

Drugs Identified in Deceased Persons by Florida Medical Examiners

2011 Interim Report



Data Collection

The Florida Department of Health, Office of Vital Statistics has recorded that approximately 90,510 deaths occurred in Florida during January through June 2011. Of these, the medical examiners reported on 4,329 drug-related deaths (whether the cause of death or merely present) through toxicology reports submitted to the Medical Examiners Commission. In order for a death to be considered “drug-related” there must be at least one drug identified in the decedent, which is a drug occurrence. The vast majority of these 4,329 cases involved more than one drug listed in the report.

The state’s medical examiners were asked to distinguish between the drugs being the “cause” of death or merely “present” in the body at the time of death. A drug is only indicated as the cause of death when, after examining all evidence and the autopsy and toxicology results, the medical examiner determines the drug played a causal role in the death. It is not uncommon for a decedent to have multiple drugs listed as a cause of death. When a medical examiner determines a drug is present or identifiable in the decedent, the drug may not have played a causal role in the death. It is not uncommon for a decedent to have multiple drugs listed as present. Because decedents often have multiple drugs listed as cause and/or present, drug occurrence data found within this report should not be aggregated.

Data was collected on the following drugs:

- ✓ Benzodiazepines (Alprazolam, Alpha-hydroxyalprazolam, Clonazepam, 7-Aminoclonazepam, Chlordiazepoxide, Desalkylflurazepam, Diazepam, Estazolam, Flunitrazepam, Flurazepam, Lorazepam, Midazolam, Nordiazepam, Oxazepam, Temazepam, Triazolam, and Alpha-hydroxytriazolam);
- ✓ Cannabinoids;
- ✓ Carisoprodol/Meprobamate;
- ✓ Cocaine;
- ✓ Ethyl Alcohol;
- ✓ Gamma-Hydroxybutyric Acid (GHB);
- ✓ Inhalants (Chlorodifluoromethane, Difluoroethane, Freon, Helium, Nitrous Oxide, and Toluene);
- ✓ Ketamine;
- ✓ Methylated Amphetamines (Amphetamines, Methamphetamine, MDMA (Ecstasy), MDA, MDEA, and Phentermine);
- ✓ Opioids (Buprenorphine, Codeine, Fentanyl, Heroin, Hydrocodone, Hydromorphone, Meperidine, Methadone, Morphine, Oxycodone, Oxymorphone, and Tramadol);
- ✓ Phencyclidine (PCP); and
- ✓ Zolpidem.

The Medical Examiners Commission began tracking Alpha-hydroxyalprazolam, Chlordiazepoxide, Chlorodifluoromethane, Clonazepam, 7-Aminoclonazepam, Desalkylflurazepam, Estazolam, Flurazepam, Lorazepam, Midazolam, Nordiazepam, Oxazepam, Temazepam, Triazolam, Alpha-hydroxytriazolam, Helium, Toluene, and Codeine in January 2010.

Cannabinoids are not a targeted assay in every medical examiner district; as a result, the occurrence of the drug is significantly under reported.

Pending cases are not included in this report.

Questions regarding this report can be directed to the Medical Examiners Commission Chairman, Bruce A. Hyma, M.D., or Commission staff.

Report Summary

Some general statewide trends for the first half of 2011 (January – June) are listed below.

- ✓ The four most frequently occurring drugs found in decedents were all Benzodiazepines (1,525 including 950 Alprazolam occurrences) Ethyl Alcohol (1,982), Oxycodone (1,058), and Cocaine (679).
- ✓ The drugs that caused the most deaths were all Benzodiazepines (545 – includes 461 deaths caused by Alprazolam) Oxycodone (607), Methadone (341), Ethyl Alcohol (269), and Cocaine (294).
- ✓ The four drugs where more than 50% of the deaths in which these drugs were found were caused by Heroin (95.0%), Methadone (72.2%), Oxycodone (57.4%) and Fentanyl (57.0%).
- ✓ The prescription drugs (Benzodiazepines, Carisoprodol/Meprobamate, Zolpidem, and all Opioids excluding Heroin) tracked through this report continued to be found more often than illicit drugs in both causing death (87%) and merely present (81%) levels. Prescription drugs account for 85% of all drug occurrences in this report when Ethyl Alcohol is excluded. Carisoprodol/Meprobamate are rarely the sole cause of death, but are common as contributing to the cause of multi-drug deaths.
- ✓ Occurrences of Oxycodone (-10.4%) and Hydrocodone (-12.4%) decreased when compared with the last six months of 2010. Also, deaths caused by Oxycodone (150 less than July-December 2010) and Hydrocodone (26 less than July – December 2010) decreased.
- ✓ Heroin continues to be the most lethal drug named in this report. Occurrences of Heroin have increased by 15% and deaths caused by Heroin increased by 23.5% when compared with the last six months of 2010.
- ✓ Methadone occurrences decreased by 4.6% and deaths caused by Methadone also decreased by 4.7%.
- ✓ Cocaine occurrences declined by 7.0% and deaths caused by Cocaine increased 1.0%.
- ✓ Occurrences of Alprazolam (Xanax) (-12.9%) and Diazepam (Valium) (-8.8%) decreased when compared with the last six months of 2010. Also, deaths caused by Alprazolam (31 less than July – December 2010) and Diazepam (11 less than July – December 2010) decreased.
- ✓ Occurrences of Carisoprodol/Meprobamate, all Methylated Amphetamine cases, and Zolpidem decreased (-12.3%) when compared to July-December 2010.
- ✓ 2,609 individuals died with one or more prescription drugs in their system. The drugs were at both lethal and non-lethal levels. These drugs may have also been mixed with illicit drugs and alcohol.
- ✓ 1,175 individuals died with at least one prescription drug in their system that was, in the opinion of the medical examiner, the cause of death. These drugs may have been mixed with other prescription drugs, illicit drugs, and/or alcohol.

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Table of Contents

Table or Chart	Page
Map of Florida Medical Examiner Districts	1
Summary of Drug-Related Deaths (January – June 2011)	2
Frequency of Occurrence of Drugs in Decedents (January – June 2011)	4
Drug Detected at Death: Cause vs. Present	5
Comparison of Last Half of 2010 & First Half of 2011 Drug-Related Deaths	8
Drug Caused Deaths (January 2011 – June 2011)	10
Alprazolam Deaths	11
Alprazolam Deaths by Age	12
Diazepam Deaths	13
Diazepam Deaths by Age	14
Oxycodone Deaths	15
Oxycodone Deaths by Age	16
Hydrocodone Deaths	17
Hydrocodone Deaths by Age	18
Methadone Deaths	19
Methadone Deaths by Age	20
Morphine Deaths	21
Morphine Deaths by Age	22
Cocaine Deaths	23
Cocaine Deaths by Age	24
Heroin Deaths	25
Heroin Deaths by Age	26
Frequency of Occurrence of Other Benzodiazepines (January – June 2011)	27
Manners of Death for Cases Reported	28
Glossary	31

