

Practitioner Diversion Awareness Conference

Drugs of Abuse and Trends

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Course Objectives

- § **Discuss the Public Health Epidemic.**
- § **Review the common drugs of abuse.**
- § **Discuss the relationship between pharmaceutical controlled substances and heroin.**



Course Objectives

- § **Discuss the violence related to controlled substance prescribing and dispensing.**
- § **Review key research and studies involving the impact of indiscriminate prescribing of controlled substances.**



Questions to Discuss

At the completion of this block of instruction you will be able to answer the following questions:

- 1. Which country, per million population, has the largest amount of drug induced deaths ages 15-64?**
- 2. Where does Pennsylvania rate in the United States in the amount of Oxycodone dispensed?**



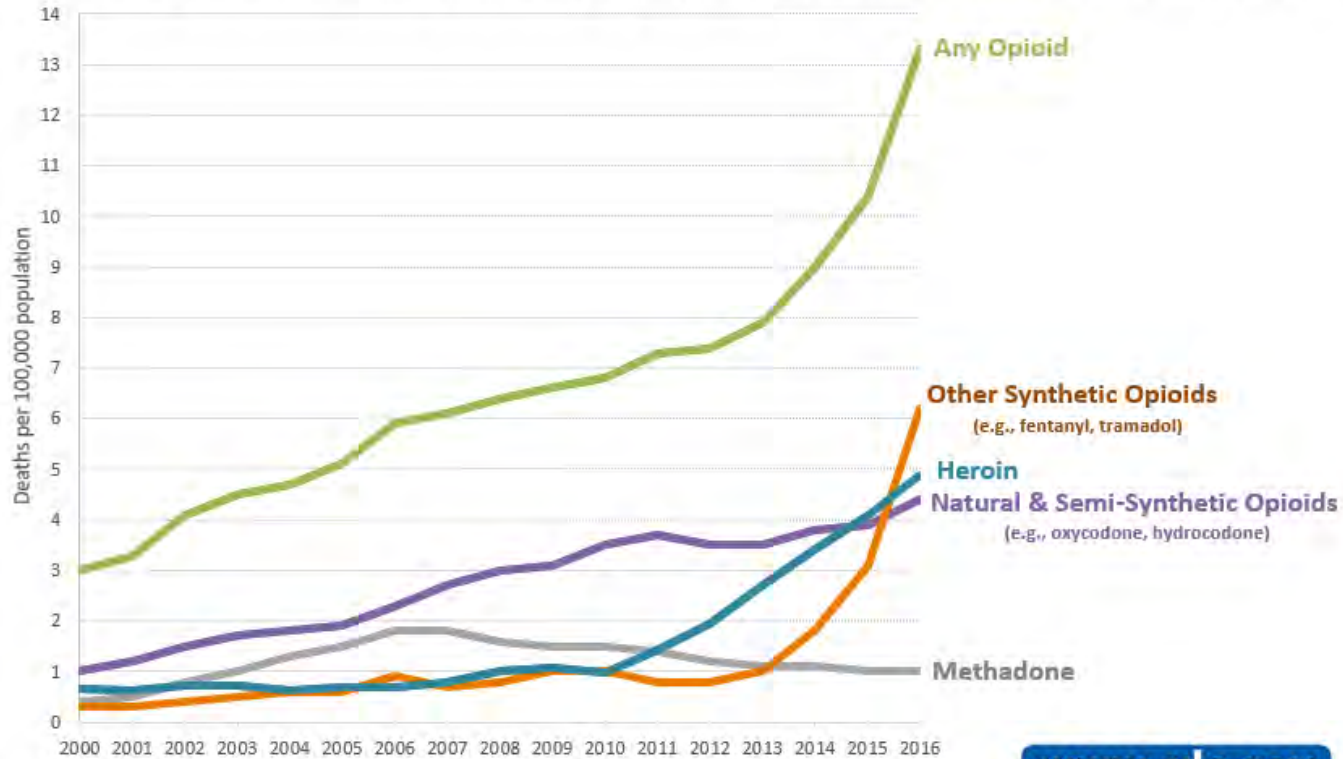
Questions to Discuss

- 3. What percentage of the world's hydrocodone production does the United States consume?**
- 4. What is the most misused prescription controlled substance pain reliever in the United States?**
- 5. What percent of heroin users began their addictions with prescribed pain relievers?**



The Problem – People Are Dying

Overdose Deaths Involving Opioids, by Type of Opioid, United States, 2000-2016

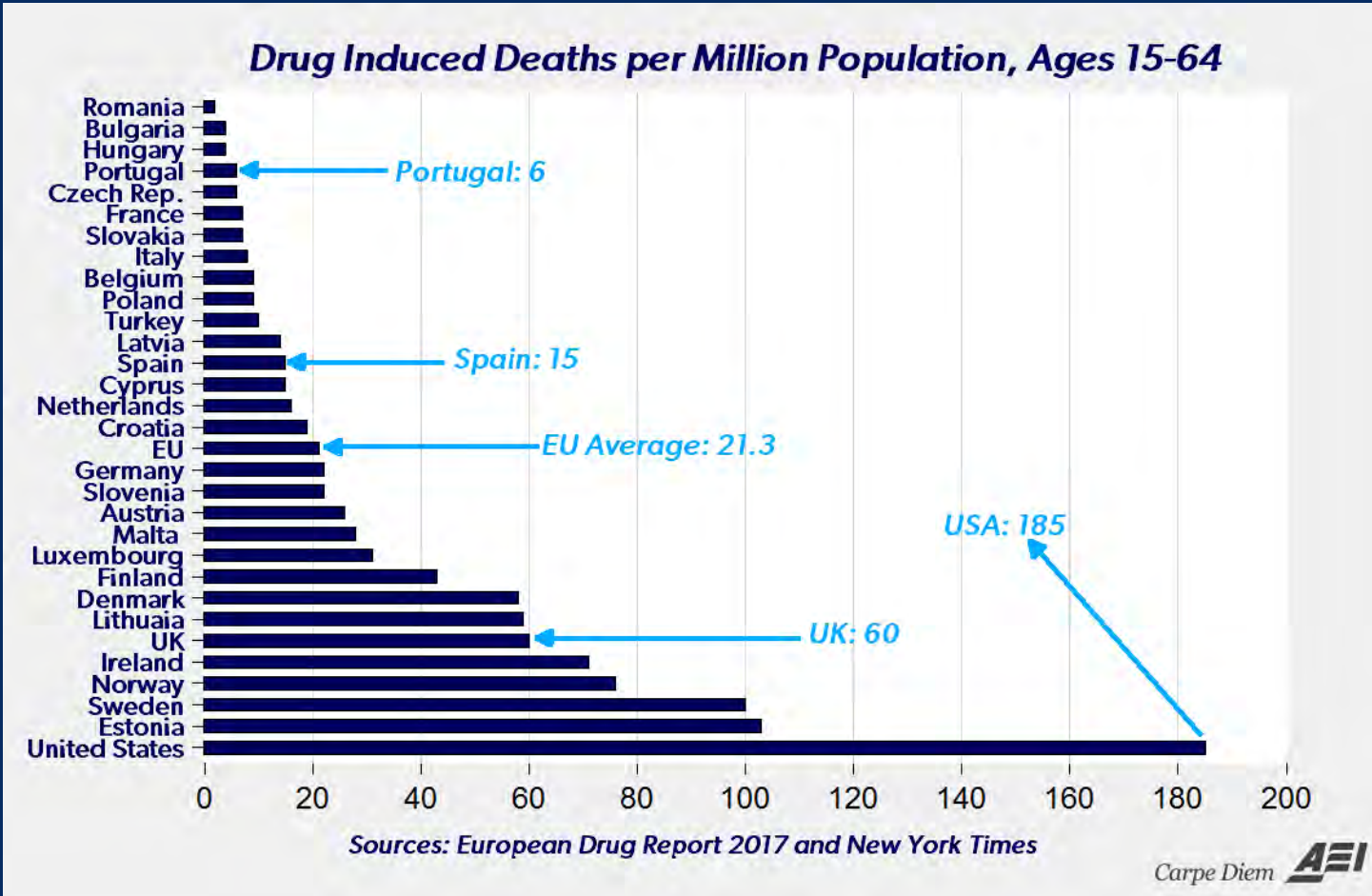


SOURCE: CDC/NCHS, National Vital Statistics System, Mortality. CDC WONDER, Atlanta, GA: US Department of Health and Human Services, CDC; 2017. <https://wonder.cdc.gov/>.

www.cdc.gov
Your Source for Credible Health Information



The Problem – People Are Dying





Drugs of Abuse

The top 5 distributed scheduled controlled substances in the United States:

- 1. Hydrocodone**
- 2. Oxycodone**
- 3. Codeine**
- 4. Buprenorphine**
- 5. Morphine**



Where Does the United States Rank In Consumption?

Drug Name	United States (Pop. 320 Mil.)		China (Pop. 1.37 Billion)		World (7.3 Bil)
	Percent	Tons	Percentage	Tons	Tons
Hydrocodone			0.00%	0.001	36.3
Oxycodone			1.08%	0.9	83.2
Morphine			3.92%	1.6	40.8
Codeine			2.66%	7.6	285.5
Methadone			4.56%	1.5	32.9
Fentanyl			0.32%	0.006	1.85

Source (2017). INCB data, International Narcotics Board: Comments on Reported Statistics on Narcotic Drugs.



