

Drug Overdose Summary- Mendocino County, CA

Mendocino County Health & Human Services Agency

Healthy People, Healthy Communities

Injury Fact Sheet: Mendocino County Drug Overdose Summary Tables

	Deaths										
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total deaths	87	86	70	72	71	79	81	84	83	75	59
Drug poisoning ¹	20	23	11	12	19	24	22	22	26	21	9
Unintentional	14	15	7	7	13	20	11	16	17	17	7
Narcotics ²	8	7	3	4	9	7	4	5	4	7	1
Suicide	1	5	4	2	6	4	10	6	8	4	2
Homicide	0	0	0	0	0	0	0	0	1	0	0
Undetermined	5	3	0	3	0	0	1	0	0	0	0

1 Includes drug poisoning for all intents (ICD10 X40-X44, X60-X64, X85, Y10-Y14)

2 ICD10 X42 includes cannabis (derivatives), cocaine, heroin, LSD, mescaline, methadone, morphine, opium (alkaloids)

Injury Fact Sheet: Mendocino County Drug Overdose Summary Tables

	Hospitalizations										
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total injuries	914	929	991	947	919	975	888	1,012	994	903	842
Drug poisoning ¹	112	109	129	93	84	114	89	130	108	127	133
Unintentional	54	57	73	56	47	69	55	67	53	76	69
Opiates ²	20	19	26	18	26	21	19	31	28	35	39
Self-inflicted	48	47	49	30	36	33	22	39	33	38	42
Assault	0	0	0	0	0	0	0	0	0	0	1
Undetermined	10	5	7	7	1	12	12	24	22	13	18

1 Includes drug poisoning for all intents (ICD10 E850.0 -E858.9, E950.0-E950.5, E962.0, E980.0-E980.5)

2 ICD10 E850.1 & E850.2 includes methadone and other opiates and related narcotics (codeine, meperidine, morphine, opium alkaloids)



Injury Fact Sheet: Mendocino County Drug Overdose Summary Tables

	Emergency Department Visits						
	2006	2007	2008	2009	2010	2011	2012
Total injuries	11,264	10,803	10,662	10,611	10,336	10,372	10,220
Drug poisoning ¹	394	317	347	350	391	442	416
Unintentional	303	233	249	271	321	377	346
Opiates ²	25	20	18	26	18	31	32
Self-inflicted	75	69	84	65	52	47	58
Assault	0	0	0	1	1	0	0
Undetermined	16	15	14	13	17	18	12

1 Includes drug poisoning for all intents (ICD10 E850.0 -E858.9, E950.0-E950.5, E962.0, E980.0-E980.5)

2 ICD10 E850.1 & E850.2 includes methadone and other opiates and related narcotics (codeine, meperidine, morphine, opium alkaloids)



Injury Fact Sheet: Mendocino County Drug Overdose Summary Tables

All	Years									
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	
Death rate										
Drug poisoning †	24.1	20.5	18.7	24.5	29.0	30.3	31.2	30.6	24.7	
Unintentional drug poisoning †	16.1	12.9	12.0	17.8	19.6	21.0	19.6	22.2	18.1	
Hospitalization rate										
Drug poisoning	81.2	73.0	69.0	64.7	58.9	63.3	61.4	74.6	78.6	
Opiate poisoning	29.0	28.0	31.2	28.6	29.0	30.8	33.8	40.8	44.2	
ED visit rate										
Drug poisoning **					105.8	109.7	106.4	103.0	110.0	
Opiate poisoning **					26.8	27.2	26.3	31.5	34.4	

† Crude Rates are per 100,000 to 2010 US Census Data

Rates are per 100,000 and age adjusted to 2010 US Census Data.

** Rates cannot be calculated because population data are not available for this category.



Injury Fact Sheet: Mendocino County Drug Overdose Summary Tables

Male	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
Death rate									
Drug poisoning**									
Unintentional drug poisoning**									
Hospitalization rate									
Drug poisoning	47.6	41.2	37.6	35.9	35.0	34.9	42.9	55.2	68.1
Opiate poisoning	*	*	17.9	*	*	*	23.2	31.1	38.9
ED visit rate									
Drug poisoning**					91.4	99.4	85.7	86.3	98.2
Opiate poisoning**					27.8	22.4	19.6	21.4	30.1

* Rates are not displayed if they are based on fewer than 20 cases because they are not reliable.

