

# Prescription Drug Abuse

Substance Abuse Prevention and Treatment Agency  
March, 2012

**EXHIBIT E – HEALTH CARE**  
Document consists of 23 pages.  
Entire exhibit provided.  
Meeting Date: 03-13-12

# SAPTA's Mission

- ▶ The mission of the Substance Abuse Prevention and Treatment Agency (SAPTA) is to reduce the impact of substance abuse in Nevada.
- ▶ SAPTA funds 22 substance abuse treatment providers and 13 substance abuse prevention programs throughout the State.
- ▶ SAPTA receives both Federal and State funding.

# Non Medical Use of Pain Relievers

- ▶ Nearly 7,000,000 Americans are abusing prescription drugs – more than the number who are abusing cocaine, heroin, hallucinogens, ecstasy and inhalants, combined.
- ▶ In 2000, just 3.8 million people were abusing prescription drugs – an 80 percent increase in 10 years.
- ▶ New drug users are choosing prescription drugs instead of marijuana or cocaine.
- ▶ Opioid painkillers now cause more drug overdose deaths than cocaine and heroin combined.
- ▶ Source: Drug Enforcement Administration Brief, December 2010.

# Drug Abuse Warning Network

- ▶ Nationwide Emergency Department Visits 2009 for Prescription Drug Use

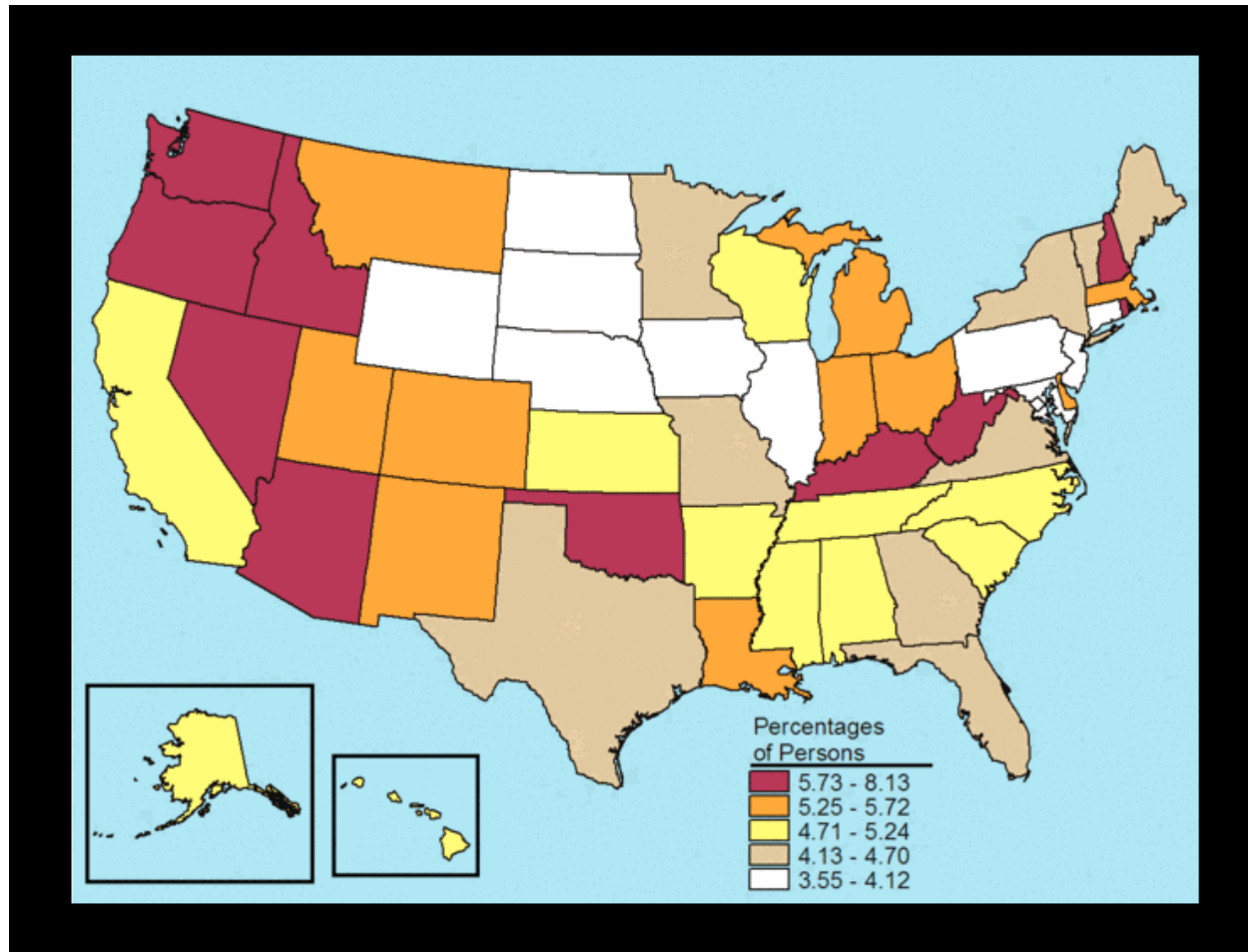
	<u>ED Visits</u>	<u>Percentage</u>
▶ Opiates/opioids	416,458	38.6
▶ Narcotic pain relievers	342,628	31.7
▶ Oxycodone products	148,449	13.7
▶ Opiates/opioids, unspecified	84,144	7.8
▶ Total ED Prescription Drug Visits	1,079,683	100