Hydrocodone

§ Hydrocodone / Acetaminophen (toxicity)

§ Similarities:

§ Structurally related to codeine

§ Equal to morphine in producing opiate-like effects

§ Brand Names: Vicodin[®], Lortab[®], Lorcet[®]





Hydrocodone



§ **October 6, 2014 moved to SCHEDULE II**

§ **Street prices: \$2 to \$10 per tablet depending on strength & region**



The Trinity Cocktail



Hydrocodone

Opioid



Muscle Relaxant

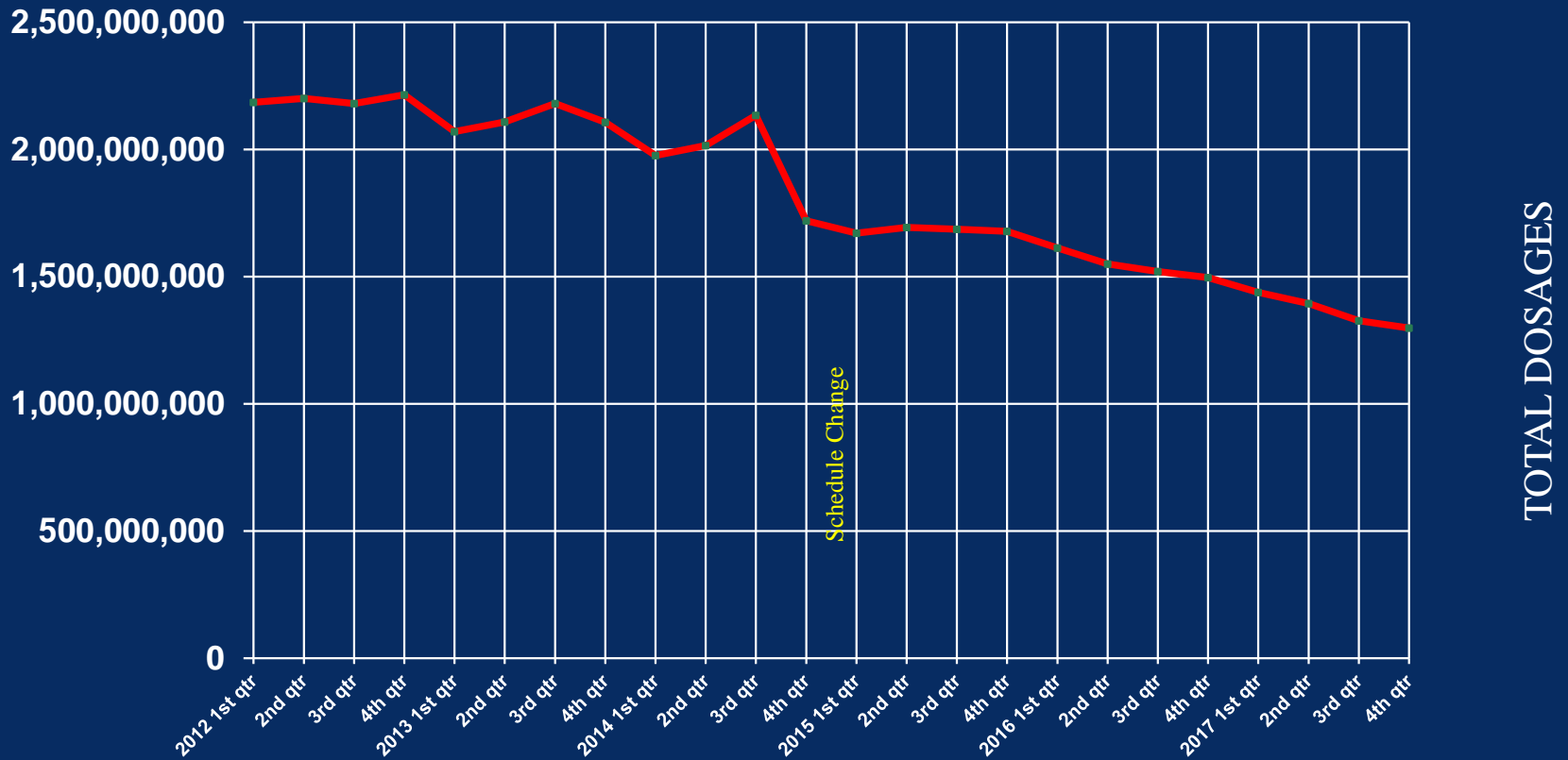


Alprazolam

Benzodiazepine



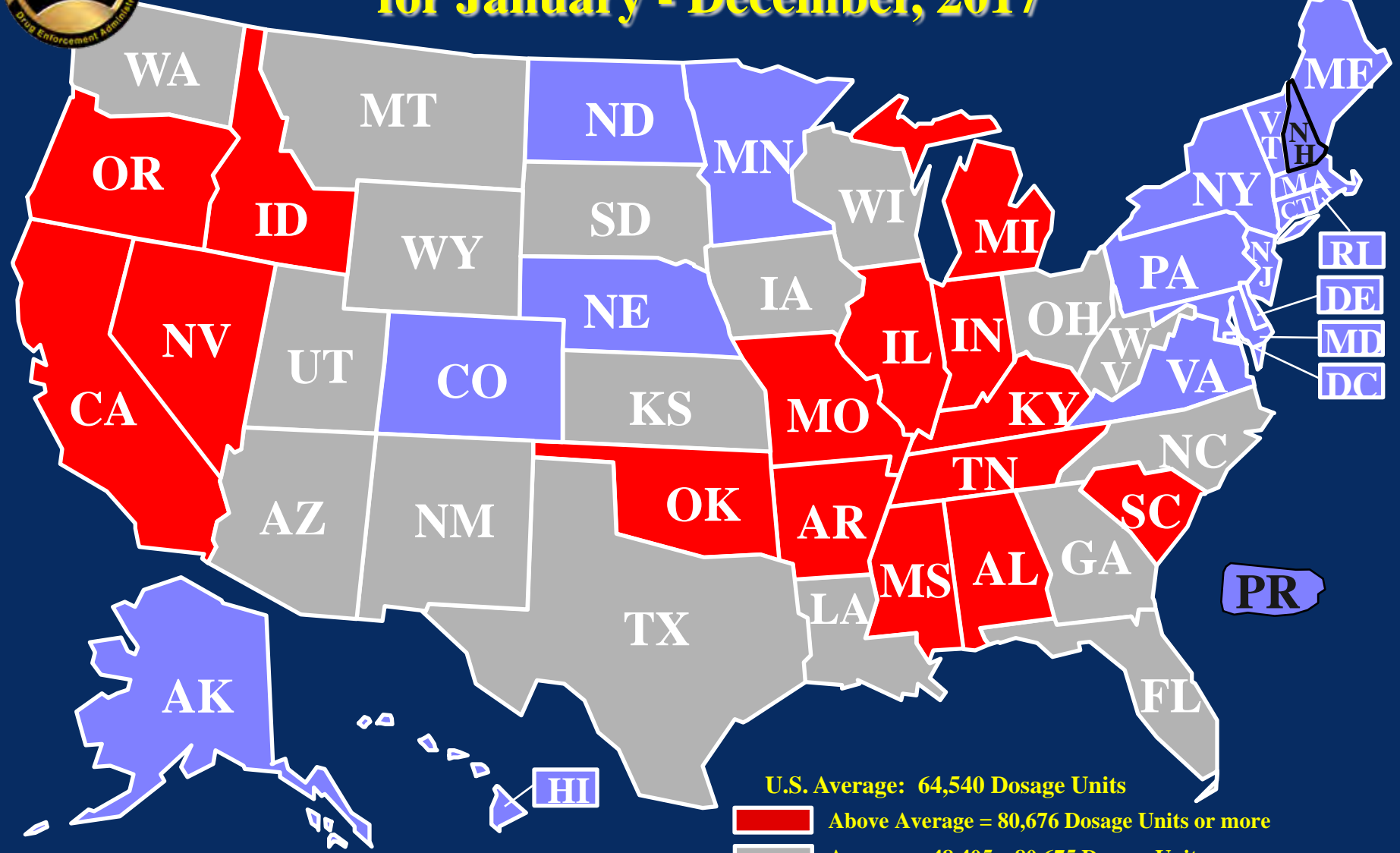
Hydrocodone Distribution 2012-2017 U.S. Totals



Drug Enforcement Administration, Diversion Control Division, Pharmaceutical Investigations Section, Targeting and Analysis Unit



Purchases of Hydrocodone for January - December, 2017



- U.S. Average: 64,540 Dosage Units**
- Red** Above Average = 80,676 Dosage Units or more
 - Gray** Average = 48,405 – 80,675 Dosage Units
 - Blue** Below Average = 48,404 Dosage Units or less
 - Black** Zero Dosage Units



Hydrocodone Distribution

Retail Pharmacies



State Ranking

Average Per 100K Population*

Hydrocodone

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	AL	3,585,414	12	WV	2,424,836	23	WA	1,625,707	34	AK	1,111,009	45	NH	592,446
2	KY	3,535,589	13	MO	2,406,644	24	UT	1,585,094	35	ME	1,105,895	46	DE	557,548
3	OK	3,398,390	14	SC	2,255,782	25	WY	1,571,219	36	PA	1,080,254	47	MD	496,208
4	AR	3,326,004	15	KS	2,249,494	26	NC	1,549,791	37	VA	1,040,001	48	CT	459,564
5	MI	3,091,718	16	OR	2,046,284	27	NE	1,545,596	38	ND	1,034,321	49	MA	421,066
6	TN	2,820,611	17	MT	1,890,027	28	OH	1,471,403	39	CO	1,001,671	50	NJ	309,888
7	IN	2,783,355	18	IL	1,860,998	29	FL	1,445,816	40	HI	939,533	51	VI	216,162
8	MS	2,740,074	19	GA	1,855,116	30	SD	1,412,448	41	RI	887,156	52	DC	191,666
9	ID	2,655,726	20	CA	1,828,560	31	AZ	1,315,144	42	MN	808,733	53	GU	57,614
10	LA	2,487,009	21	TX	1,799,909	32	NM	1,303,919	43	NY	697,852	54	PR	7,541
11	NV	2,453,626	22	IA	1,663,082	33	WI	1,242,285	44	VT	646,581	55	AS	0

* *Business Activity – Retail Pharmacies*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Hydrocodone Distribution Practitioner's Office



State Ranking

Average Per 100K Population*

Hydrocodone

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	HI	26,998	12	VA	6,373	23	IA	3,990	34	IN	2,497	45	DE	1,626
2	GA	10,390	13	CO	6,293	24	NE	3,923	35	RI	2,261	46	VT	1,582
3	WY	9,777	14	ID	6,031	25	CT	3,846	36	GU	2,242	47	AR	1,531
4	IL	8,439	15	AK	5,728	26	KY	3,699	37	ME	2,198	48	SC	1,437
5	ND	8,339	16	AZ	5,656	27	MN	3,282	38	KS	2,133	49	NM	1,354
6	MD	7,904	17	FL	4,894	28	WI	3,224	39	NY	2,028	50	VI	1,275
7	NV	7,736	18	WA	4,790	29	UT	3,126	40	OH	1,999	51	MS	711
8	MO	7,640	19	TN	4,770	30	NJ	3,044	41	TX	1,971	52	DC	665
9	CA	7,619	20	MT	4,618	31	PA	2,677	42	MA	1,952	53	NH	304
10	AL	7,493	21	OR	4,435	32	LA	2,595	43	NC	1,845	54	AS	0
11	OK	7,188	22	MI	4,134	33	WV	2,558	44	SD	1,756	55	PR	0

