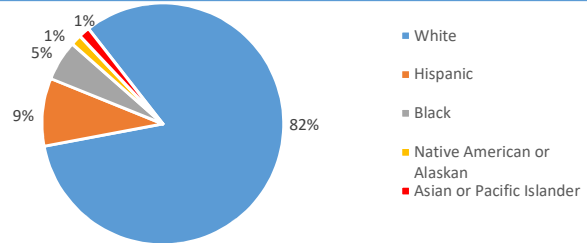


* Data are preliminary and are subject to changes.

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

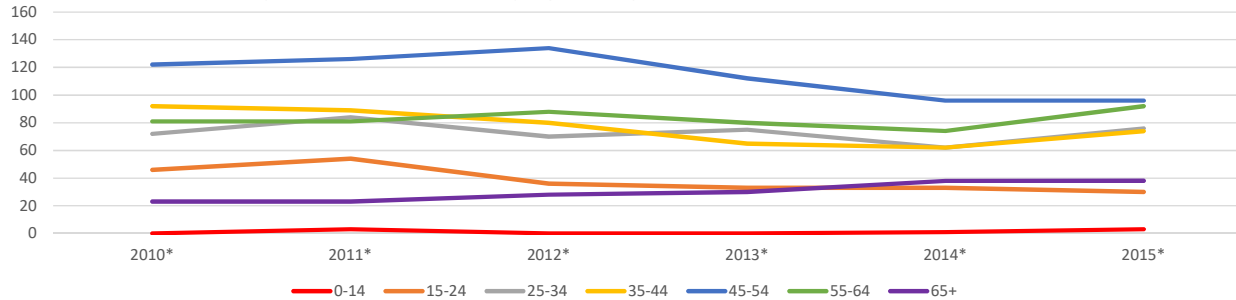
Rates are per 100,000 Nevada Population.



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
Assault/Homicide	4	0%	0.0
Events of Undetermined Intent	59	2%	0.4

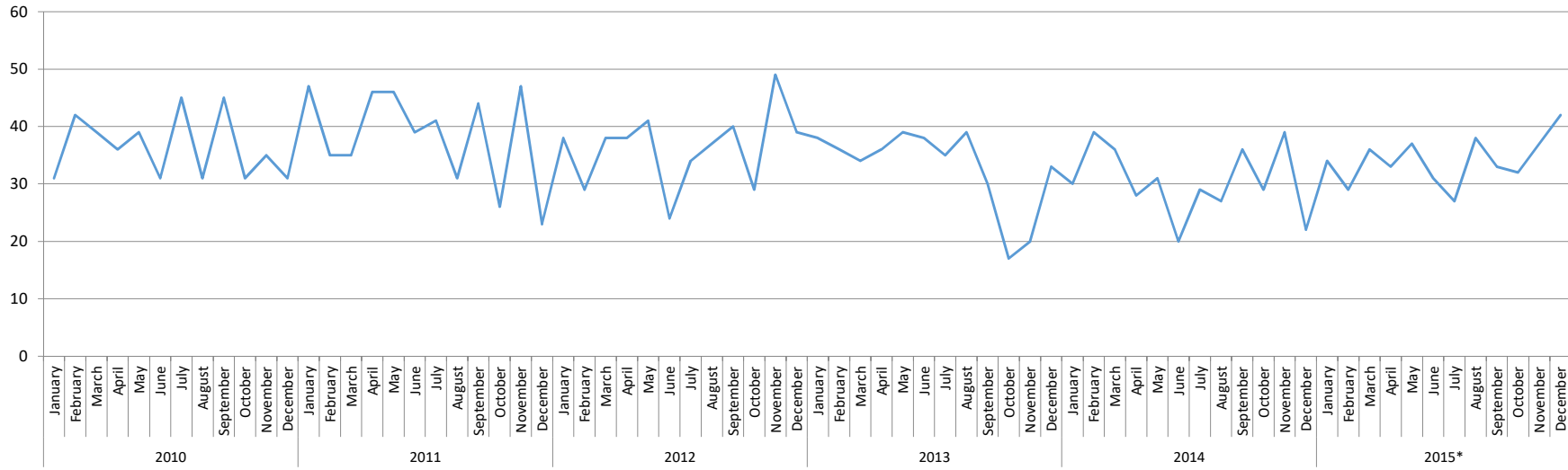
Opioid-Related Deaths by Sex, Nevada Residents, 2010-2015*

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

Rates are per 100,000 Nevada Population.

*Data are preliminary and are subject to changes.

Number of Opioid-Related Deaths, Nevada Residents, 2010-2015*



*Data are preliminary and are subject to changes.