** Rates cannot be calculated because population data are not available for this category.

Rates are per 100,000 and age adjusted to 2010 US Census Data.

Injury Fact Sheet: Mendocino County

Drug Overdose Summary Tables

Female	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
Death rate									
Drug poisoning **									
Unintentional drug poisoning **									
Hospitalization rate									
Drug poisoning	114.4	104.4	100.1	93.2	82.7	91.5	79.9	91.5	89.1
Opiate poisoning	45.2	42.5	44.3	40.8	40.9	44.4	44.4	50.5	49.4
ED visit rate									
Drug poisoning **					120.0	120.0	126.6	119.6	121.7
Opiate poisoning **					25.8	32.0	32.8	41.6	38.8

* Rates are not displayed if they are based on fewer than 20 cases because they are not reliable.

** Rates cannot be calculated because population data are not available for this category.

Rates are per 100,000 and age adjusted to 2010 US Census Data.

Non-fatal Drug Overdose Hospitalizations

All	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC Hospitalization rate									
Drug poisoning	81.2	73.0	69.0	64.7	58.9	63.3	61.4	74.6	78.6
Opiate poisoning	29.0	28.0	31.2	28.6	29.0	30.8	33.8	40.8	44.2
CA Hospitalization rate									
Drug poisoning	36.1	35.9	34.5	34.3	34.9	36.5	37.6	38.2	39.0
Opiate poisoning	10.1	10.6	10.9	11.4	12.2	13.2	14.1	14.6	19.9

Rates are per 100,000 and age-adjusted to 2010 US standard population

Non-fatal drug overdose (poisoning) hospitalizations

- In general, Mendocino County drug overdose hospitalization rates from opiate poisoning increased over the time period and was significantly higher than California rates.
- Women residing in Mendocino County had a higher hospitalization rates than men and the California rate for women.



Non-fatal Drug Overdose Hospitalizations

Male	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC Hospitalization rate									
Drug poisoning	47.6	41.2	37.6	35.9	35.0	34.9	42.9	55.2	68.1
Opiate poisoning	*	*	17.9	*	*	*	23.2	31.1	38.9
CA Hospitalization rate									
Drug poisoning	30.3	30.5	29.8	29.5	30.1	31.6	33.0	34.1	35.4
Opiate poisoning	9.0	9.5	9.7	10.4	11.1	12.0	12.9	13.6	13.9