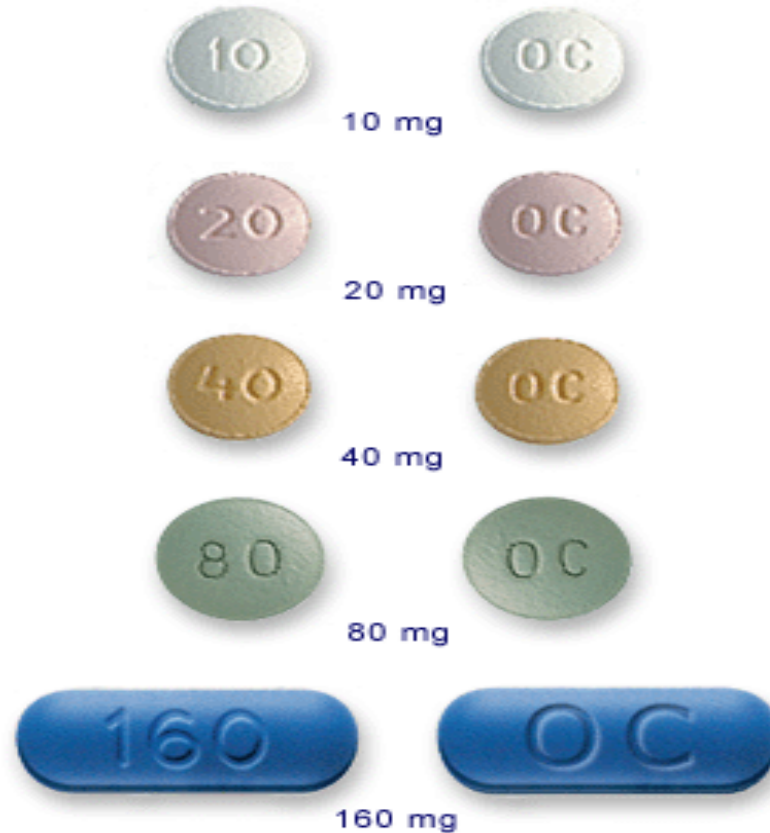
* *Business Activity – Retail Practitioners*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



OxyContin®

The 1990s



OxyContin® Tablets
(oxycodone hydrochloride controlled-release)



OxyContin®

- § **OxyContin® controlled release formulation of Schedule II oxycodone:**
 - § **The controlled release method of delivery allowed for a longer duration of drug action and contained much larger doses of oxycodone.**
 - § **Abusers easily compromised the controlled release formulation by crushing the tablets for a powerful morphine-like high.**
 - § **10, 20, 40, 80mg available.**



OxyContin®

§ Effects:

§ **Similar to morphine in effects and potential for abuse/dependence.**

§ **Sold in “Cocktails” such as:**

§ *Oxycodone, Soma ® and Xanax®*

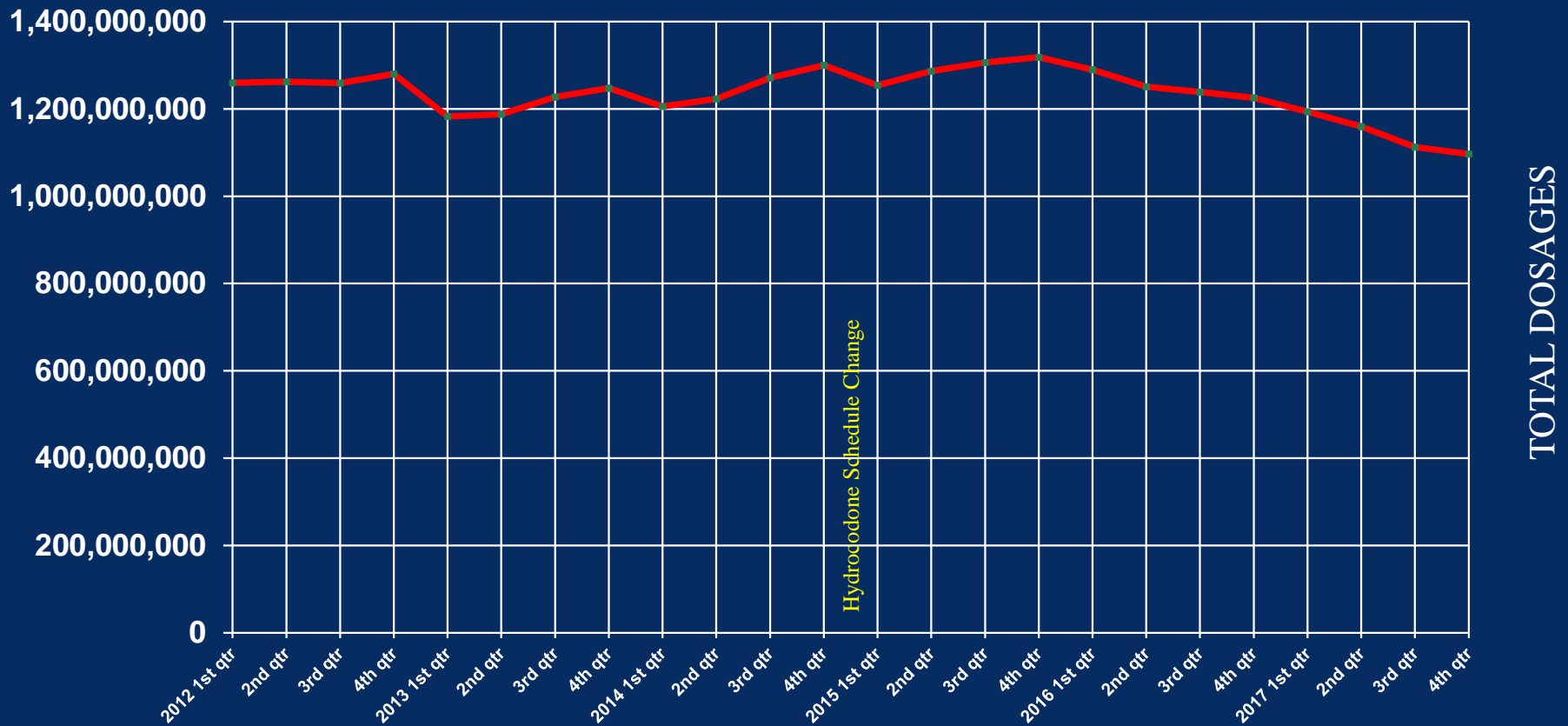


OxyContin®

- **Street price: Approx. \$80 per 80mg tablet**
- **90 tabs prescribed a month =**
- **\$7200 a month income.**
- **\$85,400 year.**

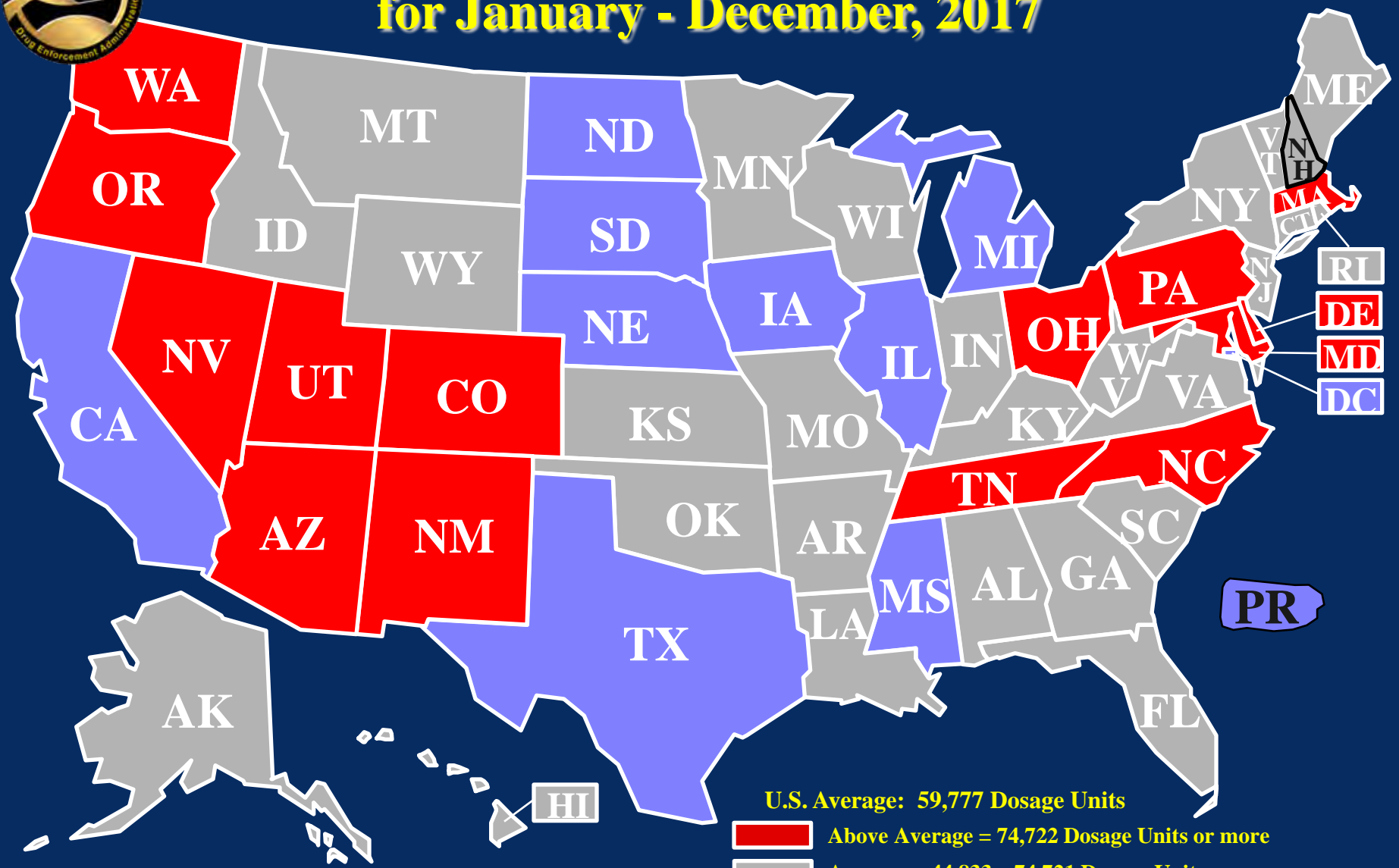


Oxycodone Distribution 2012-2017 U.S. Totals





Purchases of Oxycodone for January - December, 2017



U.S. Average: 59,777 Dosage Units

- Red:** Above Average = 74,722 Dosage Units or more
- Gray:** Average = 44,833 – 74,721 Dosage Units
- Blue:** Below Average = 44,832 Dosage Units or less
- Black:** Zero Dosage Units