# Nevada

- ▶ Nevada ranks in the top twenty percent in all four age groups in the percentage of people reporting non medical use of pain relievers. (12 and older, 12 to 17, 18 to 25 and 26 and older, NSDUH)
- ▶ Admissions to SAPTA funded treatment programs have increased since 2007 for:
  - Opiates 112% (Opium derivatives, Oxycodone, Hydrocodone)
  - Sedatives/Hypnotics 136% (Tranquilizers, sleeping pills)
  - Other stimulants 200% (Ritalin, Amphetamines)

# Non Medical Use of Pain Relievers

National Survey on Drug Use and Health 2009. Interview data from 137,436 people.

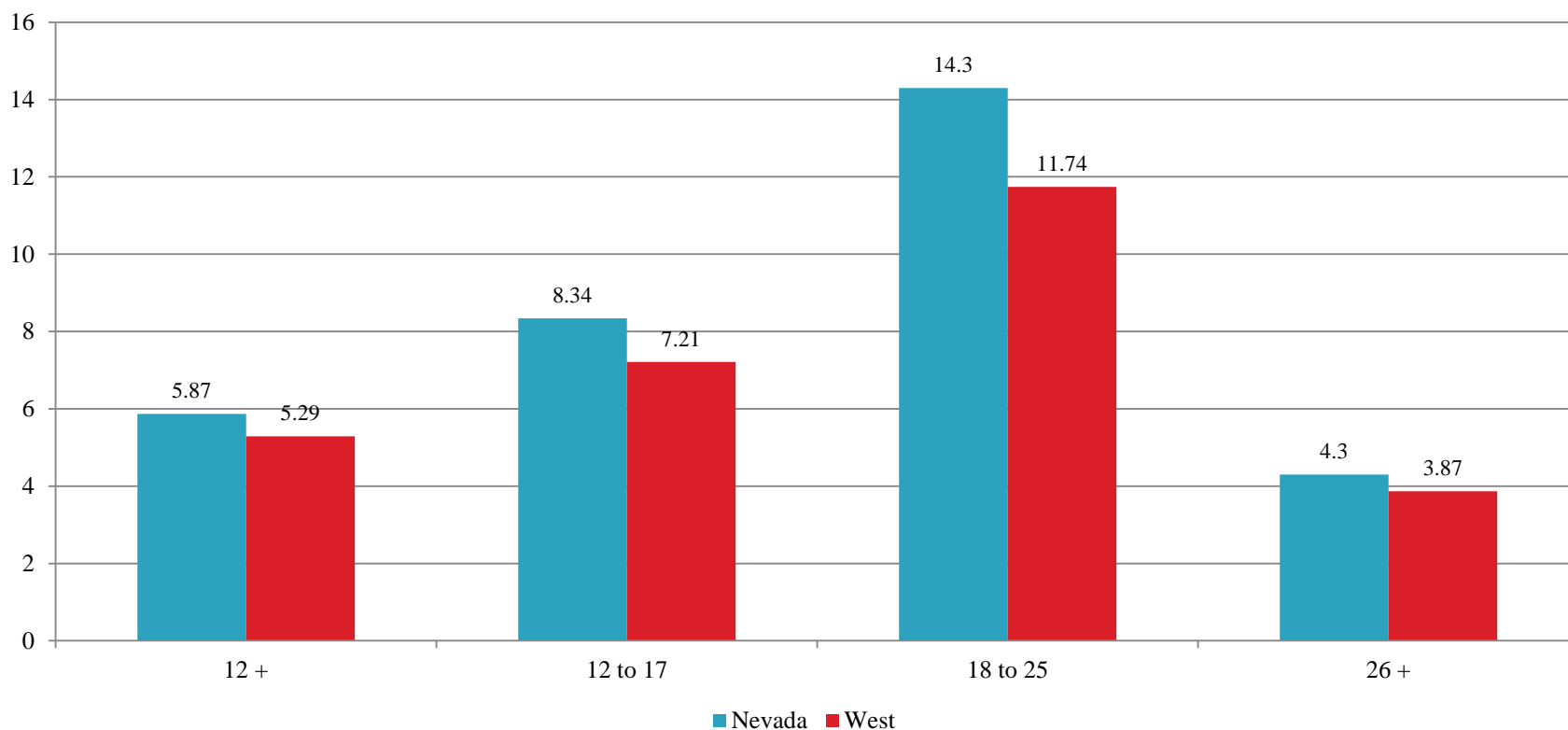


# Nevada Compared to Other Western States

- ▶ More Nevadans abuse prescription drugs than their counterparts in other Western States.
- ▶ A greater percentage of people 18 to 25 abuse prescription drugs than those in other age groups.

# Prescription Drug Abuse in NV and Western States

NSDUH 2009 Ages of Prescription Drug Abusers  
NV and Western States



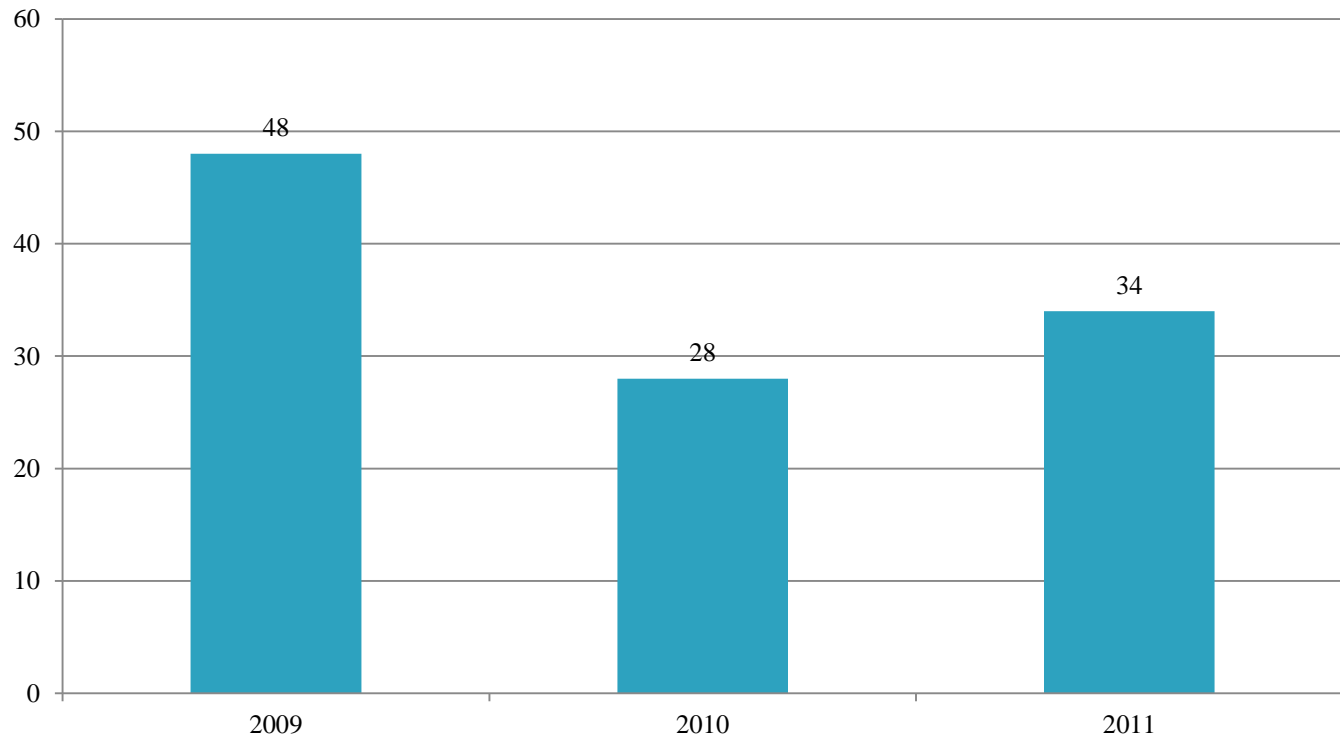
# **Drugs of Choice of those Treated at SAPTA Funded Programs**