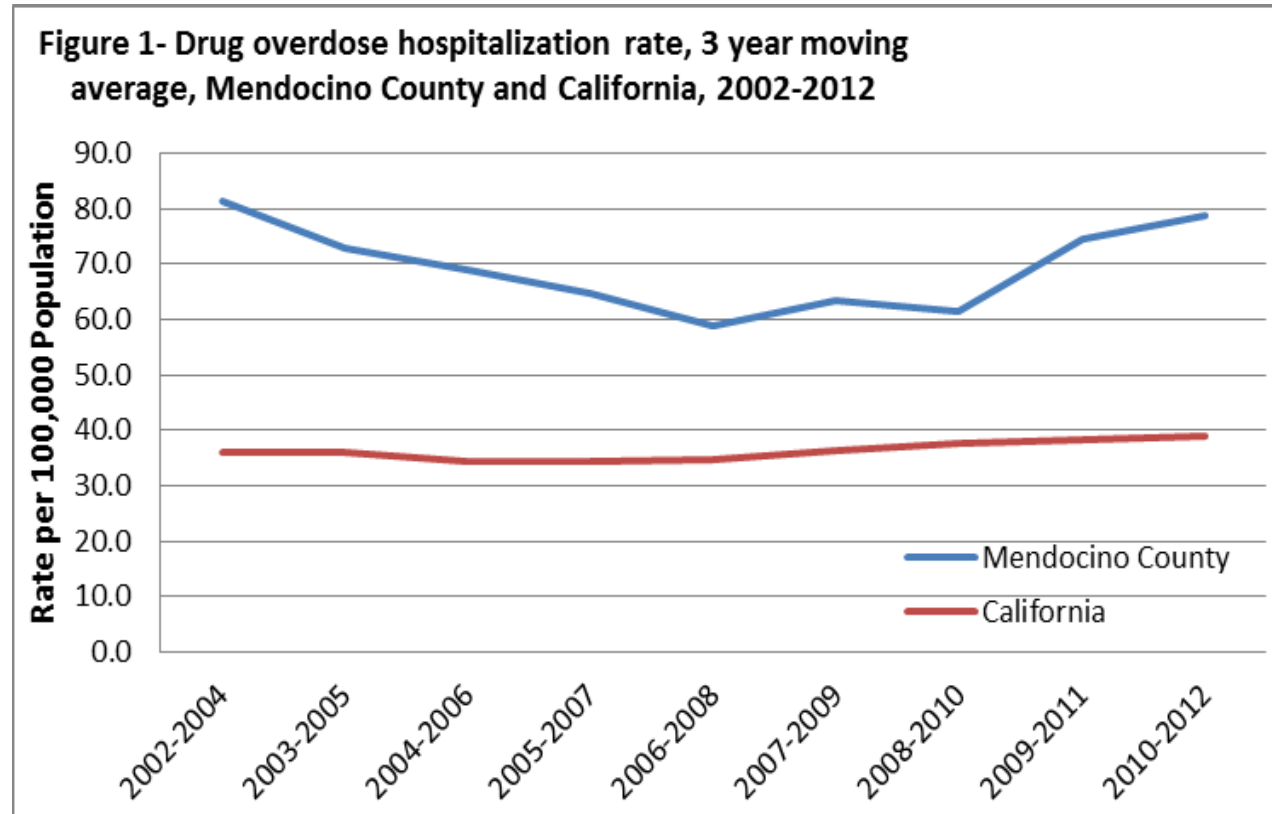
Female	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC Hospitalization rate									
Drug poisoning	114.4	104.4	100.1	93.2	82.7	91.5	79.9	93.9	89.1
Opiate poisoning	45.2	42.5	44.3	40.8	40.9	44.4	44.4	50.5	49.4
CA Hospitalization rate									
Drug poisoning	41.7	41.2	39.1	39.0	39.7	41.3	42.0	42.1	42.6
Opiate poisoning	11.3	11.8	12.0	12.4	13.3	14.4	15.3	15.6	15.9

Rates are per 100,000 and age-adjusted to 2010 US standard population

* Rates are not displayed if they are based on fewer than 20 cases because they are not reliable.