Oxycodone Distribution

Retail Pharmacies



State Ranking

Average Per 100K Population*

Oxycodone

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	TN	2,482,592	12	OK	1,839,943	23	CO	1,554,308	34	ID	1,355,169	45	NE	905,312
2	DE	2,434,971	13	KY	1,818,568	24	AR	1,541,811	35	VA	1,346,683	46	ND	808,939
3	AZ	2,352,252	14	SC	1,800,677	25	GA	1,531,508	36	RI	1,325,984	47	SD	775,352
4	NC	2,241,355	15	FL	1,752,355	26	CT	1,508,377	37	IN	1,294,177	48	IA	727,506
5	NV	2,107,348	16	NJ	1,713,680	27	ME	1,504,762	38	VT	1,254,978	49	CA	702,075
6	OR	2,090,375	17	MO	1,692,212	28	KS	1,503,406	39	NY	1,247,762	50	IL	390,897
7	UT	1,999,527	18	AL	1,613,912	29	MA	1,447,599	40	MS	1,234,640	51	TX	347,257
8	PA	1,993,744	19	NH	1,608,169	30	AK	1,434,069	41	MN	1,209,213	52	VI	233,462
9	MD	1,980,787	20	WY	1,590,384	31	LA	1,407,671	42	HI	1,047,703	53	PR	213,579
10	WA	1,851,057	21	WV	1,561,628	32	WI	1,385,132	43	DC	982,924	54	GU	201,031
11	OH	1,840,437	22	NM	1,557,335	33	MT	1,357,073	44	MI	915,989	55	AS	0

* *Business Activity – Retail Pharmacies*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Oxycodone Distribution Practitioner's Office



State Ranking

Average Per 100K Population*

Oxycodone

January – December 2017

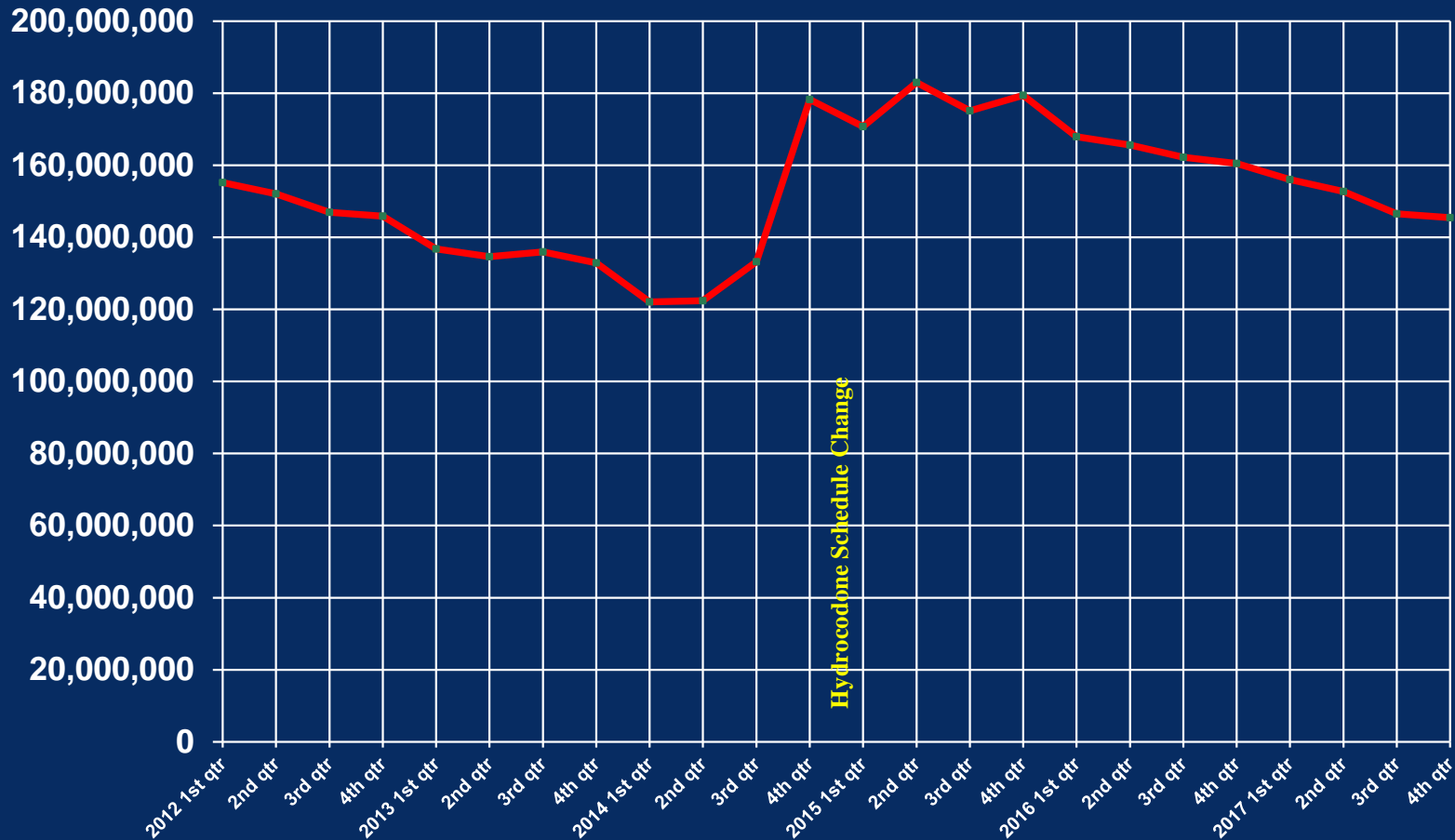
RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	HI	15,309	12	NE	1,118	23	NY	489	34	NM	228	45	RI	86
2	NV	6,877	13	ND	1,079	24	MI	442	35	AR	223	46	TX	71
3	MD	5,964	14	OK	1,047	25	NJ	427	36	UT	218	47	VT	64
4	CT	4,781	15	IA	1,031	26	CA	419	37	ME	211	48	KY	46
5	GA	3,296	16	MN	1,015	27	PA	384	38	NC	203	49	DE	37
6	CO	3,185	17	AZ	946	28	IL	372	39	OH	198	50	NH	15
7	AL	2,517	18	OR	825	29	WY	362	40	MS	183	51	WV	11
8	WI	2,091	19	VA	764	30	DC	332	41	IN	135	52	AS	0
9	ID	1,491	20	KS	613	31	SD	332	42	MT	131	53	GU	0
10	TN	1,276	21	FL	599	32	MO	306	43	MA	109	54	PR	0
11	AK	1,195	22	SC	560	33	WA	264	44	LA	108	55	VI	0

* *Business Activity – Retail Practitioners*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



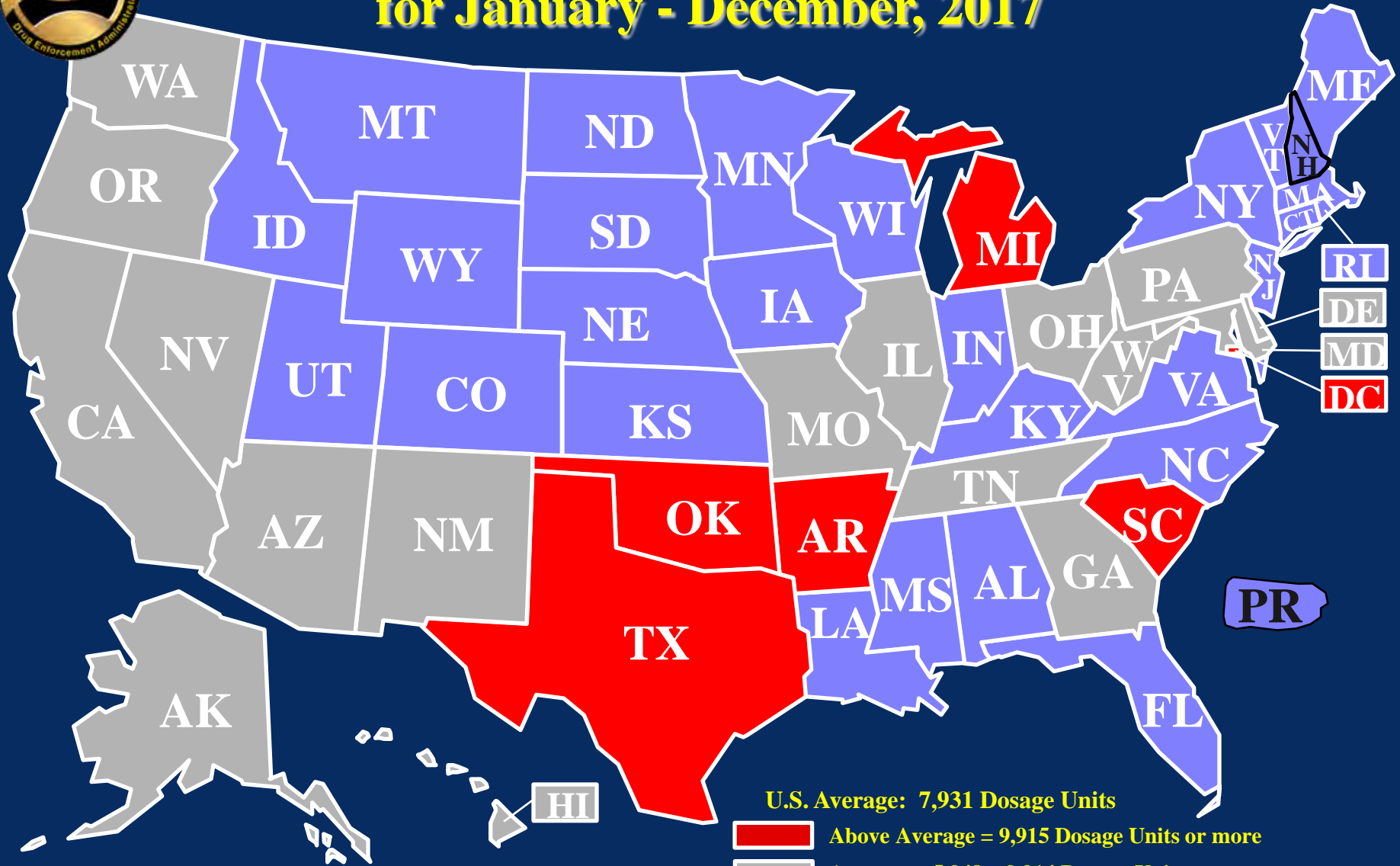
Codeine Distribution 2012-2017 U.S. Totals