Florida Medical Examiner Districts

District 1

Escambia
Okaloosa
Santa Rosa
Walton

District 2

Franklin
Gadsden
Jefferson
Leon
Liberty
Taylor
Wakulla

District 3 *Covered by

Columbia *4
Dixie *8
Hamilton *4
Lafayette *4
Madison *2
Suwannee *4

District 4

Clay
Duval
Nassau

District 5

Citrus
Hernando
Lake
Marion
Sumter

District 6

Pasco
Pinellas

District 7

Volusia

District 8

Alachua
Baker
Bradford
Gilchrist
Levy
Union

District 9

Orange
Osceola

District 10

Hardee
Highlands
Polk

District 11

Dade

District 12

DeSoto
Manatee
Sarasota

District 13

Hillsborough

District 14

Bay
Calhoun
Gulf
Holmes
Jackson
Washington

District 15

Palm Beach

District 16

Monroe

District 17

Broward

District 18

Brevard

District 19

Indian River

Martin

Okeechobee

St. Lucie

District 20

Collier

District 21

Glades

Hendry

Lee

District 22

Charlotte

District 23

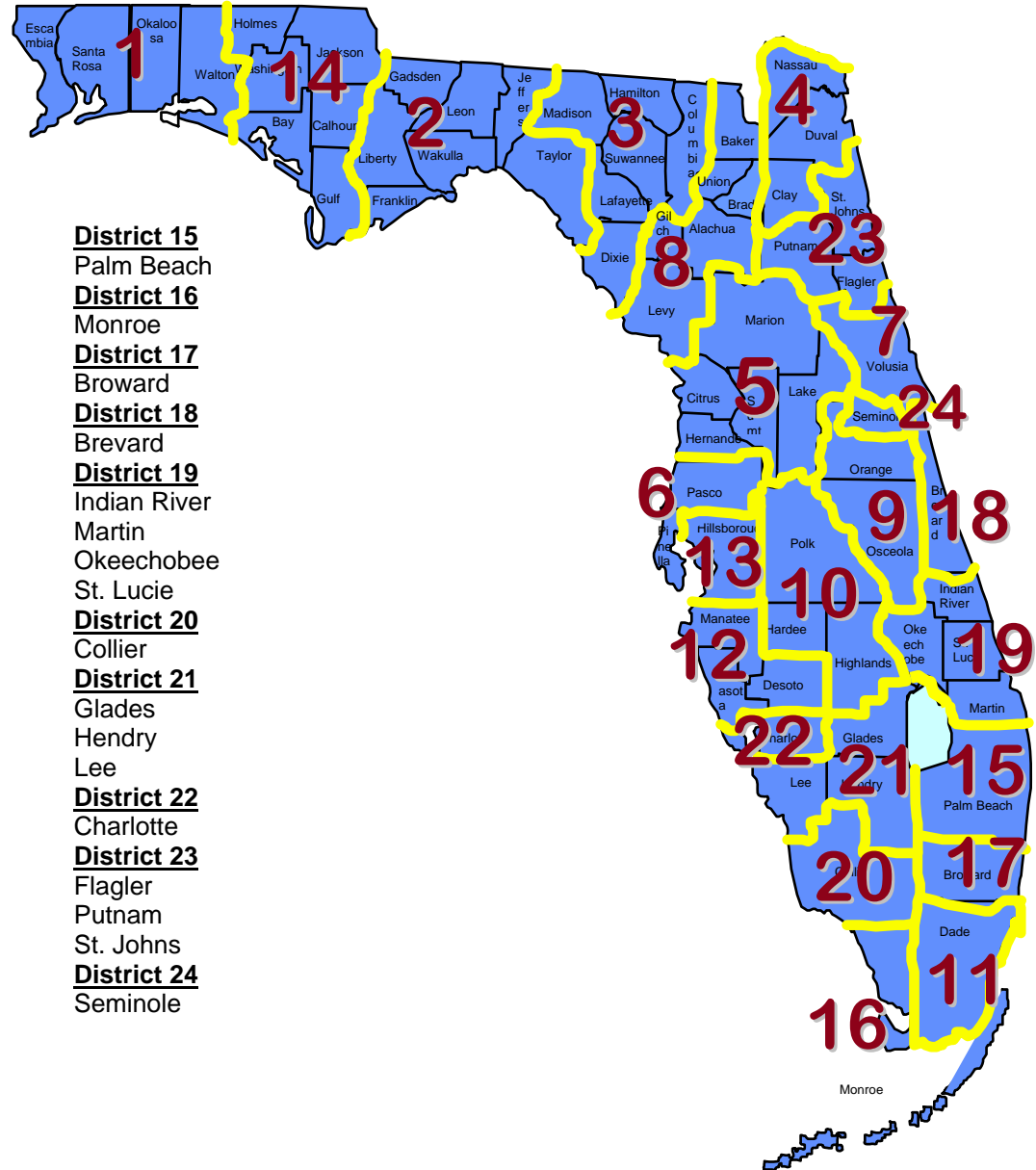
Flagler

Putnam

St. Johns

District 24

Seminole



Summary of Drug-Related Deaths January – June 2011

Drug Found in Body		Total Occurrences	Cause	Present
Ethanol		1982	269	1713
Amphetamines	All Methylated Amphetamine cases*	121	35	86
	Amphetamine	96	13	83
	Methamphetamine	57	19	38
	MDMA	15	5	10
	MDA	6	1	5
	MDEA	1	0	1
	Phentermine	4	1	3
	Benzodiazepines	All Benzodiazepine cases*	1525	545
Alprazolam		950	461	489
Alpha-hydroxyalprazolam		157	9	148
Clonazepam		56	15	41
7-Aminoclonazepam		115	11	104
Chlordiazepoxide		28	4	24
Desalkylflurazepam		6	2	4
Diazepam		405	126	279
Estazolam		0	0	0
Flunitrazepam		0	0	0
Flurazepam		6	1	5
Lorazepam		88	12	76
Midazolam		57	1	56
Nordiazepam		387	89	298
Oxazepam		216	17	199
Temazepam		299	57	242
Triazolam		4	2	2
Alpha-hydroxytriazolam		0	0	0

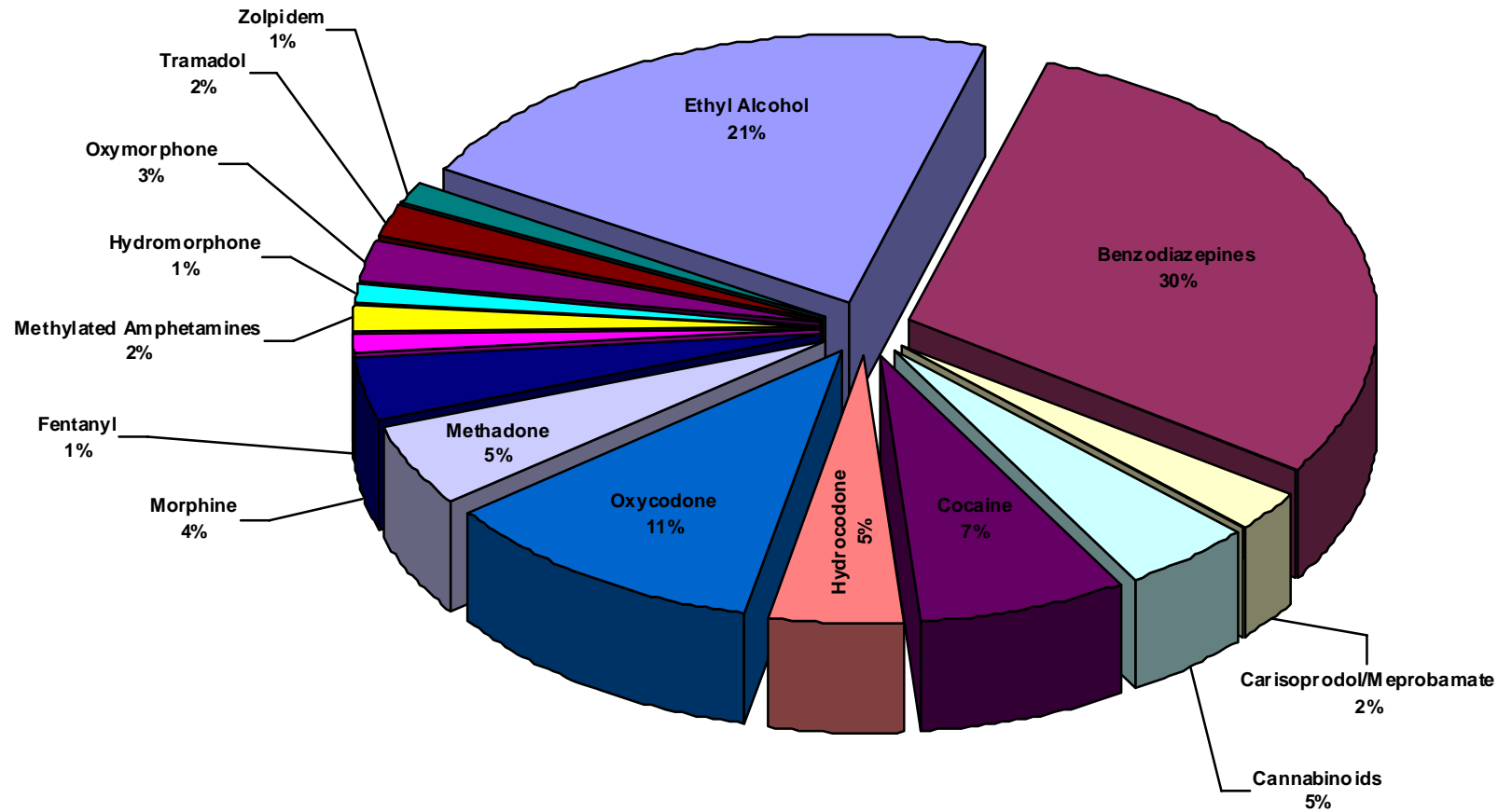
*Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs listed is greater than the number of cases.

Summary of Drug-Related Deaths (continued)

	Drug Found in Body	Total Occurrences	Cause	Present
Inhalants	Chlorodifluoromethane	2	2	0
	Difluoroethane	11	10	1
	Freon	1	1	0
	Helium	4	3	1
	Nitrous Oxide	0	0	0
	Toluene	0	0	0
Opioids	Buprenorphine	11	3	8
	Codeine	100	20	80
	Fentanyl	100	57	43
	Heroin	20	19	1
	Hydrocodone	432	136	296
	Hydromorphone	102	32	70
	Meperidine	7	1	6
	Methadone	472	341	131
	Morphine	345	144	201
	Oxycodone	1,058	607	451
	Oxymorphone	236	66	170
	Tramadol	180	36	144
	Cannabinoids	427	0	427
Other	Carisoprodol/Meprobamate	232	76	156
	Cocaine	679	294	385
	GHB	3	1	2
	Ketamine	1	0	1
	Phencyclidine (PCP)	1	1	0
	Zolpidem	118	29	89

**Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs listed is greater than the number of cases.*

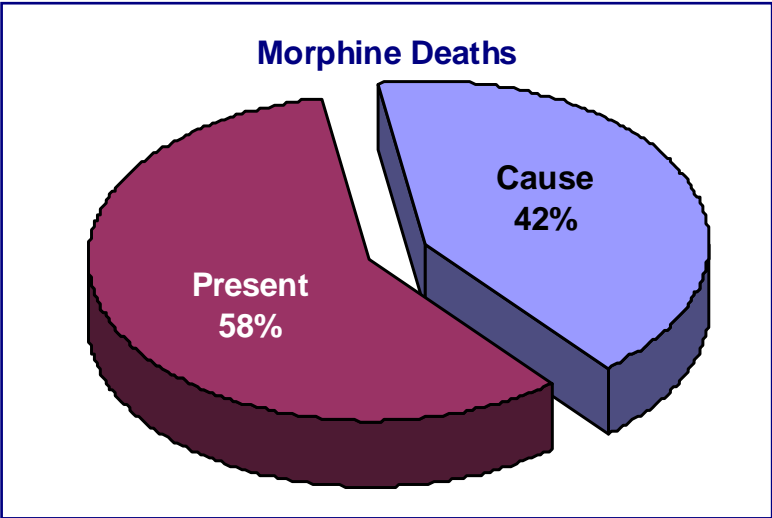
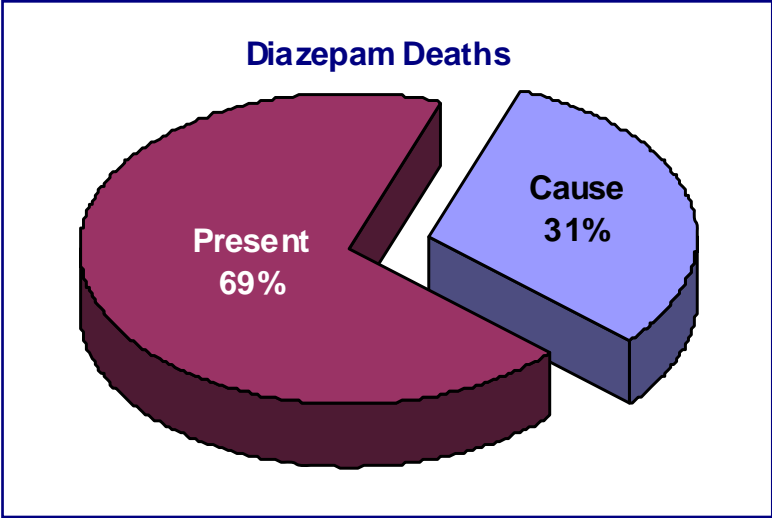
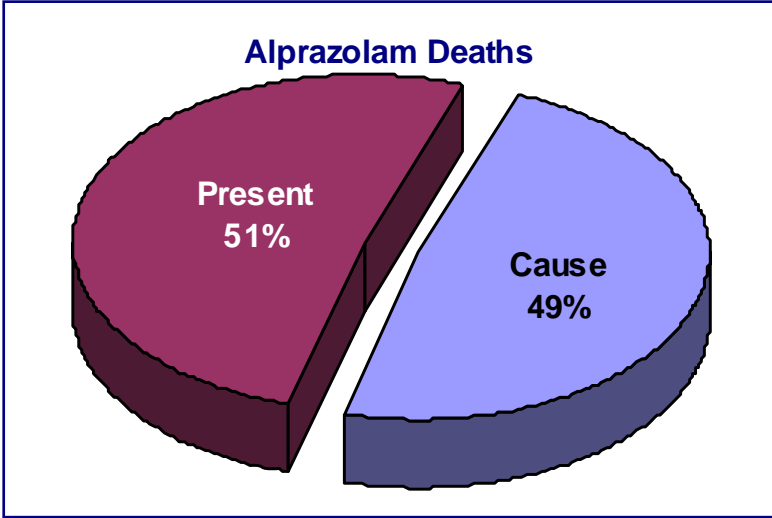
Frequency of Occurrence of Drugs in Decedents January – June 2011



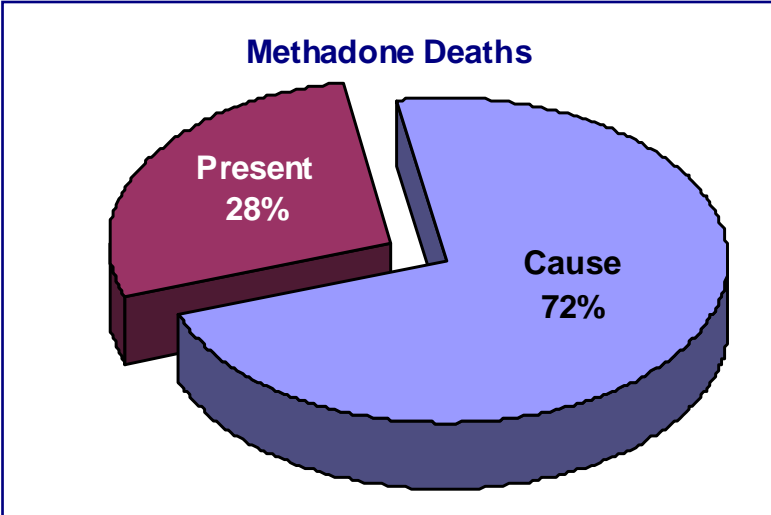
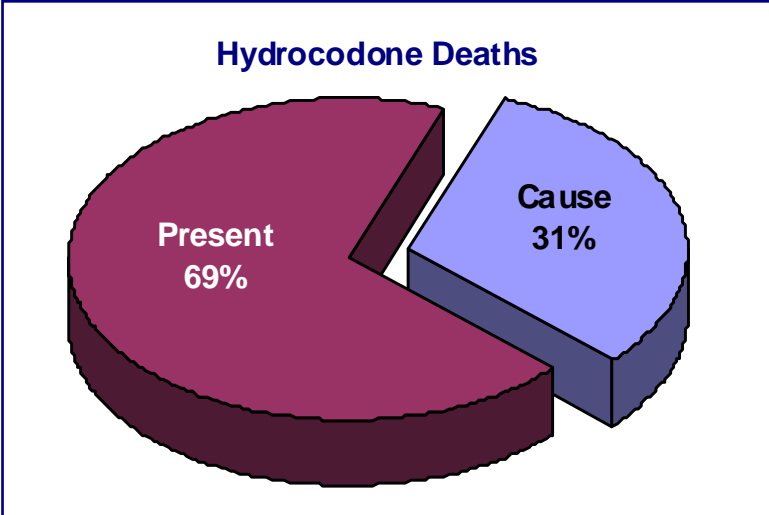
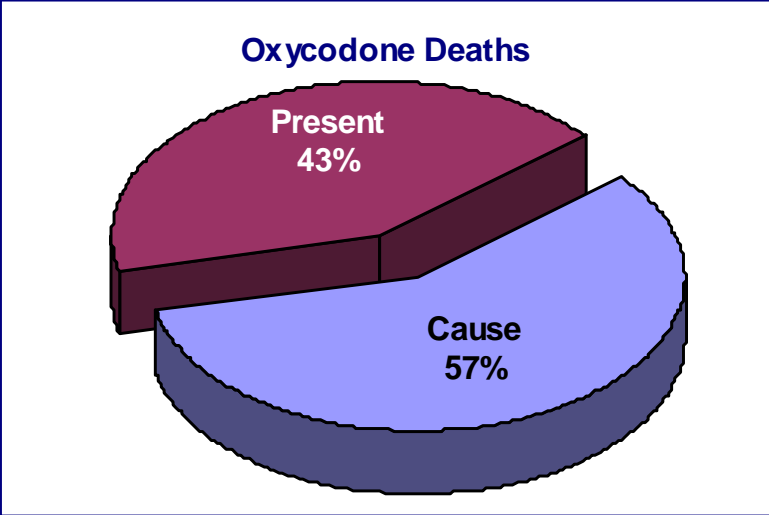
Heroin, Codeine, GHB, PCP, Ketamine, Freon, Meperidine, all tracked inhalants, and Buprenorphine constituted less than 1% of the drug frequencies.

Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs is greater than the number of cases.

Drug Detected at Death: Cause vs. Present

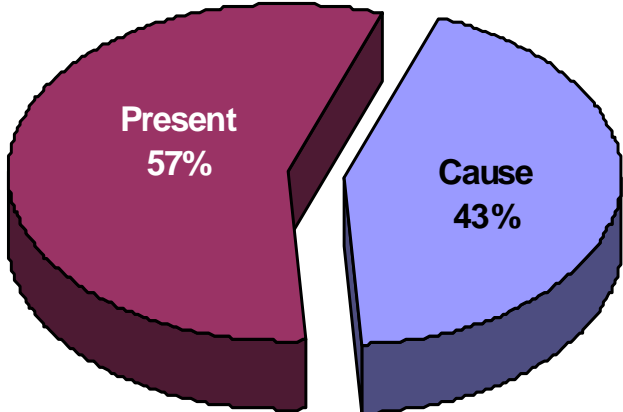


Drug Detected at Death: Cause vs. Present

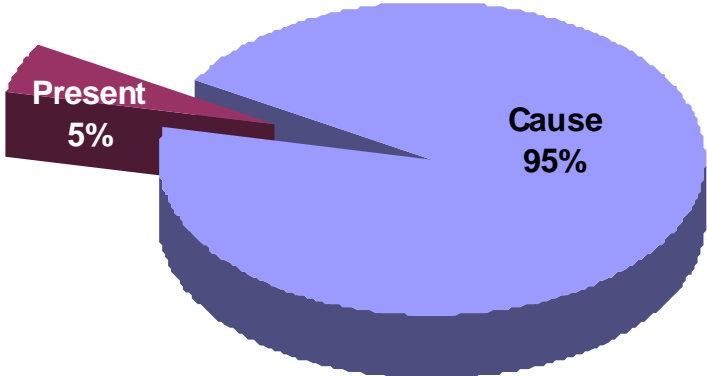


Drug Detected at Death: Cause vs. Present

Cocaine Deaths



Heroin Deaths



Comparison of Drug-Related Deaths July – December 2010 vs. January – June 2011

Drug Found in Body		July-December 2010	January-June 2011	Percentage Change
	Ethanol	2005	1,982	-1.1%
Amphetamines	All Methylated Amphetamine cases*	193	121	-37.3%
	Amphetamine	97	96	-1%
	Methamphetamine	69	57	-17.4%
	MDMA	40	15	*
	MDA	23	6	-73.9%
	MDEA	1	1	*
	Phentermine	11	4	*
	Benzodiazepines	All Benzodiazepine cases*	2006	1525
Alprazolam		1,091	950	-12.9%
Alpha-hydroxyalprazolam		148	157	5.7%
Clonazepam		58	56	-3.4%
7-Aminoclonazepam		127	115	-9.4%
Chlordiazepoxide		47	28	-40.4%
Desalkylflurazepam		2	6	*
Diazepam		444	405	-8.8%
Estazolam		1	0	*
Flunitrazepam		0	0	*
Flurazepam		3	6	*
Lorazepam		112	88	-21.4%
Midazolam		46	57	19.3%
Nordiazepam		447	387	-13.4%
Oxazepam		240	216	-10%
Temazepam		349	299	-14.3%
Triazolam		0	4	*
Alpha-hydroxytriazolam		2	0	*

*Note: Due to small number of occurrences, percentage change was not calculated.

Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs listed is greater than the number of cases.