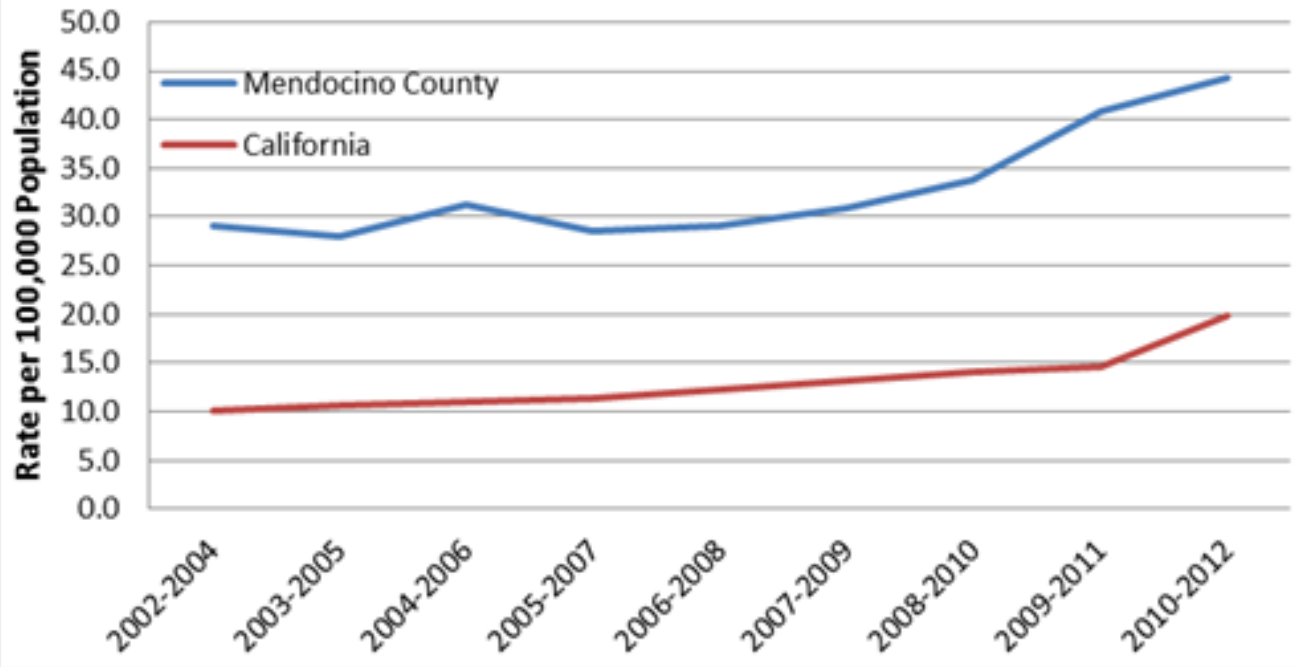


Non-fatal Drug Overdose Hospitalizations



Non-fatal Drug Overdose Hospitalizations

Figure 2- Opiate overdose hospitalization rate, 3 year moving average, Mendocino County and California, 2002-2012



Non-fatal Drug Overdose Hospitalizations

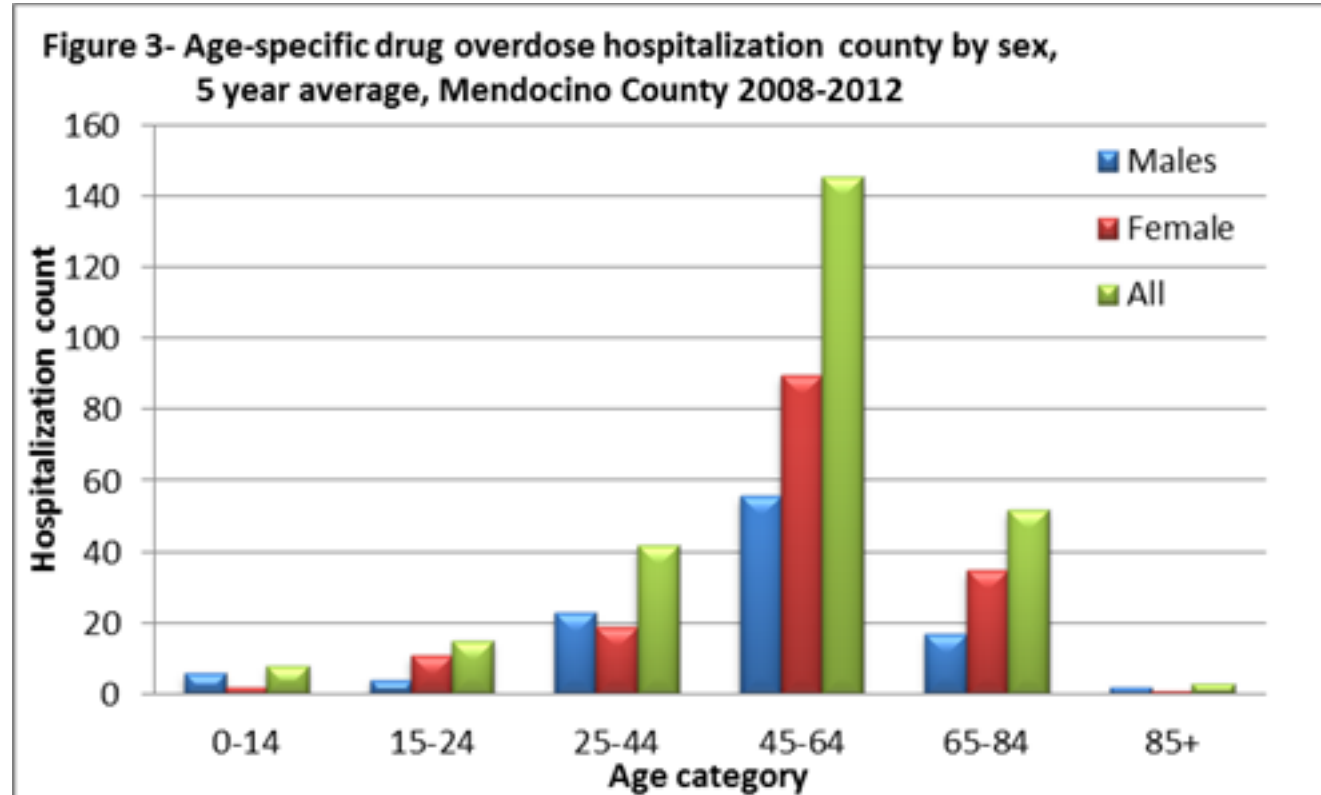
Age-Specific drug overdose hospitalization count by sex,
5 year average, Mendocino County 2008-2012