TOTAL DOSAGES



Purchases of Codeine for January - December, 2017



U.S. Average: 7,931 Dosage Units

- Above Average = 9,915 Dosage Units or more
- Average = 5,948 – 9,914 Dosage Units
- Below Average = 5,947 Dosage Units or less
- Zero Dosage Units



Codeine Distribution

Retail Pharmacies



State Ranking Average Per 100K Population*

Codeine

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	TX	558,944	12	KY	160,788	23	MS	131,527	34	ID	114,898	45	WY	100,776
2	MI	339,570	13	DE	158,838	24	FL	130,259	35	IN	113,251	46	VA	100,235
3	AR	326,690	14	AZ	156,606	25	WI	130,170	36	MN	110,948	47	NE	96,768
4	OK	298,568	15	GA	155,329	26	MT	130,051	37	ND	110,332	48	GU	88,326
5	DC	280,465	16	PA	155,022	27	OR	128,007	38	VI	108,354	49	NH	88,175
6	SC	258,727	17	MD	149,039	28	WA	127,937	39	NY	105,322	50	VT	83,141
7	WV	227,039	18	AL	146,346	29	OH	127,877	40	MA	105,180	51	UT	78,268
8	TN	199,376	19	KS	141,762	30	SD	127,396	41	RI	103,770	52	NC	75,611
9	IL	194,399	20	NV	134,291	31	HI	125,737	42	AK	103,396	53	CO	66,449
10	CA	179,625	21	NJ	133,024	32	NM	118,756	43	IA	102,874	54	PR	55,592
11	MO	168,685	22	LA	131,654	33	ME	118,450	44	CT	101,766	55	AS	0

* *Business Activity – Retail Pharmacies*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Codeine Distribution Practitioner's Office



State Ranking Average Per 100K Population* Codeine January – December 2017

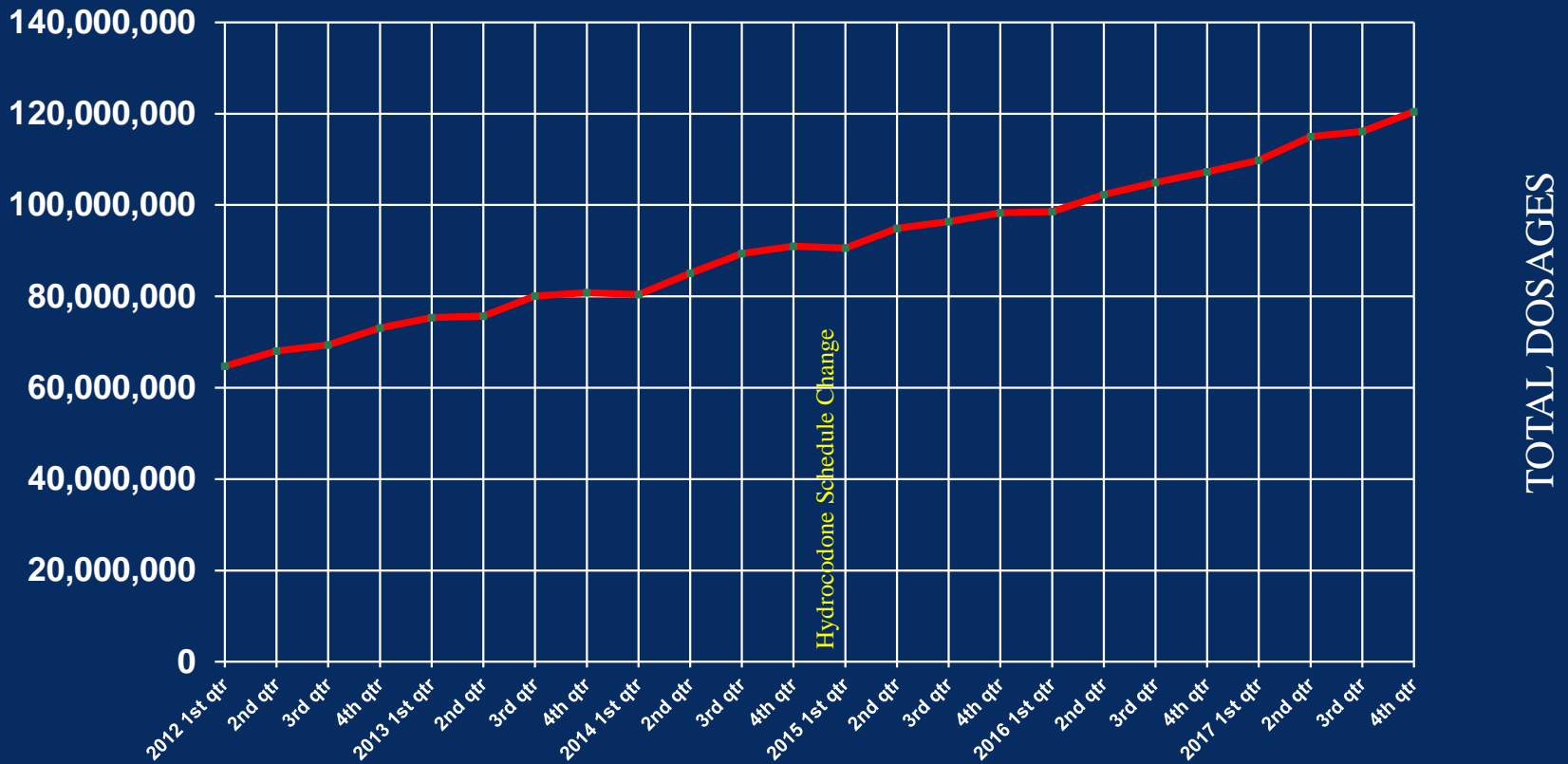
RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	PA	9,030	12	OK	1,723	23	NY	932	34	SD	393	45	WV	194
2	MD	5,841	13	TN	1,571	24	ND	862	35	GU	392	46	VI	182
3	WA	4,279	14	AL	1,539	25	AR	723	36	LA	390	47	NM	167
4	ID	4,170	15	GA	1,538	26	MT	703	37	WI	389	48	MS	108
5	CA	3,806	16	WY	1,265	27	TX	645	38	DC	332	49	OH	105
6	OR	3,794	17	HI	1,219	28	MA	603	39	NV	331	50	NC	64
7	VA	3,013	18	IL	1,198	29	DE	565	40	FL	285	51	VT	56
8	NE	2,609	19	KS	1,168	30	ME	467	41	IN	239	52	NH	39
9	AZ	2,454	20	MI	941	31	KY	449	42	CT	238	53	AS	0
10	NJ	2,352	21	MN	941	32	IA	440	43	UT	235	54	PR	0
11	MO	2,040	22	CO	935	33	AK	428	44	SC	196	55	RI	0

* *Business Activity – Retail Practitioners*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Buprenorphine Distribution 2012-2017 U.S. Totals



TOTAL DOSAGES



Buprenorphine Distribution

Retail Pharmacies



State Ranking Average Per 100K Population* Buprenorphine January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	VT	436,048	12	CT	217,275	23	IN	159,146	34	MT	110,046	45	IL	61,765
2	KY	407,009	13	LA	215,372	24	OK	154,844	35	AR	105,607	46	CA	60,115
3	WV	398,890	14	MD	214,742	25	MI	151,375	36	HI	97,804	47	TX	57,735
4	ME	376,757	15	DC	200,353	26	WA	150,098	37	WI	90,170	48	KS	47,550
5	RI	361,231	16	UT	190,899	27	NY	148,466	38	GA	85,588	49	NE	37,191
6	MA	322,898	17	NM	172,452	28	OR	139,886	39	MO	84,972	50	PR	32,169
7	NH	320,500	18	MS	169,449	29	FL	128,596	40	AZ	78,512	51	SD	28,934
8	TN	280,492	19	NJ	163,796	30	VA	126,434	41	CO	74,861	52	IA	25,548
9	AL	254,742	20	NC	162,615	31	ID	118,328	42	MN	72,696	53	VI	7,148
10	PA	251,184	21	DE	160,834	32	SC	114,690	43	NV	68,093	54	GU	269
11	OH	226,748	22	AK	160,797	33	WY	113,050	44	ND	66,964	55	AS	0

* *Business Activity – Retail Pharmacies*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Buprenorphine Distribution Practitioner's Office