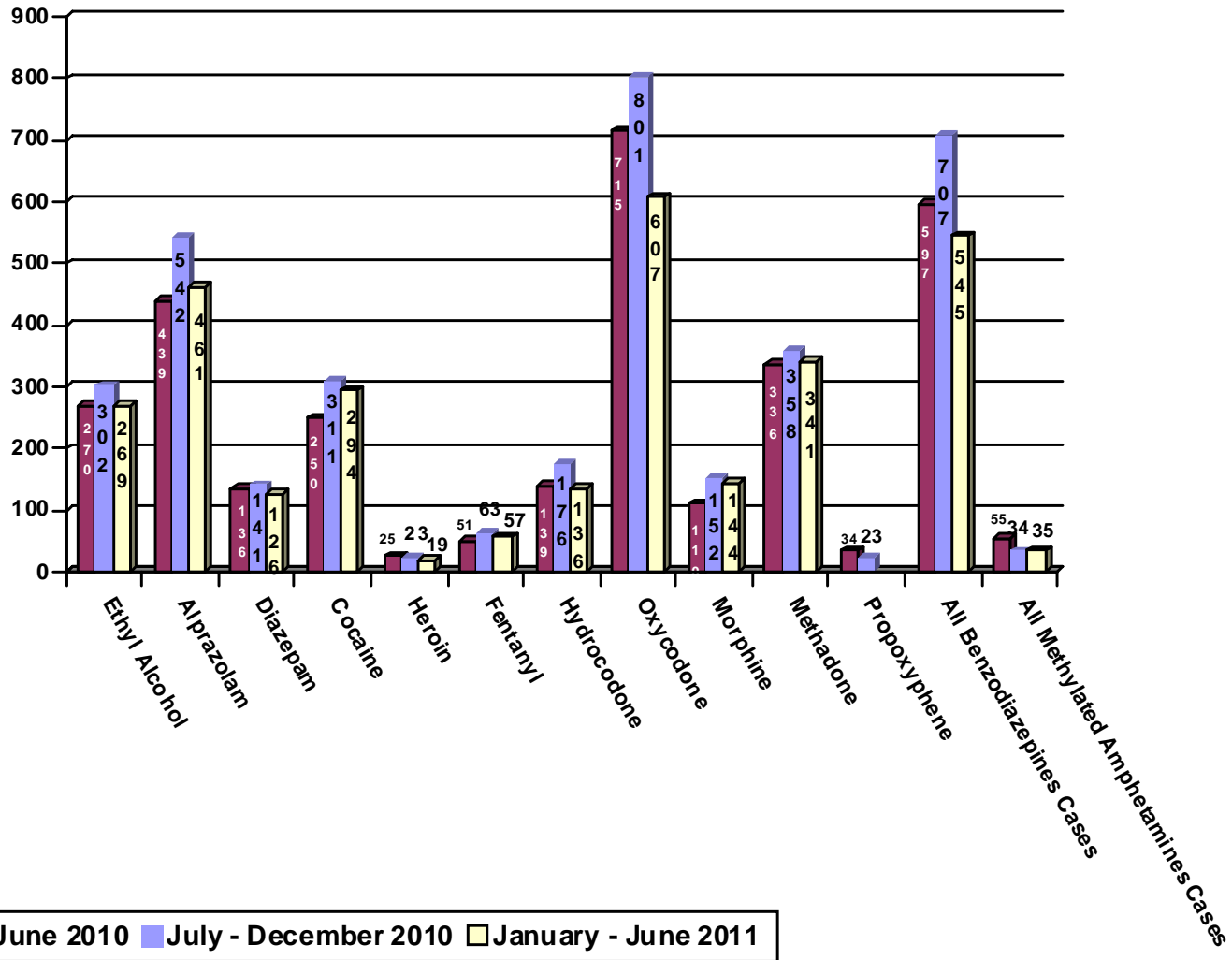
Comparison of Drug-Related Deaths (continued)

Drug Found in Body		July-December 2010	January-June 2011	Percentage Change
Inhalants	Chlorodifluoromethane	2	2	*
	Difluoroethane	9	11	*
	Freon	1	1	*
	Helium	6	4	*
	Nitrous Oxide	0	0	*
	Toluene	0	0	*
Opioids	Buprenorphine	12	11	*
	Codeine	74	100	35%
	Fentanyl	121	100	-17.4%
	Heroin	17	20	17.6%
	Hydrocodone	493	432	-12.4%
	Hydromorphone	111	102	-8.1%
	Meperidine	6	7	*
	Methadone	495	472	-4.6%
	Morphine	320	345	7.2%
	Oxycodone	1,181	1,058	-10.4%
	Oxymorphone	249	236	-5.2%
	Tramadol	147	180	18.3%
	Cannabinoids	406	427	4.9%
Other	Carisoprodol/Meprobamate	273	232	-15%
	Cocaine	730	679	-7.0%
	GHB	3	3	*
	Ketamine	0	1	*
	Phencyclidine (PCP)	0	1	*
	Zolpidem	128	118	-7.8%

**Note: Due to small number of occurrences, percentage change was not calculated.*

Note: Many of the deaths were found to have several drugs contributing to the death, thus the count of specific drugs listed is greater than the number of cases.

Drug Caused Deaths January 2010 – June 2011



Note: Due to small number of occurrences, some drugs are not included in the above chart.

Alprazolam Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Alprazolam		
Total	Cause	Present
28	5	23
9	0	9
8	3	5
46	17	29
46	22	24
110	74	36
37	6	31
21	17	4
59	23	36
32	0	32
63	26	37
55	37	18
92	62	30
20	9	11
52	32	20
11	8	3
105	67	38
37	10	27
27	4	23
16	11	5
28	15	13
15	3	12
12	8	4
21	2	19
950	461	489

Deaths with Alprazolam Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
2	1	1
0	0	0
0	0	0
2	0	2
0	0	0
10	0	10
0	0	0
7	1	6
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
3	0	3
0	0	0
0	0	0
0	0	0
2	0	2
0	0	0
0	0	0
26	2	24

Deaths with Alprazolam in Combination with Other Drugs		
Total	Cause	Present
28	5	23
9	0	9
8	3	5
46	17	29
46	22	24
108	73	35
47	6	35
21	17	4
57	23	34
32	0	32
53	26	27
55	37	18
85	61	24
20	9	11
52	32	20
11	8	3
105	67	38
34	10	24
27	4	23
16	11	5
28	15	13
13	3	10
12	8	4
21	2	19
924	459	465

Alprazolam Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	28
2	Tallahassee	9
3	Live Oak	8
4	Jacksonville	46
5	Leesburg	46
6	St. Petersburg	110
7	Daytona Beach	37
8	Gainesville	21
9	Orlando	59
10	Lakeland	32
11	Miami	63
12	Sarasota	55
13	Tampa	92
14	Panama City	20
15	West Palm Beach	52
16	Florida Keys	11
17	Ft. Lauderdale	105
18	Melbourne	37
19	Ft. Pierce	27
20	Naples	16
21	Ft. Myers	28
22	Port Charlotte	15
23	St. Augustine	12
24	Sanford	21
Statewide Totals		950

Alprazolam Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
5	0	0	2	2	1	
0	0	0	0	0	0	
3	0	0	2	0	1	
17	0	1	5	7	4	
22	0	3	5	5	9	
74	0	5	16	35	18	
6	0	0	3	1	2	
17	0	1	3	9	4	
23	1	3	4	11	4	
0	0	0	0	0	0	
26	1	3	3	14	5	
37	0	8	9	14	6	
62	0	6	15	25	16	
9	0	2	1	5	1	
32	0	7	9	10	6	
8	0	1	2	2	3	
67	0	5	11	34	17	
10	0	1	0	4	5	
4	0	1	2	1	0	
11	0	1	2	8	0	
15	0	1	7	6	1	
3	0	0	1	2	0	
8	0	2	2	4	0	
2	0	0	0	2	0	
461	2	51	104	201	103	

Alprazolam Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
23	0	6	7	7	3	
9	0	1	3	3	2	
5	1	1	1	1	1	
29	1	3	0	17	8	
24	0	4	6	6	8	
36	0	0	7	16	13	
31	1	4	8	13	5	
4	0	0	1	2	1	
36	0	3	7	18	8	
32	0	4	4	11	13	
37	0	2	5	9	21	
18	0	3	2	4	9	
30	1	3	2	10	14	
11	0	0	2	4	5	
20	0	3	2	6	9	
3	0	0	0	0	3	
38	0	2	4	16	16	
27	0	5	6	10	6	
23	0	2	3	10	8	
5	0	1	1	1	2	
13	0	1	1	6	5	
12	0	1	2	3	6	
4	0	0	1	2	1	
19	0	1	2	9	7	
489	4	50	77	184	174	

Diazepam Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	4
2	Tallahassee	4
3	Live Oak	12
4	Jacksonville	39
5	Leesburg	23
6	St. Petersburg	72
7	Daytona Beach	6
8	Gainesville	6
9	Orlando	36
10	Lakeland	11
11	Miami	17
12	Sarasota	21
13	Tampa	15
14	Panama City	5
15	West Palm Beach	19
16	Florida Keys	7
17	Ft. Lauderdale	33
18	Melbourne	18
19	Ft. Pierce	22
20	Naples	4
21	Ft. Myers	13
22	Port Charlotte	2
23	St. Augustine	7
24	Sanford	9
Statewide Totals		405

Diazepam Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
1	0	0	1	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
8	0	2	0	4	2	
1	0	0	0	1	0	
45	0	3	6	24	12	
0	0	0	0	0	0	
4	0	0	0	1	3	
1	0	0	0	0	1	
0	0	0	0	0	0	
3	0	1	0	2	0	
16	0	2	5	3	6	
5	0	0	0	2	3	
1	0	1	0	0	0	
7	0	0	1	2	4	
4	0	0	1	2	1	
18	0	0	2	6	10	
5	0	0	0	0	5	
0	0	0	0	0	0	
2	0	0	1	1	0	
3	0	2	0	1	0	
0	0	0	0	0	0	
2	0	0	1	0	1	
0	0	0	0	0	0	
0	0	0	0	0	0	
126	0	11	18	49	48	