- ▶ The following table shows the primary drugs of choice for people treated through SAPTA funded programs.
- ▶ Alcohol is the most widely abused drug in the U.S.

Substance	SFY 07	SFY 08	SFY 09	SFY 10	SFY 11	2007 - 2011 % Chng
Alcohol	4,242	4,794	5,249	4,446	4,092	-4%
Amphetamines/Methamphetamines	4,402	3,294	2,507	2,276	2,446	-44%
Anabolic Steroids	21	3	3	4	2	-90%
Barbiturates	17	7	6	4	8	-53%
Benzodiazapine	17	28	27	48	75	341%
Cocaine (powder)	323	306	305	225	163	-50%
Crack	636	743	624	520	375	-41%
Ecstasy (XTC), MDMA	24	21	46	39	26	8%
Ephedrine/Psuedophedrine	0	2	0	0	0	0%
GHB/GBL/1,4 Butanediol	0	2	0	2	0	0%
Hallucinogens	6	13	20	23	14	133%
Heroin	564	763	1,044	1,024	1,148	104%
Inhalants	3	16	6	12	15	400%
Ketamine	2	0	0	1	1	-50%
Marijuana/Hashish	1,918	1,905	1,880	1,831	2,011	5%
Non-Rx Methadone	7	6	4	7	7	0%
Other	49	25	24	19	16	-67%
Other Opiate/Synthetic Opiate	346	484	609	605	734	112%
Other Sedatives/Hypnotics	14	7	22	19	33	136%
Other Stimulants	2	1	3	1	6	200%
Over-the-Counter Drugs	12	7	11	13	9	-25%
PCP	11	15	26	12	8	-27%
Tranquilizers	2	2	3	0	1	-50%
Rohypnol	0	0	1	0	0	0%
Total	12,618	12,444	12,420	11,131	11,190	-11%

# Prescription Drug Overdoses, Washoe County

Washoe County Prescription Drug Overdose Deaths  
(Data for 2011 only through November)