Status	AGE					
	0-14	15-24	25-44	45-64	65-84	85+
Males	6	4	23	56	17	2
Female	2	11	19	90	35	1
All	8	15	42	146	52	3

Age and Sex

- Among adults 45-64 years counts were higher for both men and women than all other ages.

Non-fatal Drug Overdose Hospitalizations



Drug Overdose Emergency Department Visits

Male	Years				
	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC ED visit rate					
Drug poisoning	91.4	99.4	85.7	86.3	98.2
Opiate poisoning	27.8	22.4	19.6	21.4	30.1
CA ED visit rate					
Drug poisoning	40.9	44.2	48.0	51.4	54.7
Opiate poisoning	16.2	17.6	18.5	19.8	21.0

Drug overdose emergency department (ED) visits

- Mendocino County ED visits rate from drug overdoses remained significantly higher than the California rate.
- In general, drug overdose ED rates from opiate poisoning increased over the time period.

Female	Years				
	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC ED visit rate					
Drug poisoning	120.0	120.0	126.6	119.6	121.7
Opiate poisoning	25.8	32.0	32.8	41.6	38.8
CA ED visit rate					
Drug poisoning	49.6	53.3	56.4	59.4	61.2
Opiate poisoning	13.2	14.5	15.3	16.1	16.5

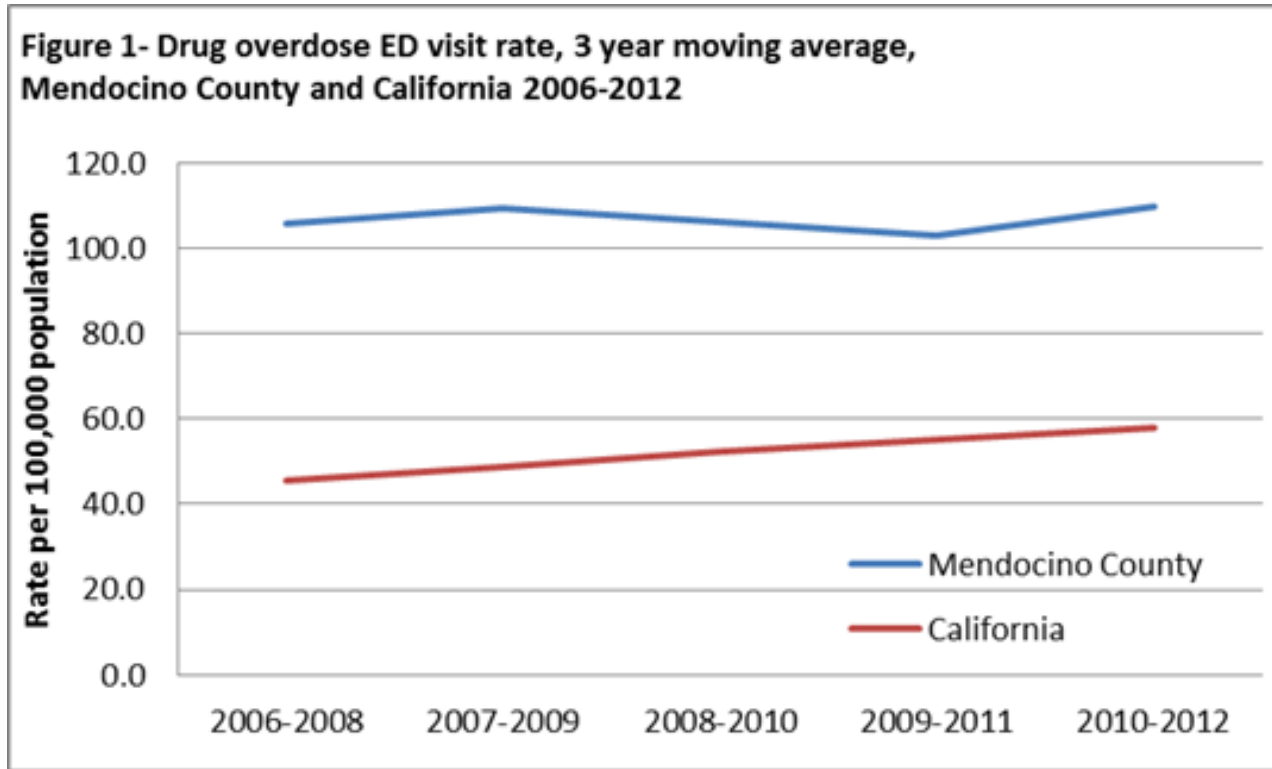
Rates are per 100,000 and age-adjusted to 2010 US standard population