Diazepam Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
3	0	0	0	1	2	
4	0	1	1	0	2	
12	0	1	3	3	5	
31	0	0	2	10	19	
22	0	2	9	3	8	
27	1	2	1	10	13	
6	1	0	0	3	2	
2	0	1	0	1	0	
35	0	0	8	9	18	
11	0	0	1	0	10	
14	0	0	1	6	7	
5	1	1	0	2	1	
10	0	1	1	3	5	
4	0	0	0	3	1	
12	0	3	2	5	2	
3	0	0	0	1	2	
15	0	0	0	4	11	
13	0	0	2	4	7	
22	0	2	5	7	8	
2	0	0	0	1	1	
10	0	0	1	1	8	
2	0	0	0	0	2	
5	0	0	0	3	2	
9	0	1	2	3	3	
279	3	15	39	83	139	

Oxycodone Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Oxycodone		
Total	Cause	Present
13	8	5
9	3	6
11	4	7
54	27	27
60	42	18
171	109	62
28	12	16
11	6	5
88	47	41
18	1	17
47	19	28
50	37	14
98	60	38
11	5	6
56	37	19
13	8	5
82	53	29
52	29	19
63	39	24
21	15	6
47	19	28
20	7	13
16	12	4
19	8	11
1,058	607	451

Deaths with Oxycodone Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
7	6	1
0	0	0
0	0	0
7	2	5
0	0	0
5	5	0
0	0	0
15	3	12
0	0	0
0	0	0
0	0	0
0	0	0
5	1	4
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
40	18	22

Deaths with Oxycodone in Combination with Other Drugs		
Total	Cause	Present
13	8	5
9	3	6
11	4	7
54	27	27
60	42	18
164	103	61
28	12	16
11	6	5
81	45	36
18	1	17
42	14	28
50	37	13
83	57	26
11	5	6
56	37	19
13	8	5
82	53	29
47	28	19
63	39	24
21	15	6
47	19	28
20	7	13
15	11	4
19	8	11
1,018	589	429

Oxycodone Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	13
2	Tallahassee	9
3	Live Oak	11
4	Jacksonville	54
5	Leesburg	60
6	St. Petersburg	171
7	Daytona Beach	28
8	Gainesville	11
9	Orlando	88
10	Lakeland	18
11	Miami	47
12	Sarasota	50
13	Tampa	98
14	Panama City	11
15	West Palm Beach	56
16	Florida Keys	13
17	Ft. Lauderdale	82
18	Melbourne	52
19	Ft. Pierce	63
20	Naples	21
21	Ft. Myers	47
22	Port Charlotte	20
23	St. Augustine	16
24	Sanford	19
Statewide Totals		1,058

Oxycodone Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
8	0	2	3	0	3	
3	0	0	2	0	1	
4	0	0	3	0	1	
27	0	4	7	13	3	
42	1	6	9	14	12	
109	0	4	27	57	21	
12	0	0	8	2	2	
6	0	0	1	3	2	
47	2	3	10	22	10	
1	0	0	0	0	1	
19	0	3	3	11	2	
37	0	8	7	13	9	
60	0	7	11	25	17	
5	0	1	0	1	3	
37	0	6	7	14	10	
8	0	1	3	3	1	
53	0	5	6	30	12	
29	0	2	5	13	9	
39	0	2	12	14	11	
15	0	2	3	7	3	
19	0	2	8	7	2	
7	0	0	2	1	4	
12	0	2	2	5	3	
8	0	2	0	5	1	
607	3	62	139	260	143	

Oxycodone Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
5	0	0	0	4	1	
6	0	1	3	0	2	
7	0	1	2	1	3	
27	0	2	3	11	11	
18	0	3	3	5	7	
62	1	6	9	25	21	
16	0	2	1	8	5	
5	0	0	1	2	2	
41	0	3	8	11	19	
17	0	0	4	7	6	
28	0	3	3	8	14	
13	0	0	3	7	3	
38	1	2	6	12	17	
6	0	1	1	1	3	
19	0	3	4	5	7	
5	0	0	0	0	5	
29	0	2	3	10	14	
23	0	2	4	7	10	
24	0	2	4	8	10	
6	0	1	0	1	4	
28	0	1	3	9	15	
13	0	1	1	3	8	
4	0	0	0	4	0	
11	0	1	3	4	3	
451	2	37	69	153	190	

Hydrocodone Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Hydrocodone		
Total	Cause	Present
25	3	22
10	0	10
7	1	6
54	15	39
17	9	8
69	26	43
15	2	13
11	7	4
34	8	26
22	2	20
13	4	9
20	11	9
12	6	6
17	2	15
13	8	5
6	3	3
16	10	6
20	5	15
11	1	10
4	1	3
15	4	11
3	1	2
9	6	3
9	1	8
432	136	296

Deaths with Hydrocodone Only		
Total	Cause	Present
2	1	1
2	0	2
1	0	1
0	0	0
0	0	0
9	0	9
0	0	0
0	0	0
6	0	6
0	0	0
2	0	2
0	0	0
4	2	2
0	0	0
0	0	0
0	0	0
0	0	0
3	0	3
0	0	0
0	0	0
0	0	0
0	0	0
2	0	2
0	0	0
31	3	28

Deaths with Hydrocodone in Combination with Other Drugs		
Total	Cause	Present
23	2	21
8	0	8
6	1	5
54	15	39
17	9	8
60	26	34
15	2	13
11	7	4
28	8	20
22	2	20
11	4	7
20	11	9
8	4	4
17	2	15
13	8	5
6	3	3
16	10	6
17	5	12
11	1	10
4	1	3
15	4	11
3	1	2
7	6	1
9	1	8
401	133	268

Hydrocodone Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	25
2	Tallahassee	10
3	Live Oak	7
4	Jacksonville	54
5	Leesburg	17
6	St. Petersburg	69
7	Daytona Beach	15
8	Gainesville	11
9	Orlando	34
10	Lakeland	22
11	Miami	13
12	Sarasota	20
13	Tampa	12
14	Panama City	17
15	West Palm Beach	13
16	Florida Keys	6
17	Ft. Lauderdale	16
18	Melbourne	20
19	Ft. Pierce	11
20	Naples	4
21	Ft. Myers	15
22	Port Charlotte	3
23	St. Augustine	9
24	Sanford	9
Statewide Totals		432

Hydrocodone Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
3	0	0	2	1	0	
0	0	0	0	0	0	
1	0	0	0	1	0	
15	0	1	0	7	7	
9	0	0	3	2	4	
26	0	1	5	9	11	
2	0	0	1	1	0	
7	0	0	0	2	5	
8	1	0	1	1	5	
2	1	0	0	0	1	
4	0	1	0	1	2	
11	1	1	4	2	3	
6	0	0	0	0	6	
2	0	0	1	1	0	
8	0	1	0	3	4	
3	0	0	1	1	1	
10	0	0	3	4	3	
5	0	0	0	4	1	
1	0	0	0	0	1	
1	0	0	0	1	0	
4	0	0	0	3	1	
1	0	0	0	1	0	
6	0	0	2	1	3	
1	0	0	0	1	0	
136	3	5	23	47	58	

Hydrocodone Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
22	0	2	5	5	10	
10	0	1	1	2	6	
6	1	0	1	1	3	
39	0	5	5	13	16	
8	0	0	2	3	3	
43	0	2	6	12	23	
13	0	0	2	5	6	
4	0	0	0	2	2	
26	0	0	3	6	17	
20	0	0	2	7	11	
9	0	0	0	3	6	
9	0	0	1	2	6	
6	0	0	0	2	4	
15	0	2	3	5	5	
5	0	1	0	0	4	
3	0	1	0	0	2	
6	0	0	1	3	2	
15	0	0	4	1	10	
10	0	0	1	2	7	
3	0	0	0	1	2	
11	0	0	1	6	4	
2	0	0	0	0	2	
3	0	0	0	3	0	
8	0	3	1	2	2	
296	1	17	39	86	153	

Methadone Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Methadone		
Total	Cause	Present
23	17	6
5	2	3
7	4	3
34	22	12
40	31	9
65	53	12
9	6	3
13	11	2
31	20	11
11	3	8
12	4	8
36	29	7
62	48	14
11	7	4
28	23	5
2	1	1
24	19	5
19	15	4
9	6	3
5	5	0
11	6	5
3	2	1
6	5	1
6	2	4
472	341	131

Deaths with Methadone Only		
Total	Cause	Present
2	0	2
1	0	1
0	0	0
0	0	0
0	0	0
5	4	1
0	0	0
0	0	0
3	2	1
0	0	0
1	0	1
0	0	0
11	6	5
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
25	13	12

Deaths with Methadone in Combination with Other Drugs		
Total	Cause	Present
21	17	4
4	2	2
7	4	3
34	22	12
40	31	9
60	49	11
9	6	3
13	11	2
28	18	19
11	3	8
11	4	7
36	29	7
51	42	9
11	7	4
28	23	5
2	1	1
24	19	5
18	14	4
9	6	3
5	5	0
11	6	5
3	2	1
5	5	0
6	2	4
447	328	119

Methadone Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	23
2	Tallahassee	5
3	Live Oak	7
4	Jacksonville	34
5	Leesburg	40
6	St. Petersburg	65
7	Daytona Beach	9
8	Gainesville	13
9	Orlando	31
10	Lakeland	11
11	Miami	12
12	Sarasota	36
13	Tampa	62
14	Panama City	11
15	West Palm Beach	28
16	Florida Keys	2
17	Ft. Lauderdale	24
18	Melbourne	19
19	Ft. Pierce	9
20	Naples	5
21	Ft. Myers	11
22	Port Charlotte	3
23	St. Augustine	6
24	Sanford	6
Statewide Totals		472