State Ranking

Average Per 100K Population*

Buprenorphine

January – December 2017

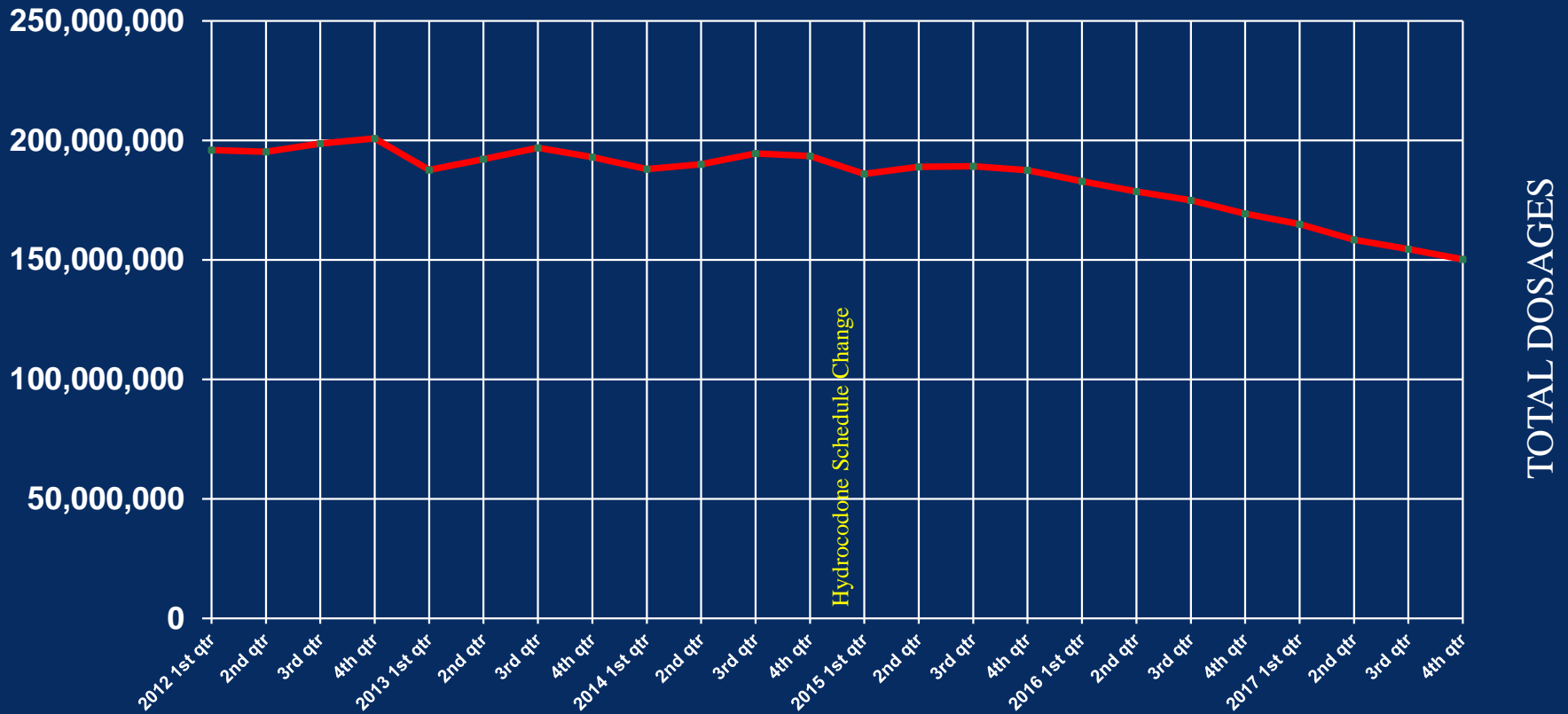
RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	MD	1,912	12	WA	197	23	CO	45	34	MA	6	45	GU	0
2	PA	1,902	13	OH	147	24	ND	40	35	LA	5	46	HI	0
3	NV	1,694	14	AK	132	25	TN	36	36	RI	5	47	ID	0
4	MI	887	15	AZ	116	26	NH	32	37	WV	5	48	IA	0
5	NM	659	16	SC	100	27	VA	27	38	ME	3	49	MT	0
6	OR	556	17	KS	95	28	KY	22	39	CT	2	50	NE	0
7	NJ	520	18	NY	93	29	IN	20	40	MS	2	51	PR	0
8	TX	356	19	AL	71	30	MN	19	41	UT	2	52	SD	0
9	CA	325	20	GA	61	31	NC	19	42	AS	0	53	VT	0
10	FL	268	21	MO	53	32	IL	11	43	AR	0	54	VI	0
11	WI	239	22	OK	52	33	DE	7	44	DC	0	55	WY	0

* *Business Activity – Retail Practitioners*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Morphine Distribution 2012-2017 U.S. Totals



TOTAL DOSAGES



Morphine Distribution

Retail Pharmacies



State Ranking

Average Per 100K Population*

Morphine

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	AZ	379,991	12	MI	246,764	23	AL	198,989	34	LA	155,827	45	CT	127,781
2	OK	351,037	13	AR	233,779	24	CO	198,616	35	IA	148,426	46	NJ	120,539
3	DE	349,488	14	VT	218,336	25	SC	194,582	36	WV	148,306	47	ND	118,014
4	TN	335,755	15	PA	218,043	26	ME	191,026	37	KY	145,630	48	TX	107,496
5	NV	334,876	16	WI	209,121	27	HI	184,522	38	NE	143,139	49	IL	102,821
6	OR	315,481	17	AK	207,505	28	NC	181,681	39	OH	142,834	50	NY	101,085
7	FL	279,274	18	WY	204,948	29	IN	177,193	40	SD	137,390	51	DC	65,809
8	ID	271,764	19	MD	202,595	30	NM	175,526	41	MA	137,048	52	GU	48,198
9	WA	256,695	20	NH	201,007	31	CA	163,511	42	RI	136,495	53	VI	15,297
10	UT	256,130	21	KS	200,965	32	MS	158,679	43	MN	132,492	54	PR	3,870
11	MT	255,527	22	MO	200,467	33	GA	158,502	44	VA	131,301	55	AS	0

* *Business Activity – Retail Pharmacies*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Morphine Distribution Practitioner's Office



State Ranking

Average Per 100K Population*

Morphine

January – December 2017

RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL	RANK	STATE	TOTAL
1	HI	1,449	12	CO	90	23	CA	32	34	OR	10	45	LA	0
2	MD	973	13	FL	76	24	NY	30	35	IN	8	46	ME	0
3	OK	938	14	AK	63	25	TN	23	36	MN	6	47	MS	0
4	NV	797	15	KS	61	26	MO	22	37	NJ	6	48	NH	0
5	AL	546	16	MI	55	27	SC	19	38	NE	5	49	ND	0
6	CT	539	17	WY	53	28	KY	16	39	NM	5	50	PR	0
7	GA	402	18	DE	42	29	PA	15	40	TX	5	51	RI	0
8	ID	270	19	WA	42	30	NC	14	41	IL	4	52	SD	0
9	WI	158	20	AZ	41	31	MA	11	42	AS	0	53	VT	0
10	UT	107	21	MT	40	32	IA	10	43	DC	0	54	VI	0
11	VA	104	22	AR	34	33	OH	10	44	GU	0	55	WV	0

* *Business Activity – Retail Practitioners*

Source: Drug Enforcement Administration, Office of Diversion Control, Pharmaceutical Investigations Section, Targeting and Analysis Unit
Most current ARCOS information as of 08/27/2016



Drug Trends



Heroin and Fentanyl



Heroin

- **The raw material (opium) to manufacture heroin comes from the poppy plant.**
- **The raw material (opium) comes from outside of the U.S. – Asia, Pakistan, Afghanistan.**
- **Heroin comes in through different drug routes – primarily through Mexico.**
- **Heroin use has increased in the last 5 years.**



Fentanyl

§ Fentanyl is a synthetic opioid.

§ Fentanyl is very powerful (50-100 times more potent than heroin).

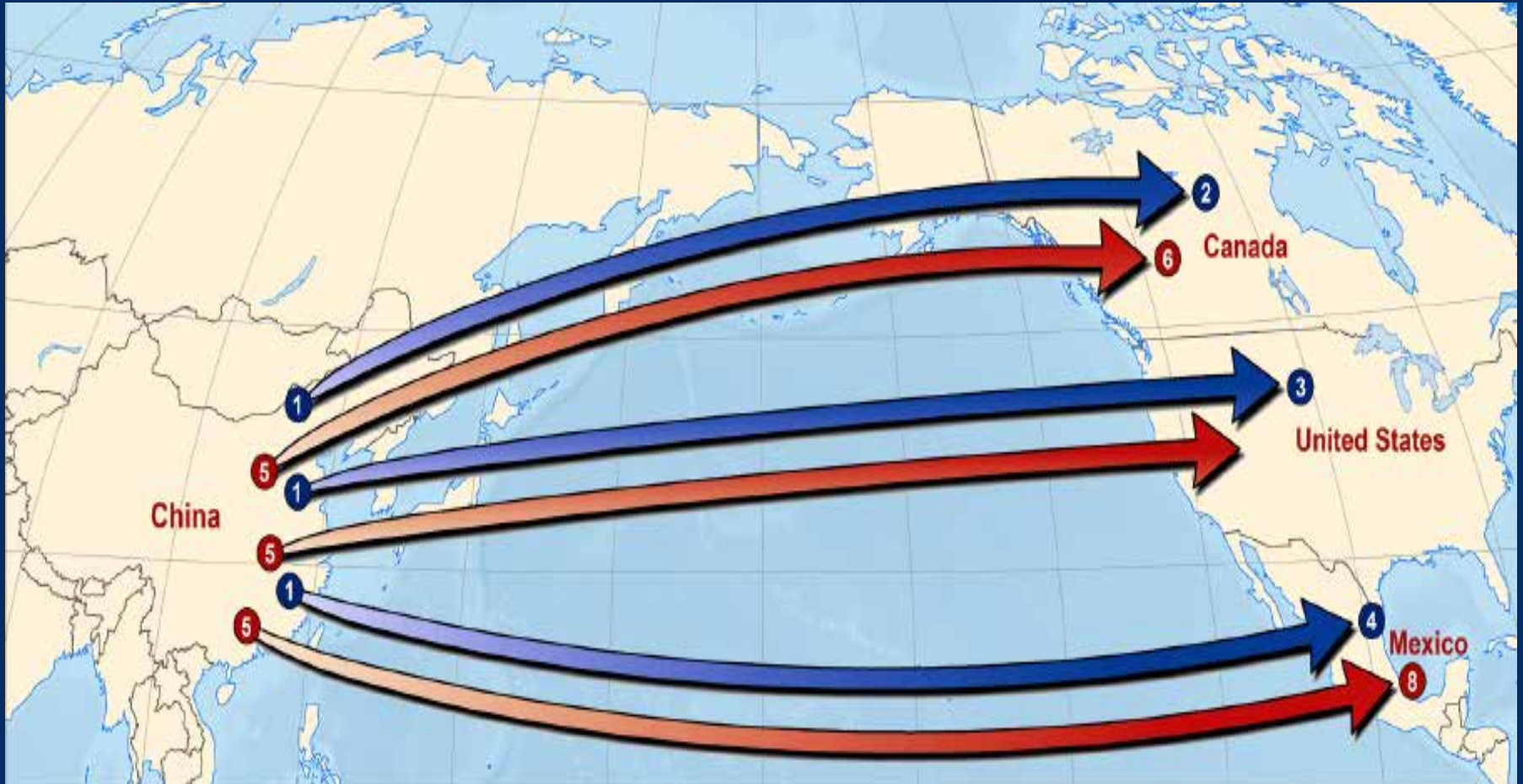
§ Dealers are combining Fentanyl with Heroin, pills, marijuana, counterfeit pills, etc.

§ Carfentanil (100 times more potent than Fentanyl).

§ Carfentanil is stolen or diverted from legitimate channels.



Fentanyl





Fentanyl

§ Is purchased from China and shipped directly to the United States or smuggled through Mexico.