All	Years				
	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
MC ED visit rate					
Drug poisoning	105.8	109.7	106.4	103.0	110.0
Opiate poisoning	26.8	27.2	26.3	31.5	34.4
CA ED visit rate					
Drug poisoning	45.5	48.8	52.2	55.3	58.0
Opiate poisoning	14.7	16.0	16.9	17.9	18.7

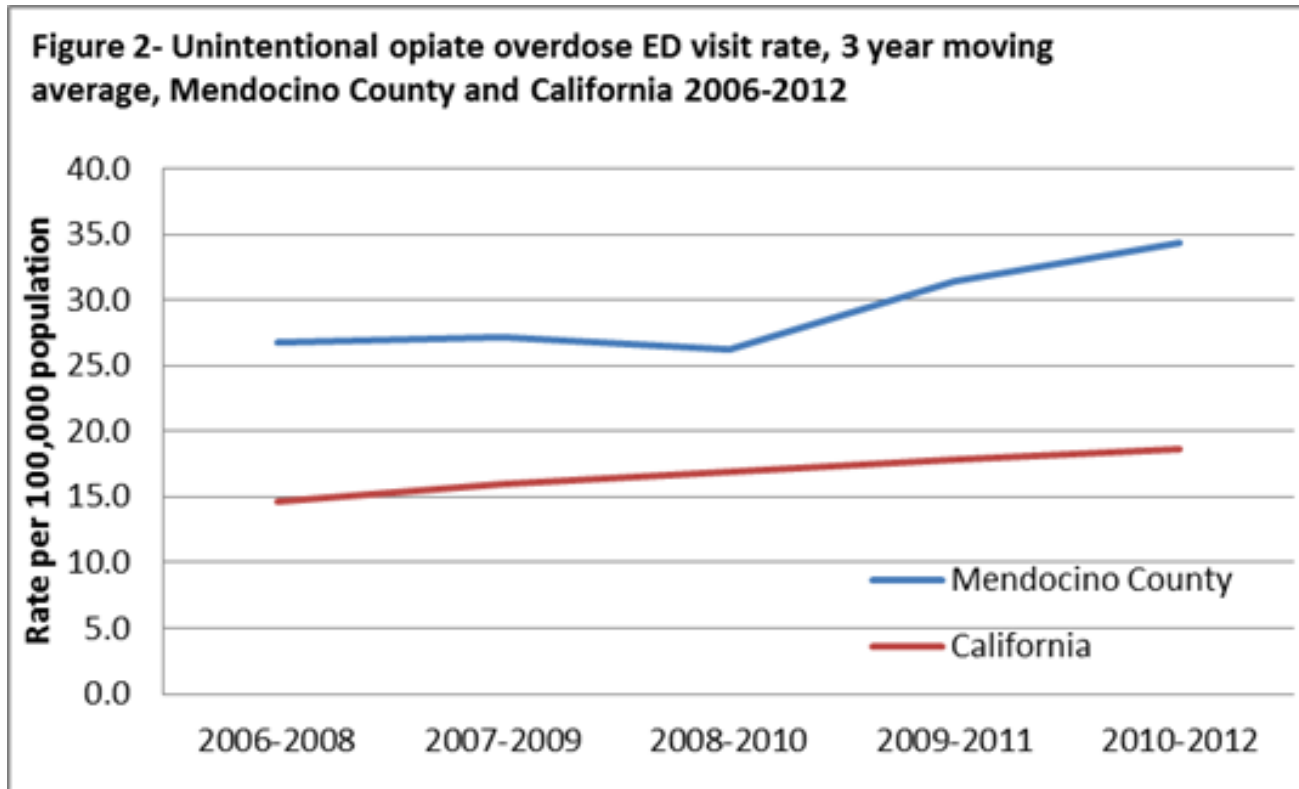
Rates are per 100,000 and age-adjusted to 2010 US standard population