Methadone Found that Caused Death					
Age of Decedent					
Total	< 18	18-25	26-34	35-50	>50
17	0	2	9	5	1
2	0	0	1	1	0
4	0	0	1	2	1
22	1	5	5	9	2
31	0	3	6	14	8
53	1	1	17	23	11
6	1	2	1	2	0
11	0	1	1	6	3
20	0	3	3	10	4
3	1	1	0	0	1
4	0	2	1	1	0
29	0	4	8	13	4
48	0	3	10	20	15
7	0	2	0	4	1
23	0	5	9	5	4
1	0	0	1	0	0
19	0	1	6	7	5
15	1	3	0	7	4
6	0	2	0	2	2
5	0	0	0	5	0
6	0	0	2	3	1
2	0	1	1	0	0
5	0	0	2	2	1
2	0	0	0	2	0
341	5	41	84	143	68

Methadone Present					
Age of Decedent					
Total	<18	18-25	26-34	35-50	>50
6	0	1	1	3	1
3	0	0	0	2	1
3	0	0	1	1	1
12	0	1	4	2	5
9	0	1	3	1	4
12	1	0	2	8	1
3	0	0	1	2	0
2	0	0	0	1	1
11	0	1	0	5	5
8	0	1	0	3	4
8	0	0	1	3	4
7	0	1	0	4	2
14	0	0	2	8	4
4	0	1	1	0	2
5	0	0	1	1	3
1	0	0	0	1	0
5	0	0	1	2	2
4	0	0	1	0	3
3	0	0	0	0	3
0	0	0	0	0	0
5	0	0	1	0	4
1	0	0	0	0	1
1	0	0	1	0	0
4	0	0	0	2	2
131	1	7	21	49	53

Morphine Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Morphine		
Total	Cause	Present
8	1	7
4	0	4
0	0	0
19	9	10
16	9	7
36	19	17
9	1	8
13	2	11
37	13	24
14	1	13
32	11	21
18	12	6
32	13	19
9	3	6
15	9	6
3	1	2
31	19	12
15	9	6
8	2	6
1	1	0
12	6	6
6	0	6
1	1	0
6	2	4
345	144	201

Deaths with Morphine Only		
Total	Cause	Present
1	0	1
2	0	2
0	0	0
0	0	0
0	0	0
7	1	6
0	0	0
0	0	0
10	1	9
0	0	0
2	1	1
0	0	0
15	2	13
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
0	0	0
38	5	33

Deaths with Morphine in Combination with Other Drugs		
Total	Cause	Present
7	1	6
2	0	2
0	0	0
19	9	10
16	9	7
29	18	11
9	1	8
13	2	11
27	12	15
14	1	13
30	10	20
18	12	6
17	11	6
9	3	6
15	9	6
3	1	2
31	19	12
15	9	6
8	2	6
1	1	0
12	6	6
5	0	5
1	1	0
6	2	4
307	139	168

Morphine Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	8
2	Tallahassee	4
3	Live Oak	0
4	Jacksonville	19
5	Leesburg	16
6	St. Petersburg	36
7	Daytona Beach	9
8	Gainesville	13
9	Orlando	37
10	Lakeland	14
11	Miami	32
12	Sarasota	18
13	Tampa	32
14	Panama City	9
15	West Palm Beach	15
16	Florida Keys	3
17	Ft. Lauderdale	31
18	Melbourne	15
19	Ft. Pierce	8
20	Naples	1
21	Ft. Myers	12
22	Port Charlotte	6
23	St. Augustine	1
24	Sanford	6
Statewide Totals		345

Morphine Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
1	1	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
9	0	0	2	4	3	
9	0	0	1	3	5	
19	0	2	2	8	7	
1	0	0	0	1	0	
2	0	0	1	1	0	
13	0	0	2	5	6	
1	0	0	0	1	0	
11	1	1	0	5	4	
12	0	0	0	7	5	
13	0	0	1	5	7	
3	0	1	1	0	1	
9	0	3	2	0	4	
1	0	0	0	0	1	
19	0	1	0	11	7	
9	0	1	2	4	2	
2	0	0	0	0	2	
1	0	0	0	1	0	
6	0	0	2	4	0	
0	0	0	0	0	0	
1	0	0	0	1	0	
2	0	0	1	0	1	
144	2	9	17	61	55	

Morphine Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
7	0	1	3	2	1	
4	0	0	0	2	2	
0	0	0	0	0	0	
10	1	0	0	2	7	
7	1	0	0	2	4	
17	0	1	1	5	10	
8	0	0	0	1	7	
11	0	0	0	3	8	
24	0	1	1	2	20	
13	0	2	0	1	10	
21	1	1	2	7	10	
6	0	0	0	2	4	
19	1	0	0	5	13	
6	0	0	1	4	1	
6	0	0	0	1	5	
2	0	0	0	0	2	
12	0	2	1	3	6	
6	0	0	0	1	5	
6	0	0	1	2	3	
0	0	0	0	0	0	
6	0	1	0	2	3	
6	0	0	0	0	6	
0	0	0	0	0	0	
4	0	0	0	3	1	
201	4	9	10	50	128	

Cocaine Deaths January – June 2011

Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Cocaine		
Total	Cause	Present
17	7	10
15	3	12
3	0	3
61	21	40
28	17	11
70	35	35
21	2	19
18	11	7
71	29	42
13	6	7
88	27	61
25	18	7
47	20	27
5	1	4
38	21	17
5	0	5
54	35	19
18	11	7
24	9	5
11	5	6
30	9	21
5	1	4
4	4	0
8	2	6
679	294	385

Deaths with Cocaine Only		
Total	Cause	Present
1	1	0
0	0	0
0	0	0
0	0	0
0	0	0
9	4	5
0	0	0
0	0	0
14	3	11
0	0	0
27	7	20
0	0	0
10	7	3
0	0	0
0	0	0
1	0	1
0	0	0
0	0	0
0	0	0
1	0	1
0	0	0
0	0	0
64	23	41

Deaths with Cocaine in Combination with Other Drugs		
Total	Cause	Present
16	6	10
15	3	12
3	0	3
61	21	40
28	17	11
61	31	30
21	2	19
18	11	7
57	26	31
13	6	7
61	20	41
25	18	7
37	13	24
5	1	4
38	21	17
4	0	4
54	35	19
17	10	7
24	9	15
11	5	6
30	9	21
4	1	3
4	4	0
8	2	6
615	271	344

Cocaine Deaths by Age January – June 2011

Medical Examiner District and Area of Florida		
District	Area of Florida	Total
1	Pensacola	17
2	Tallahassee	15
3	Live Oak	3
4	Jacksonville	61
5	Leesburg	28
6	St. Petersburg	70
7	Daytona Beach	21
8	Gainesville	18
9	Orlando	71
10	Lakeland	13
11	Miami	88
12	Sarasota	25
13	Tampa	47
14	Panama City	5
15	West Palm Beach	38
16	Florida Keys	5
17	Ft. Lauderdale	54
18	Melbourne	18
19	Ft. Pierce	24
20	Naples	11
21	Ft. Myers	30
22	Port Charlotte	5
23	St. Augustine	4
24	Sanford	8
Statewide Totals		679

Cocaine Found that Caused Death						
Age of Decedent						
Total	< 18	18-25	26-34	35-50	>50	
7	0	2	1	4	0	
3	0	0	0	2	1	
0	0	0	0	0	0	
21	1	2	2	7	9	
17	0	2	3	11	1	
35	0	0	11	14	10	
2	0	1	0	0	1	
11	0	3	3	4	1	
29	1	1	3	16	8	
6	0	0	0	1	5	
27	1	1	1	8	16	
18	0	0	6	6	6	
20	0	1	4	6	9	
1	0	0	0	1	0	
21	1	4	2	11	3	
0	0	0	0	0	0	
35	0	1	4	20	10	
11	0	2	3	2	4	
9	0	0	3	5	1	
5	0	0	3	2	0	
9	0	0	6	3	0	
1	0	0	0	1	0	
4	0	0	0	3	1	
2	0	0	2	0	0	
294	4	20	57	127	86	

Cocaine Present						
Age of Decedent						
Total	<18	18-25	26-34	35-50	>50	
10	0	1	7	1	1	
12	0	0	5	5	2	
3	0	1	0	2	0	
40	0	6	11	10	13	
11	0	1	3	7	0	
35	1	1	7	19	7	
19	0	1	7	7	4	
7	0	1	2	4	0	
42	0	5	6	18	13	
7	1	0	3	2	1	
61	1	7	12	21	20	
7	0	1	1	2	3	
27	0	5	11	9	2	
4	0	0	1	2	1	
17	0	4	3	8	2	
5	0	1	1	1	2	
19	0	0	3	11	5	
7	0	0	1	6	0	
15	0	0	2	9	4	
6	0	2	1	1	2	
21	0	2	4	8	7	
4	0	0	0	3	1	
0	0	0	0	0	0	
6	0	1	2	3	0	
385	3	40	93	159	90	