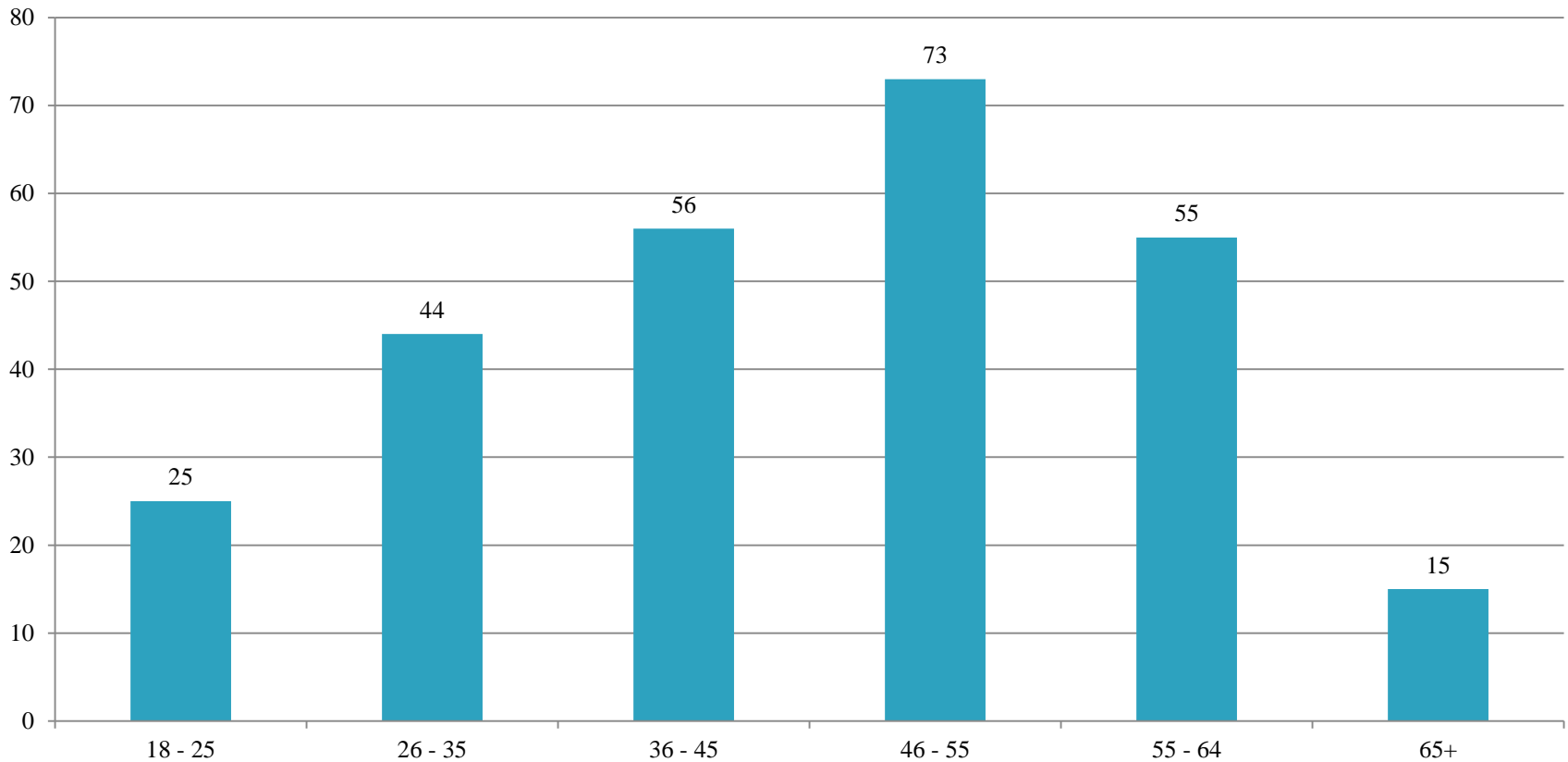


# Prescription Drug Overdoses Deaths Clark County, 2010

- ▶ The majority of people (64%) who overdose on prescription drugs are between 36 and 64 years old.
  - ▶ Prescription drugs most commonly used in overdose deaths are methadone, oxycodone, and hydrocodone.
  - ▶ People who die of overdoses have between 4 and 14 different drugs in their systems at the time of death.
  - ▶ Eighty-five percent of overdose deaths are ruled accidental, about 10% are unknown and 5% suicides.
- 
- ▶ Source: The Clark County Office of the Coroner/Medical Examiner, 2010.