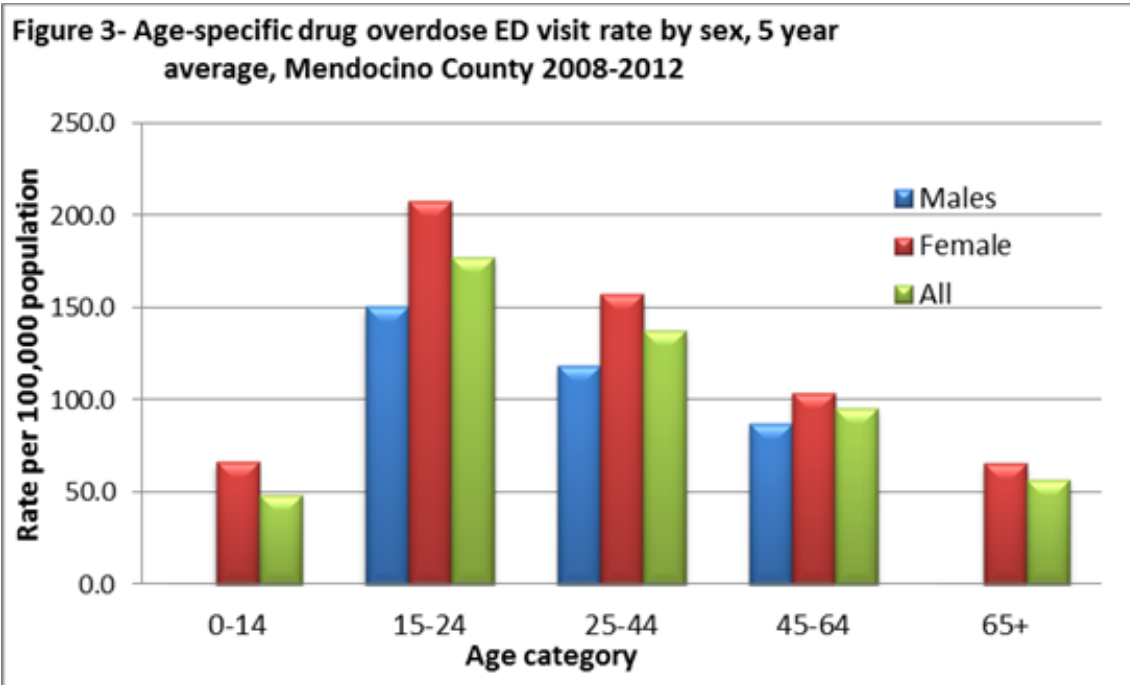
Drug Overdose Emergency Department Visits



Drug Overdose Emergency Department Visits



Drug Overdose Emergency Department Visits



Age and Sex

- Drug overdose ED visit rates were significantly higher in women than men.
- Men between 0-14 and 65+ years had fewer than 20 cases.

Age-Specific drug overdose emergency department (ED) visit rate by sex, 5 year average, Mendocino County 2008-2012

Status	AGE				
	0-14	15-24	25-44	45-64	65+
Males	*	150.7	119.0	87.0	*
Female	66.2	208.0	157.4	103.7	65.4
All	48.5	177.5	137.4	95.5	56.5

Rates are per 100,000 and age-adjusted to 2010 US standard population

* Rates are not displayed if they are based on fewer than 20 cases because they are not reliable.