Heroin Deaths January – June 2011

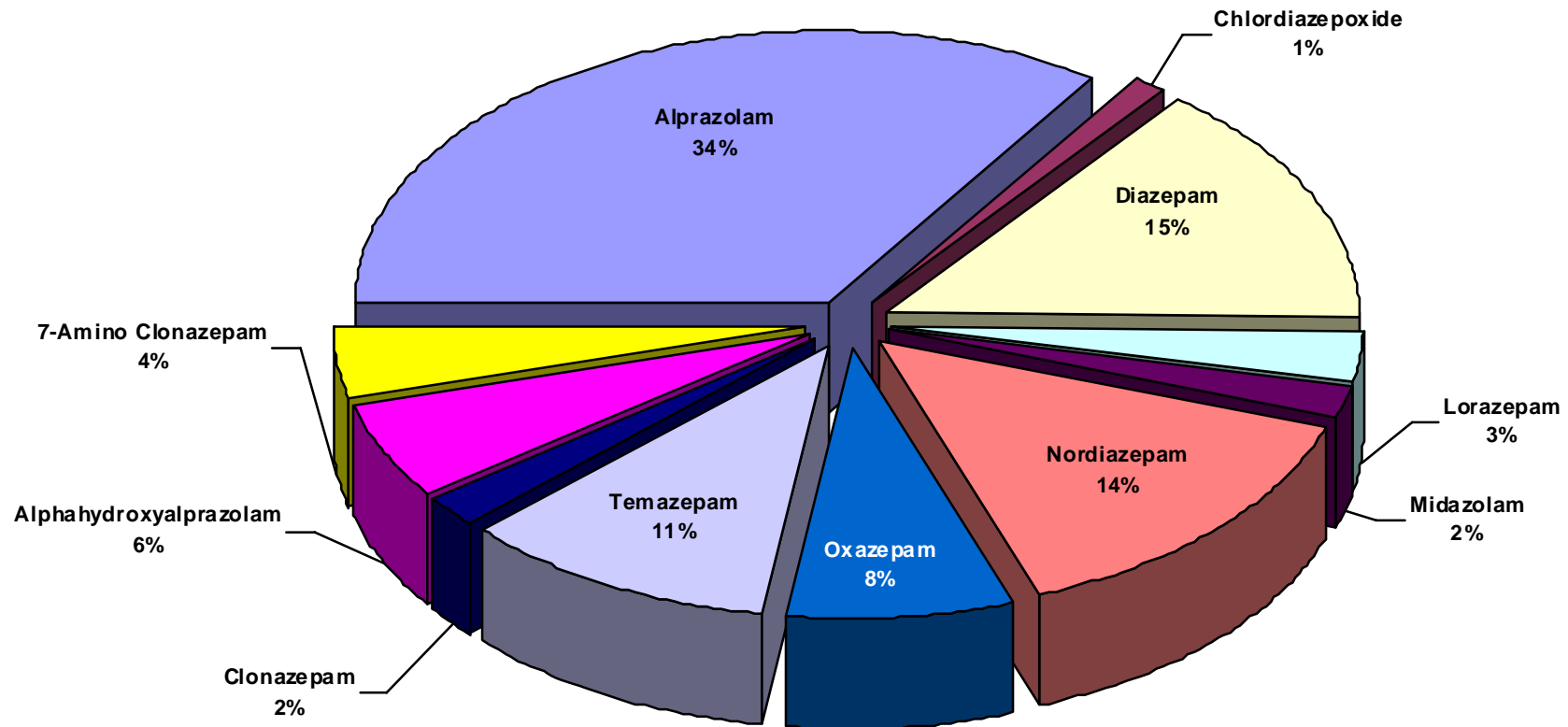
Medical Examiner District & Area of Florida	
District	Area of Florida
1	Pensacola
2	Tallahassee
3	Live Oak
4	Jacksonville
5	Leesburg
6	St. Petersburg
7	Daytona Beach
8	Gainesville
9	Orlando
10	Lakeland
11	Miami
12	Sarasota
13	Tampa
14	Panama City
15	West Palm Beach
16	Florida Keys
17	Ft. Lauderdale
18	Melbourne
19	Ft. Pierce
20	Naples
21	Ft. Myers
22	Port Charlotte
23	St. Augustine
24	Sanford
Statewide Totals	

Total Deaths with Heroin		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
8	8	0
0	0	0
5	4	1
2	2	0
1	1	0
0	0	0
1	1	0
0	0	0
1	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
20	19	1

Deaths with Heroin Only		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
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0	0	0
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0	0	0

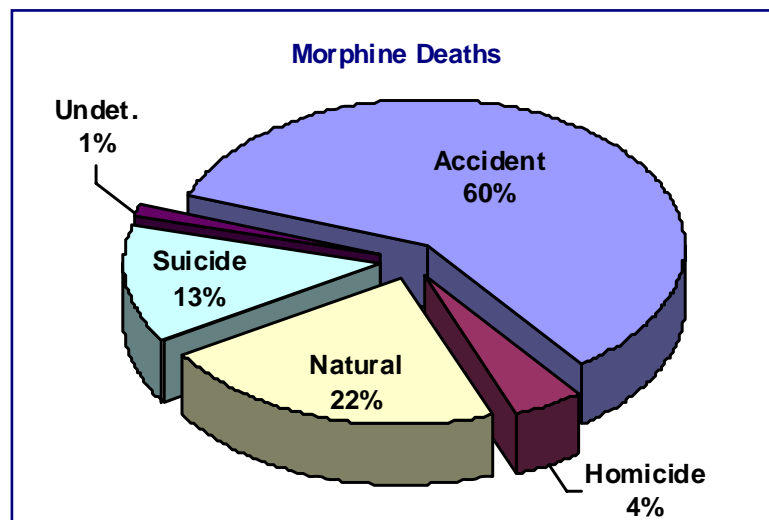
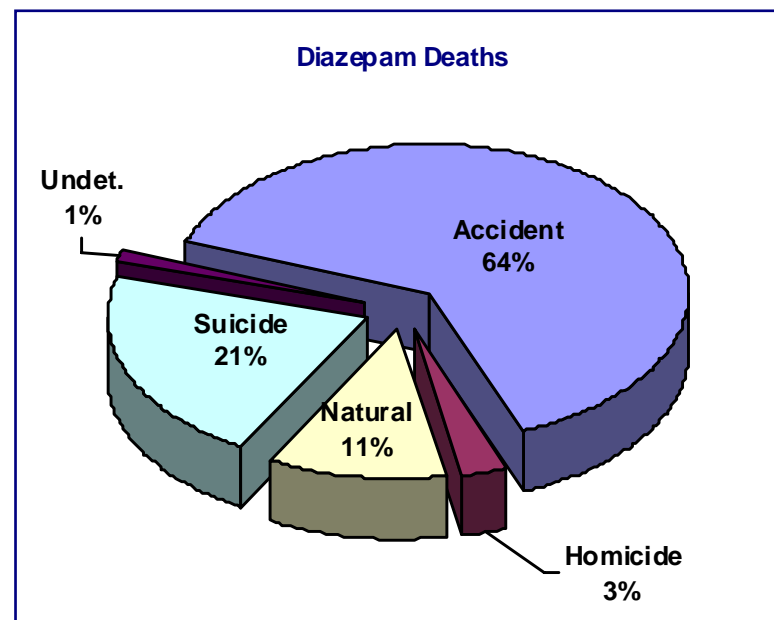
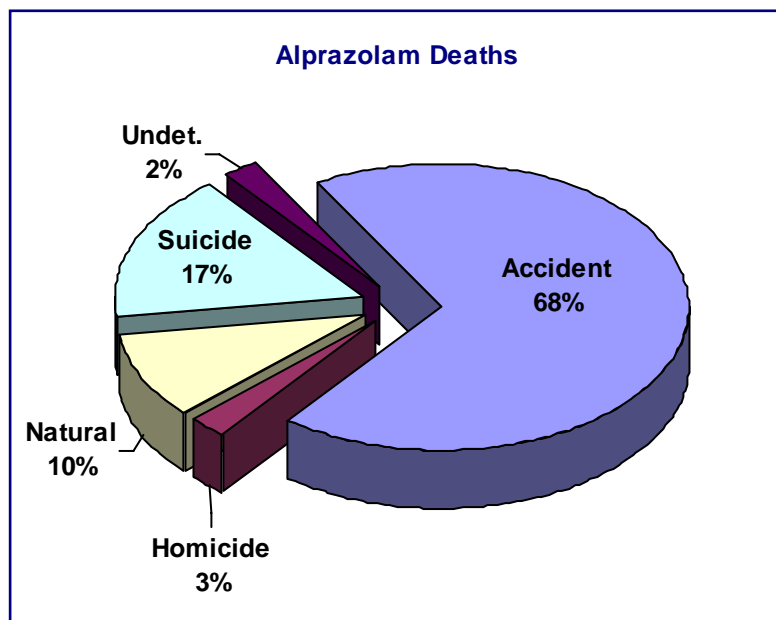
Deaths with Heroin in Combination with Other Drugs		
Total	Cause	Present
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
0	0	0
0	0	0
8	8	0
0	0	1
5	4	1
2	2	0
1	1	0
0	0	0
1	1	0
0	0	0
1	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
1	1	0
20	19	1