§ May 2015 Chinese Customs seized 46 Kilos of Fentanyl and 26 Kilos of acetyl fentanyl.

§ 6 customs officers became ill

§ 1 in a coma after handling.





Fentanyl

§ Produced in clandestine labs in the United States.

- § DEA LA Field Division
- § Residential location
- § 3 pill presses
- § Powder mixing equipment
- § Ventilation equipment





Fentanyl



Heroin

Fentanyl

Carfentanil

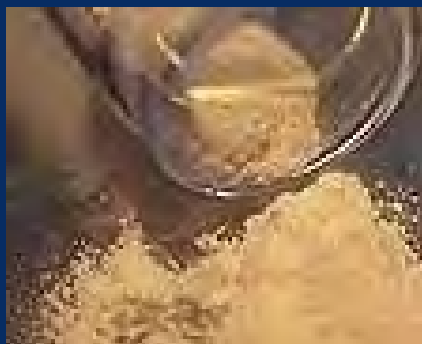
Lethal Dose

DEA



Fentanyl Dangers to Practitioners

- § **Be cautious when inventorying personal items in ED or the hospital.**
- § **Be cautious when touching patients.**
- § **Be cautious when going through a patient's personal items.**
- § **Don't **ever** take back a patient's medications.**



From Pills to Heroin





From Pills to Heroin

§ 75% of heroin users switched after first using controlled substance prescription pain relievers.

§ Heroin is much cheaper than prescription drugs.

§ Deck: 1 small bag of heroin (\$8 to \$10)

§ Bundle: 10 bags of heroin



Prescription Drug Abuse Trends



Prescription Drug Abuse

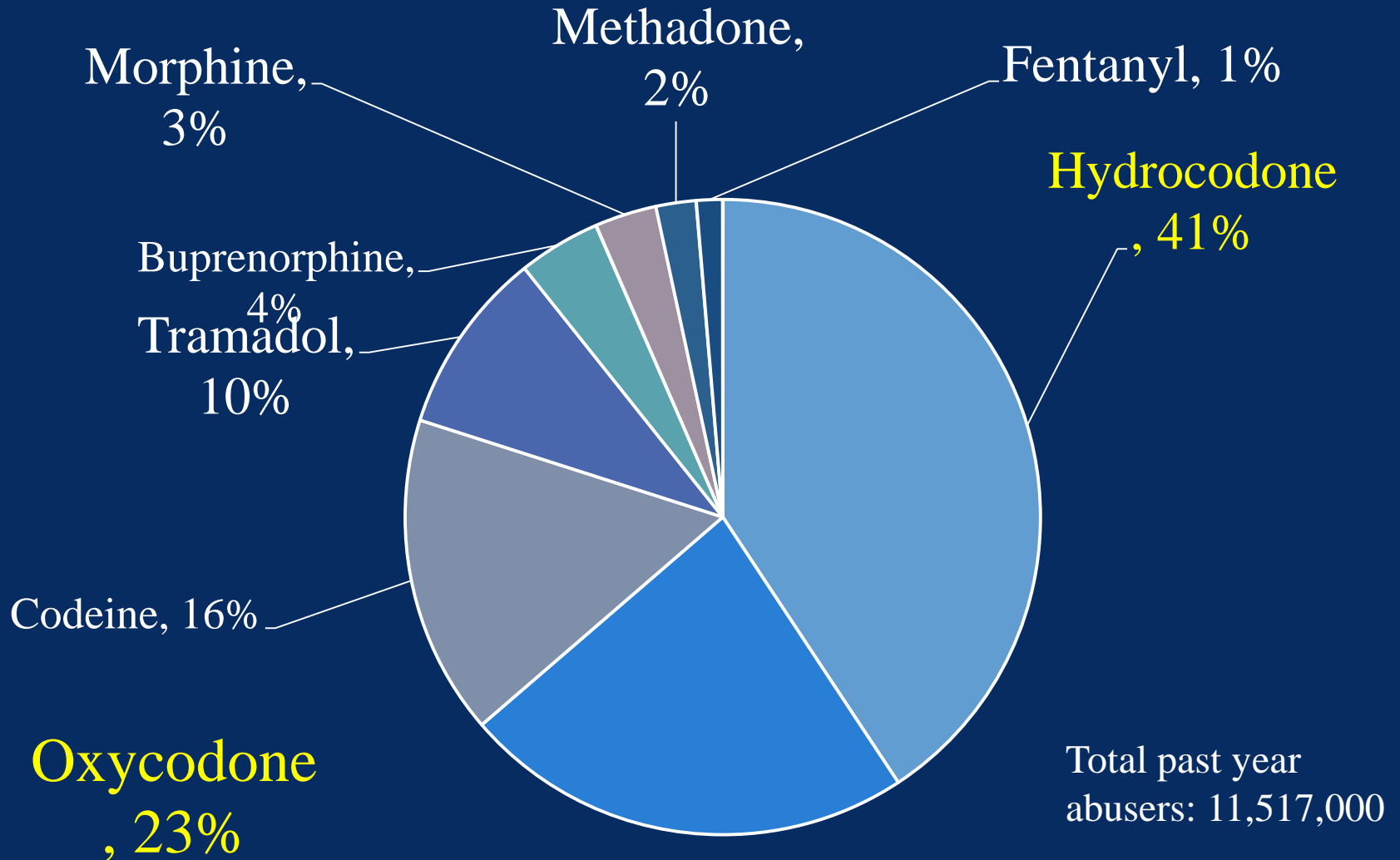
Is Driven By-

**Indiscriminate Prescribing And
Criminal Activity**



Prescription Pain Reliever Misuse

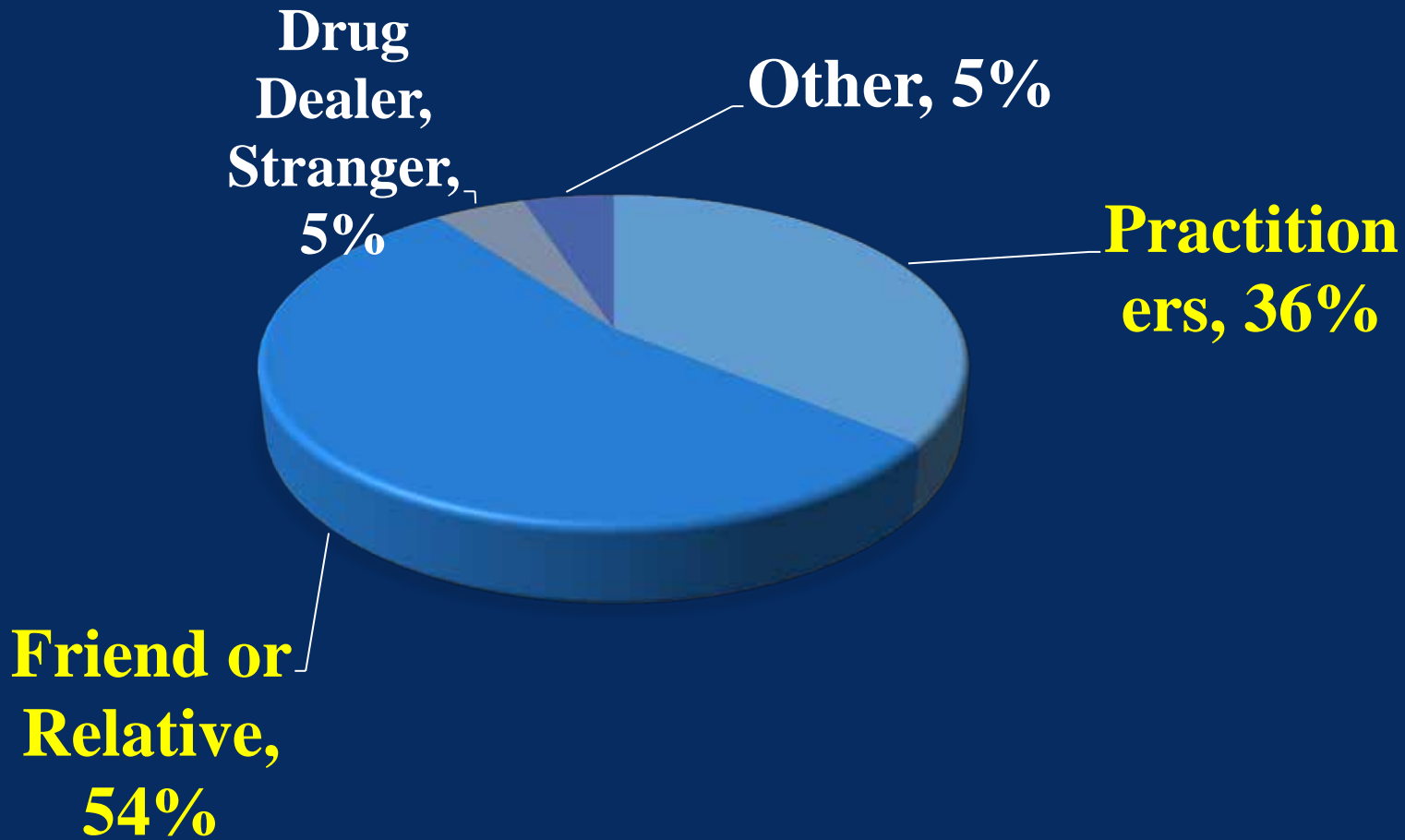
(Age 12 and Older)(2016)



Source: National Survey On Drug Use and Health (2016)



Where Do They Come From?



Source: Department of Health and Human Services



Many Patients Share Prescribed Controlled Substances

University of Pennsylvania Dental School Study:

- § ***More than half of the narcotics prescribed for wisdom teeth removal go unused...findings suggest that more than 100 million pills prescribed go unused... leaving the door open for possible misuse or abuse.**

Source: <https://www.pennmedicine.org/news/news-releases/2016/september/100-million-prescription-opioid>
https://www.nlm.nih.gov/medlineplus/news/fullstory_159336.html



Many Patients Share Prescribed Controlled Substances

John Hopkins Study:

- § **+60% had leftover opioids they hung on for “future use”**
- § **20% shared their medications**
- § **8% likely will share w/ friend**
- § **14% likely will share w/ relative**
- § **>10% securely lock their medication**

Source: <https://www.pennmedicine.org/news/news-releases/2016/september/100-million-prescription-opioid>

https://www.nlm.nih.gov/medlineplus/news/fullstory_159336.html



Many Patients Share Prescribed Controlled Substances

John Hopkins Study:

- § The study further explored adult attitudes towards controlled substances and found:
- § 73 percent of adults agreed that children can overdose on opioids more easily than adults.