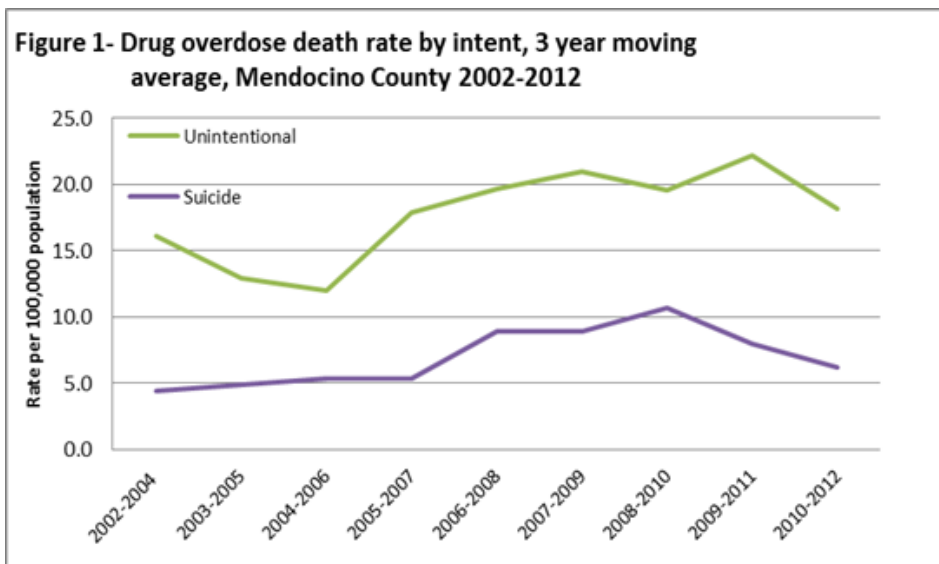
Drug Overdose Deaths

	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
Death rate ✧									
Drug poisoning	24.1	20.5	18.7	24.5	29.0	30.3	31.2	30.6	24.7
Unintentional	16.1	12.9	12.0	17.8	19.6	21.0	19.6	22.2	18.1
Suicide	4.5	4.9	5.3	5.4	8.9	8.9	10.7	8.0	6.2

✧Crude Rates are per 100,000 to 2010 US Census Data
 Rates are per 100,000 and age adjusted to 2010 US Census Data.

Intent

The death rate increased significantly for both unintentional and suicide drug overdose deaths in 2005-2007 until 2009-2011.



Drug Overdose Deaths

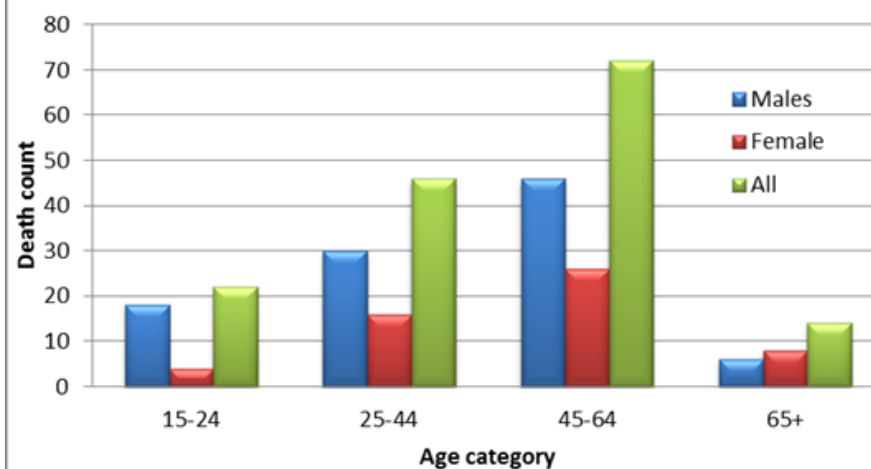
Age-Specific drug overdose death count by sex,
5 year average, Mendocino County 2008-2013

Status	AGE				
	15-24	25-44	45-64	65+	85+
Males	18	30	46	6	2
Female	4	16	26	8	1
All	22	46	72	14	3

Age and Sex

In general, drug overdose death counts increased with age for Mendocino County males and females. Drug overdose death count were higher among Mendocino County women than men.

Figure 2- Drug overdose death count by sex, in Mendocino County, 2008-2013



Drug Overdose Deaths

Death rate↵	Years								
	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012
White	21.7	19.7	19.4	25.4	29.9	31.3	32.7	33.6	26.6
Non-White	6.2	3.1	3.0	5.9	11.6	12.7	11.0	9.3	9.1

↵ Crude Rates are per 100,000 to 2010 US Census Data
 Non-White includes Black, Hispanic, American Indian, Asian/ Pacific Islander