Frequency of Occurrence of Benzodiazepines January – June 2011

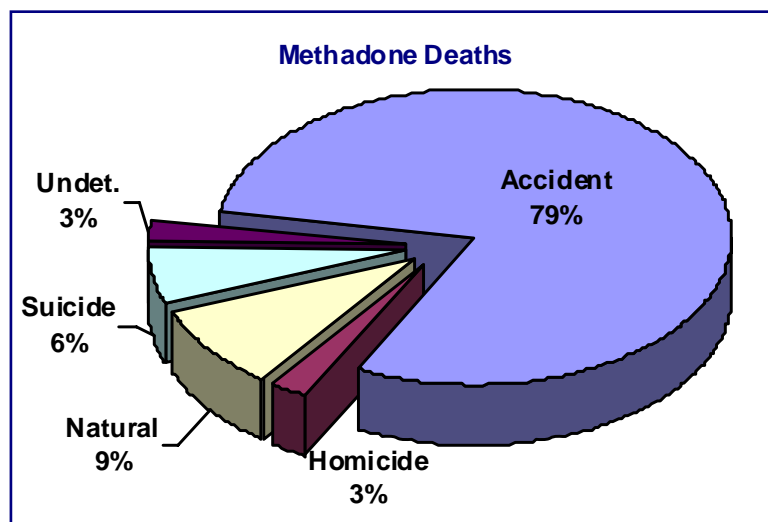
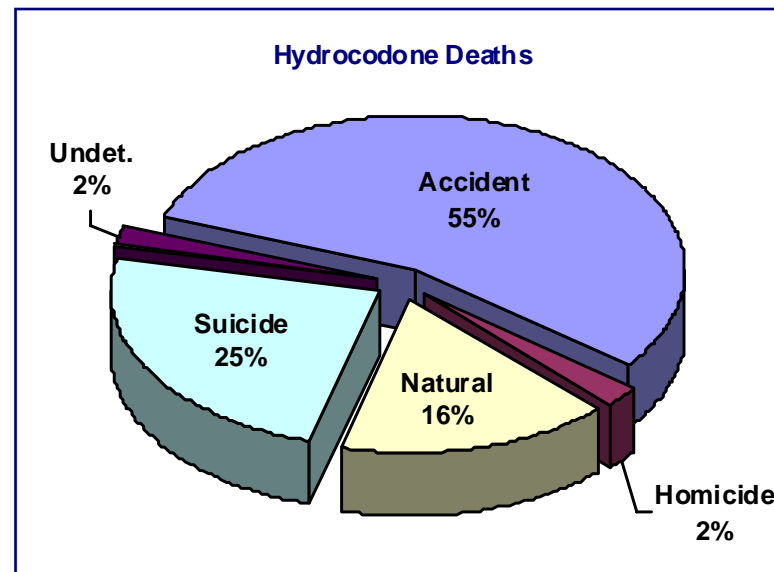
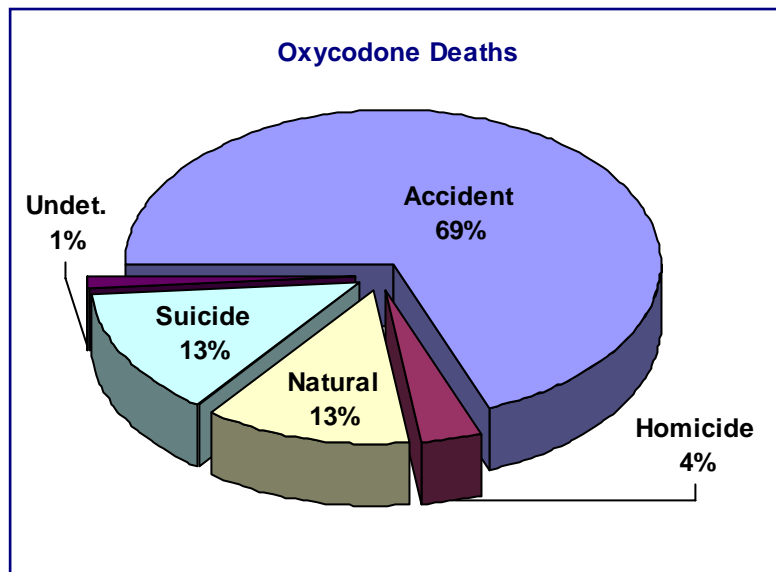


Note: Desalkylflurazepam, estazolam, flunitrazepam, flurazepam, triazolam, and alpha-hydroxytriazolam constituted less than 1% of the drug frequencies.

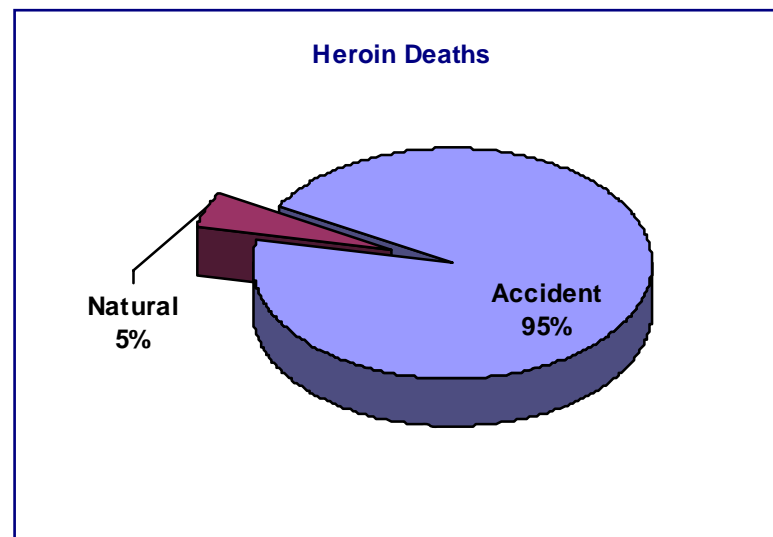
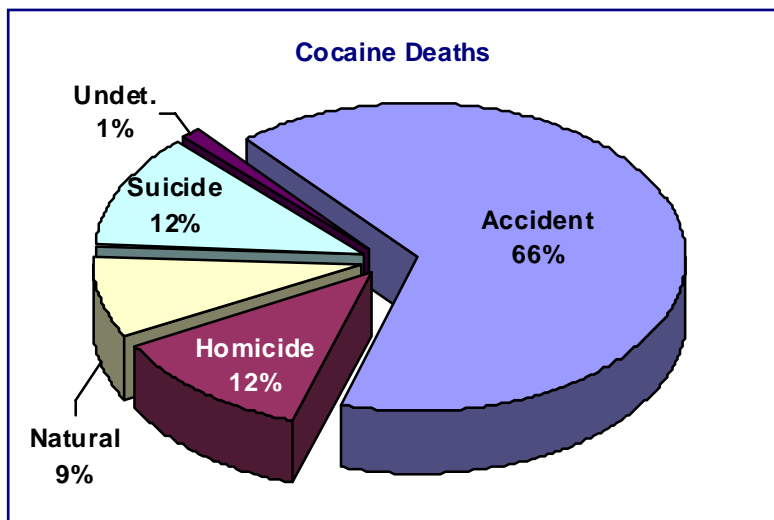
Manners of Death for Cases Reported (Accidental, Homicide, Natural, Suicide or Undetermined)



Manners of Death for Cases Reported (Accidental, Homicide, Natural, Suicide or Undetermined)



Manners of Death for Cases Reported (Accidental, Homicide, Natural, Suicide or Undetermined)



Glossary

Benzodiazepine – A family of sedative-hypnotic drugs indicated for the treatment of stress, anxiety, seizures and alcohol withdrawal. Benzodiazepines are often referred to as “minor tranquilizers.” Xanax (Alprazolam) and Valium (Diazepam) are the most commonly prescribed drugs in this drug class.

Buprenorphine – A semi-synthetic opioid known as Buprenex, Suboxone, and Subutex indicated for the treatment of opioid addiction and moderate to severe pain.

Cannabinoids – A series of compounds found in the marijuana plant, the most psychoactive of which is THC, a strong, illicit hallucinogen. Street names for this drug are often associated with a geographic area from which it came but also include generic names like “ganja”, “MJ”, “ragweed”, “reefer” and “grass.”

Carisoprodol – Muscle relaxant indicated for the treatment of pain, muscle spasms and limited mobility. It is often abused in conjunction with analgesics for enhanced euphoric effect. It is marketed as Soma.

Cocaine – An illicit stimulant. Powdered cocaine goes by many street names including “C,” “blow,” “snow” and “nose candy,” while freebase cocaine is mostly commonly known as “crack.”

Difluoroethane – A gas that is commonly found in electronic cleaning products and many other consumer aerosol products.

Ethyl Alcohol – Alcohol or ethanol.

Fentanyl – Synthetic narcotic analgesic (pain killer) used in the Duragesic transdermal patch. Also available in a solid “lollypop” sold under the brand name Actiq.

Gamma-Hydroxybutyric Acid (GHB) – A depressant, also known as a “date rape” drug. GHB often goes by the street name “easy lay,” “scoop,” “liquid X,” “Georgia home boy” and “grievous bodily harm.”

Heroin – An illicit narcotic derivative. It is a semi-synthetic product of opium. Heroin also has multiple street names including “H,” “hombre” and “smack.”

Hydrocodone – A narcotic analgesic (pain killer). Vicodin and Lortab are two common drugs containing hydrocodone.

Hydromorphone – A narcotic analgesic (pain killer) used to treat moderate to severe pain. Marketed under the trade name Dilaudid, it is two to eight times more potent than morphine. Commonly used by abusers as a substitute for heroin.

Ketamine – An animal tranquilizer and a chemical relative of PCP. Street names for this drug include “special K,” “vitamin K” and “cat valium.”

Glossary (continued)

Meperidine – A synthetic narcotic analgesic (pain killer) sold under the trade name Demerol, it is used for pre-anesthesia and the relief of moderate to severe pain.

Methadone – A synthetic narcotic analgesic (pain killer) commonly associated with Heroin detoxification and maintenance programs but it is also prescribed to treat severe pain. It has been increasingly prescribed in place of oxycodone for pain management. Dolophine is one form of methadone.

Methylated Amphetamines – Includes such drugs as methamphetamine (stimulant) and MDMA (Ecstasy – which is a hallucinogen). Ecstasy has multiple street names including “E,” “XTC,” “love drug,” and “clarity.” MDMA is often also known by a large variety of embossed logos on the pills such as “Mitsubishi” and “Killer Bees.” Methamphetamine is also known as “meth,” “crank,” “speed” and “tina.”

Morphine – A narcotic analgesic (pain killer) used to treat moderate to severe pain. MS (Morphine Sulfate), Kadian, and MS-Contin are the tablet forms, Roxanol is the liquid form.

Nitrous Oxide (N₂O) – Also known as “laughing gas,” this is an inhalant (gas) that produces light anesthesia and analgesia. “Whippets” are a common form of nitrous oxide.

Oxycodone – A narcotic analgesic (pain killer). OxyContin is one form of this drug and goes by the street name “OC.” Percocet, Percodan, Roxicet, Tylox, and Roxicodone also contain Oxycodone.

Oxymorphone – A narcotic analgesic (pain killer). Prescribed as Opana, Numorphan, and Numorphone.

Phencyclidine (PCP) – An illicit dissociative anesthetic/hallucinogen. Common street names for this drug include “angel dust”, “ace”, “DOA” and “wack”.

Rohypnol – Commonly referred to as a “date rape” drug. It is a sedative-hypnotic drug in the Benzodiazepine class. It often goes by the street name “roofies.”

Tramadol – A synthetic narcotic analgesic sold under the trade name Ultram and Ultracet. Indications include the treatment of moderate to severe pain. It is a chemical analogue to Codeine. Not currently a scheduled drug.

Zolpidem – A prescription medication used for the short-term treatment of insomnia. Commonly known as Ambien.