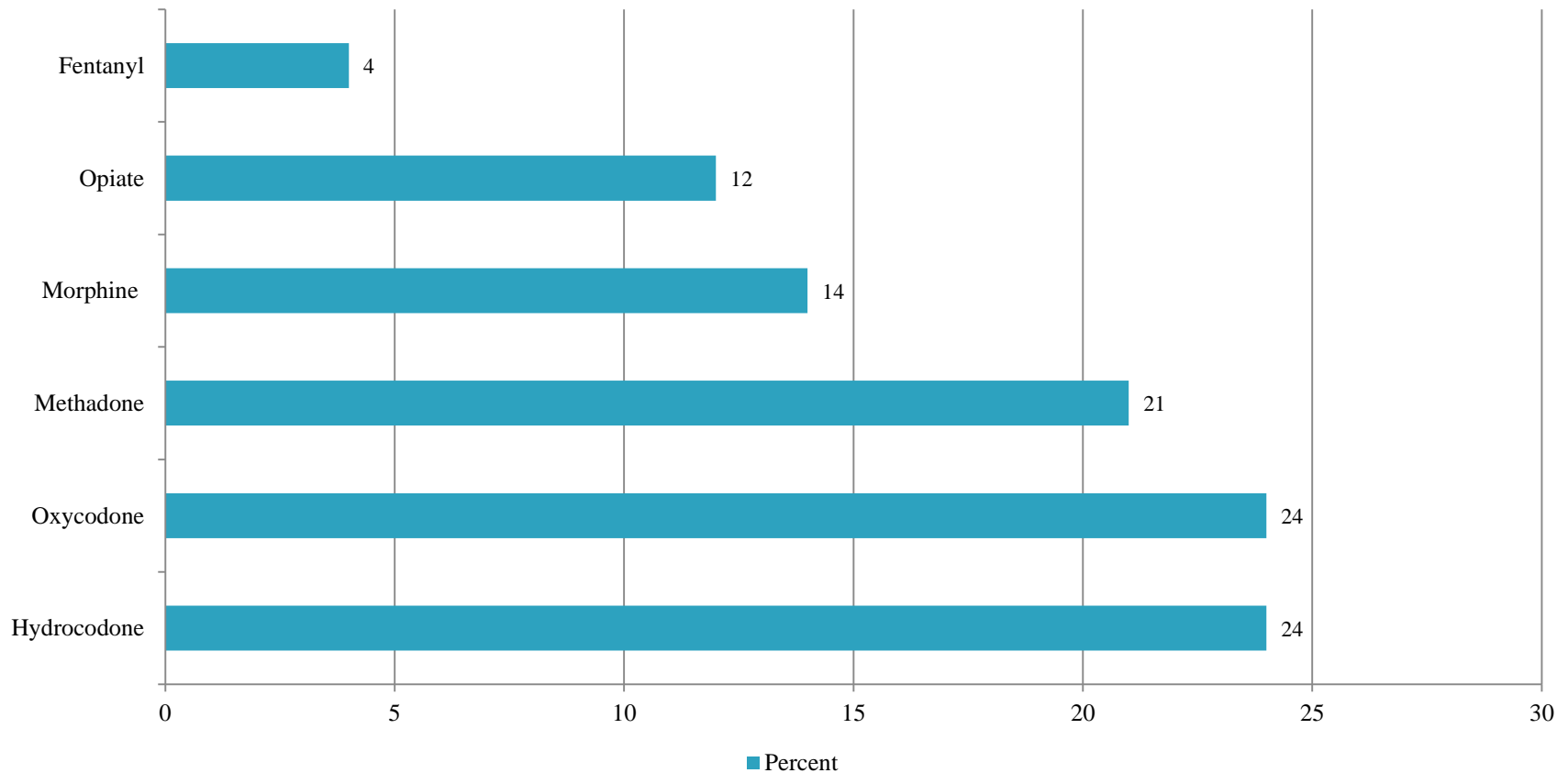
# Ages of Prescription Drug Overdose Deaths Clark County 2010

Ages of Prescription Drug Overdoses Clark County 2010  
N= 288



# Prescription Drugs Used In Overdose Deaths, Clark County 2010

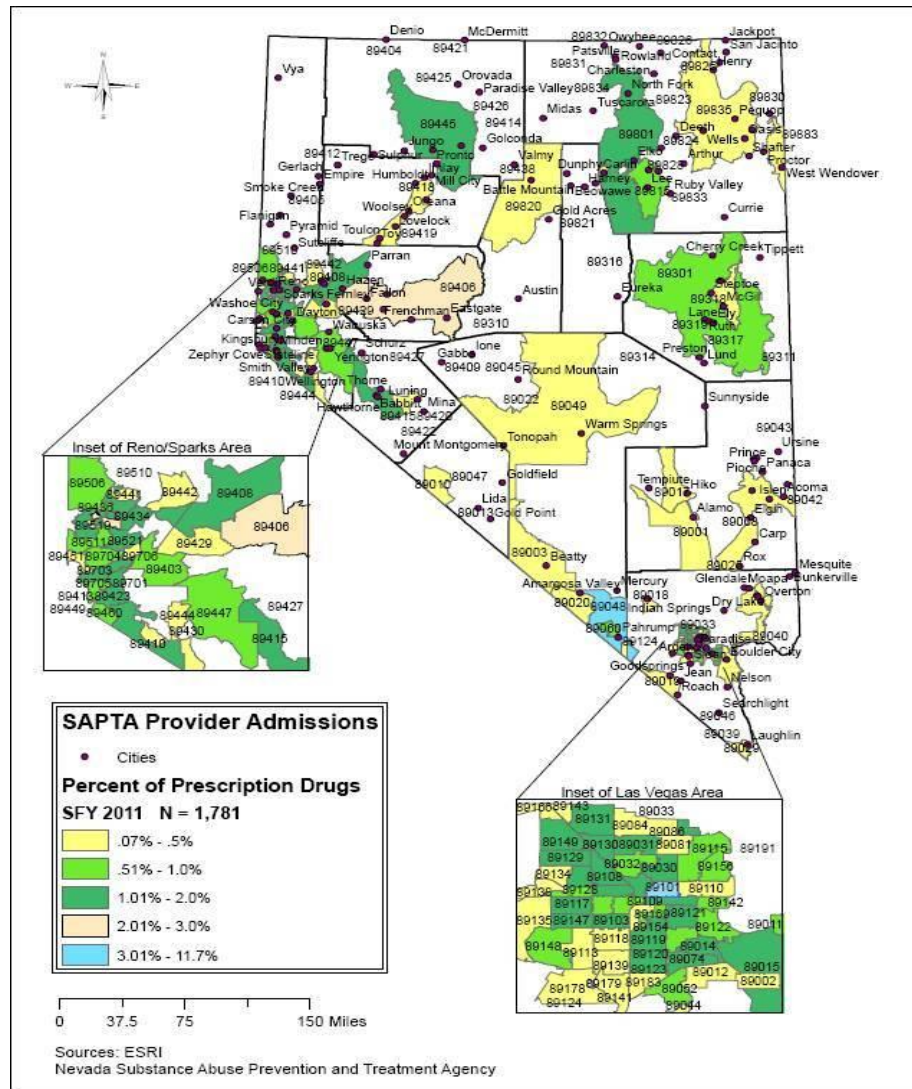
Percentage of Prescription Drug Overdoses Using:



# Prescription Drug Treatment by Zip Code, 2010

- ▶ The following map shows the resident zip codes of people for prescription drug abuse.
- ▶ The tan and light blue colors indicate areas in which higher numbers of people were treated for prescription drug abuse.

# Map



# Synthetic Drug Abuse

# Synthetic Drugs, Poison Control Centers

- ▶ The medical experts at the America's 57 poison centers first raised the alarm about synthetic marijuana in 2009 and bath salts in 2010 after they started receiving calls about people having serious, life-threatening reactions to the substances.
- ▶ In 2010, poison centers nationwide responded to 3,200 calls related to synthetic drugs. In 2011, that number jumped to 13,000. 60% of the cases were people 25 or younger.
- ▶ In October 2011, the DEA made manufacture and sale of bath salts illegal.

# Synthetic Marijuana (THC)

- Called Spice, K2

First encountered in November 2008 by Customs and Border Protection.

In 2010 there were 2,915 Spice related calls to Poison Control Centers nationwide and that number nearly doubled in 2011 to 5,741 calls.

Symptoms include agitation, anxiety, nausea, vomiting, tachycardia, high blood pressure, seizures, hallucinations and paranoia.

# Bath Salts

Bath salts: Synthetic cocaine, methamphetamine like.

Also known as:

Bliss, Blue Silk, Cloud Nine, Drone, Energy-1, Ivory Wave, Lunar Wave, Meow Meow, Ocean Burst, Pure Ivory, Purple Wave, Red Dove, Snow Leopard, Stardust, Vanilla Sky, White Dove, White Knight, and White Lightning.

Contain active ingredient Mephedrone

Symptoms include tachycardia, kidney failure, delusions/hallucinations, psychosis, paranoia, suicide and death.

# Availability

- ▶ Until October 2011, bath salts could be purchased at gas stations, convenience stores, head shops and on the Internet.

## Clusters of cases

- November 2010 to March 2011, Marquette, MI: 35 people sought treatment at the ER after using bath salts, one died. Ages 20 to 55.
- Casper, WY: 14 people were diagnosed with kidney failure and hospitalized after using Spice March 4, 2012. Ages 15 to 30.
- Bangor, Maine has had 3 bath salt deaths since October 2011.

## LEGAL INFORMATION

The key ingredients of bath salts have been banned or made illegal in some European countries. As of September 2011, thirty-three states in the US have taken action to ban or control synthetic stimulants.

On September 7, 2011, the United States Drug Enforcement Administration (DEA) used its "emergency scheduling authority to temporarily control three synthetic stimulants (Mephedrone, 3,4 methylenedioxypyrovalerone (MDPV) and Methylone). This action was necessary to protect the public from the imminent hazard posed by these dangerous chemicals. Except as authorized by law, this action will make possessing and selling these chemicals or the products that contain them illegal in the U.S. for at least one year while the DEA and the United States Department of Health and Human Services (DHHS) further study whether these chemicals should be permanently controlled."

For more information, visit <http://www.justice.gov/dea/pubs/pressrel/pr090711.html>

## RESOURCES NATIONAL & LOCAL

Information and images obtained from the United States Drug Enforcement Agency

[www.justice.gov/dea](http://www.justice.gov/dea)

[www.getsmartaboutdrugs.com/](http://www.getsmartaboutdrugs.com/)

ADDITIONAL INFORMATION FROM THE  
AMERICAN ASSOCIATION OF POISON  
CONTROL CENTERS

<http://www.aapcc.org>

CRISIS CALL CENTER

[www.crisiscallcenter.org](http://www.crisiscallcenter.org)

Hotline: 1-800-273-8255

Substance abuse line: 1-800-450-9530

NEVADA RESOURCES:

[www.nevadaprc.org/nv\\_res.php](http://www.nevadaprc.org/nv_res.php)

COUNTY SPECIFIC RESOURCES:

[www.nevadaprc.org/county.php](http://www.nevadaprc.org/county.php)



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Reno, NV, 89557

Phone: 775.784.6336

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Find us on Facebook: [www.Facebook.com/NevadaPRC](http://www.Facebook.com/NevadaPRC)

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## NEVADA PREVENTION RESOURCE CENTER



SYNTHETIC STIMULANTS

# BATH SALTS



University of Nevada, Reno

# SALTS

Synthetic stimulants, also known as bath salts are synthetic derivatives of cathinone.

MDPV  
(3,4-Methylenedioxypropylone),  
mephedrone, and methylene are  
synthetic stimulants similar to MDMA,  
cocaine, and amphetamines.

## LOOKS LIKE

Synthetic stimulants are sold in small packets or jars which state "not for human consumption." It is normally a white, off-white, or yellow colored powder but can also be found in tablet and capsule form.



## EFFECTS OF THE DRUG

### PSYCHOLOGICAL EFFECTS

Psychological effects are similar to those of stimulants and can be unpredictable.

They include:

- Agitation
- Intense High
- Euphoria
- Hallucinations
- Insomnia
- Delusions
- Extreme Paranoia

### PHYSIOLOGICAL EFFECTS

Physiological effects include:

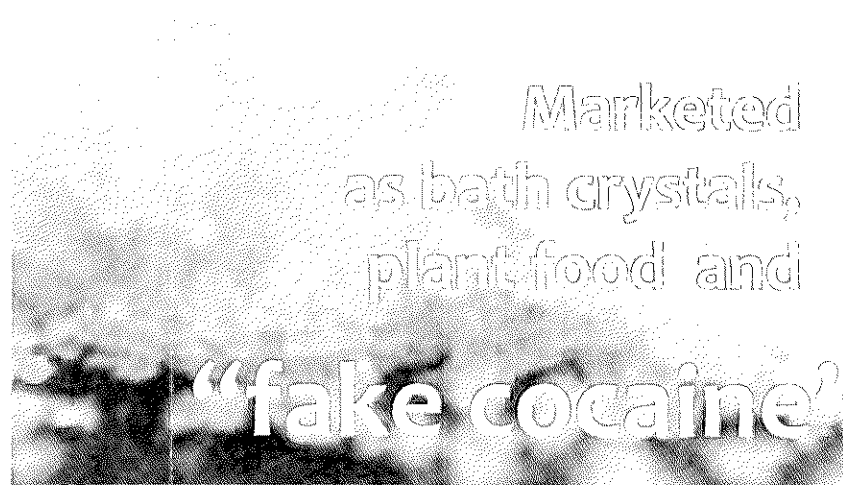
- Chest Pains
- Increased Blood Pressure
- Increased Heart Rate
- Extreme Energy
- Blurred Vision

### METHODS OF ABUSE

Synthetic stimulant products are typically abused by snorting, injection, smoking, and sometimes with an atomizer.

# STREET NAMES

Bath salts, Ivory Wave, Blue Silk, Stardust,  
Ocean Burst, White Dove, Purple Wave



## COMMON

### PLACES OF ORIGIN

Manufacturers of synthetic stimulants are not regulated, and many are in China and India. The product is sold online as well as in head shops and convenience stores.

## SYMPTOMS OF OVERDOSE

While there have been no reports of overdose, U.S. Poison Control centers have received over 4,000 calls related to MDPV in the first half of 2011. Because product contents are not listed, effects may be a symptom of overdose to one or more ingredients.

Chemical compounds of bath salts typically include  $C_{16}H_{21}NO_3$ .