Source: <https://www.pennmedicine.org/news/news-releases/2016/september/100-million-prescription-opioid>
https://www.nlm.nih.gov/medlineplus/news/fullstory_159336.html



Many Patients Share Prescribed Controlled Substances

John Hopkins Study:

- § Yet found that 13% of the respondents “worry” about their children accessing their opioid medications.
- § With parents of older children reporting that they were **significantly less** likely to worry about children accessing medications than parents of younger children.

Source: <https://www.pennmedicine.org/news/news-releases/2016/september/100-million-prescription-opioid>
https://www.nlm.nih.gov/medlineplus/news/fullstory_159336.html



Violence





Violence Associated With Opiates

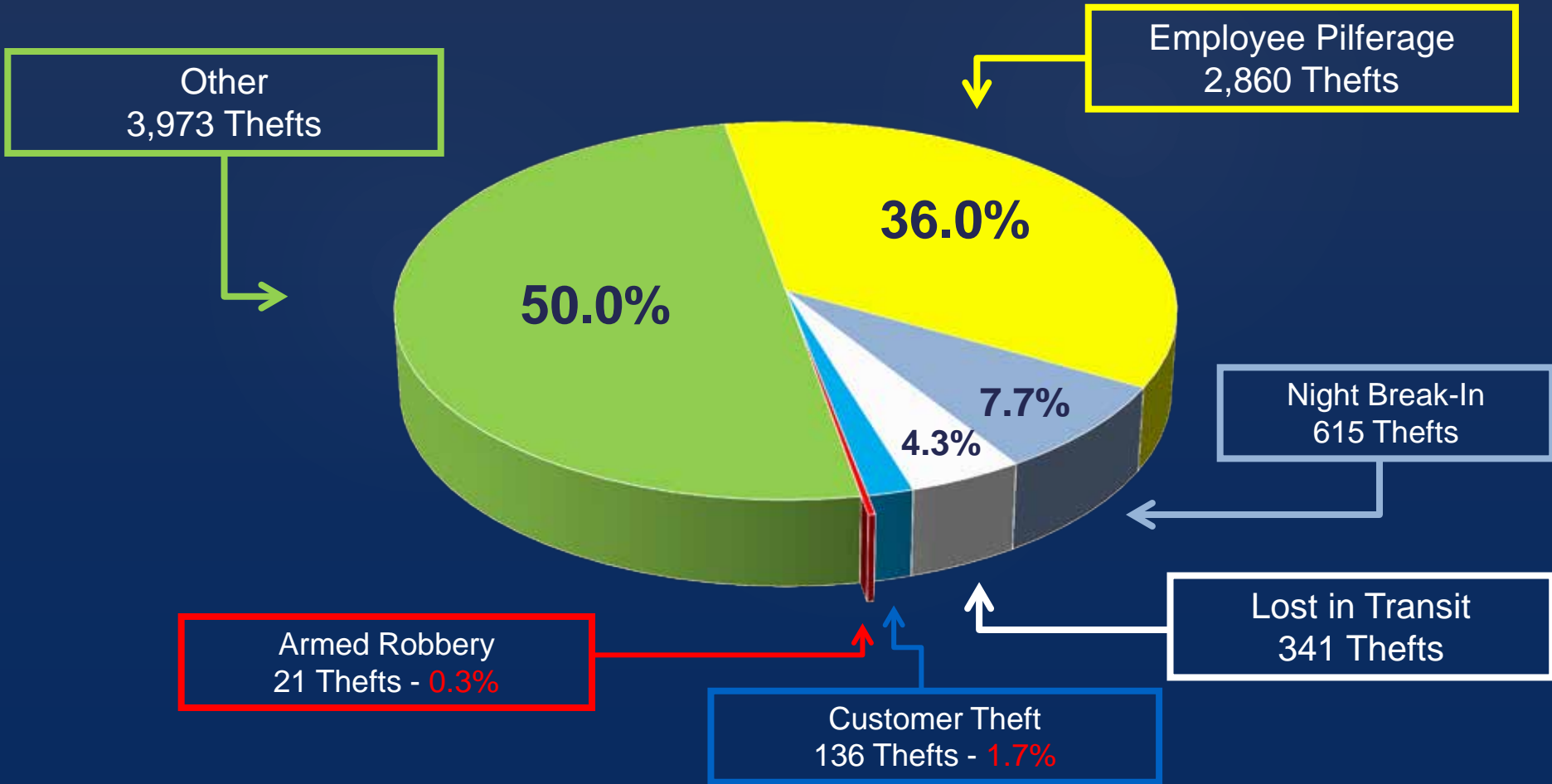
Communities undergo:

- § **Drug related crimes**
 - a. **Robberies**
 - b. **Burglaries/break ins**
 - c. **Drug thefts**
- § **Abuse and neglect of children**
- § **Domestic violence in the home**
- § **Increase of arrests**



Nationwide Practitioners Thefts

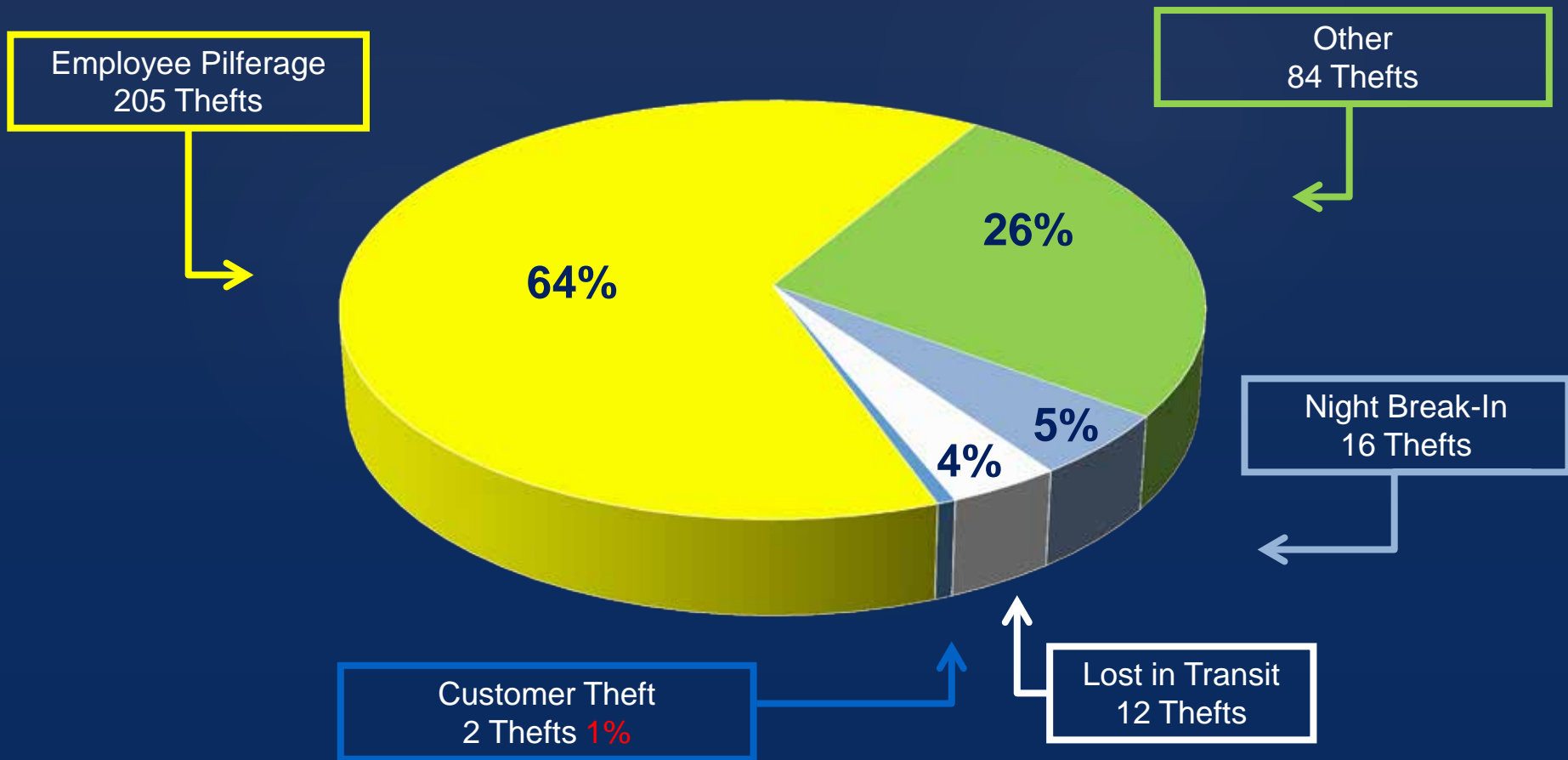
January 1, 2009 – December 31, 2017





Tennessee Practitioner Thefts

January 1, 2009 – December 31, 2017





CDC Guidelines

Prescribing Opioids for Chronic Pain

Clinical Reminders:

- § **Opioids are not first-line or routine therapy for chronic pain.**
- § **Establish and measure goals for pain and function.**
- § **Discuss benefits, risks and availability of non opioid therapies with patients.**

Source: CDC Morbidity & Mortality Weekly Report **CDC
Guideline for Prescribing Opioids for Chronic Pain —
United States, 2016, March 15, 2016**
www.cdc.gov/drugoverdose/prescribing/guideline.html



CDC Guidelines

Prescribing Opioids for Chronic Pain

Clinical Reminders:

- § **Use immediate-release opioids when starting.**
- § **Start low and go slow.**
- § **When opioids are needed for acute pain, prescribe no more than needed.**

Source: CDC Morbidity & Mortality Weekly Report **CDC
Guideline for Prescribing Opioids for Chronic Pain —
United States, 2016, March 15, 2016**
www.cdc.gov/drugoverdose/prescribing/guideline.html



CDC Guidelines

Prescribing Opioids for Chronic Pain

Clinical Reminders:

- § **Do not prescribe ER/LA opioids for acute pain.**
- § **Follow-up and re-evaluate risk of harm; reduce dose or taper and discontinue if needed.**
- § **Evaluate risk factors for opioid-related harms.**

Source: CDC Morbidity & Mortality Weekly Report CDC
Guideline for Prescribing Opioids for Chronic Pain —
United States, 2016, March 15, 2016
www.cdc.gov/drugoverdose/prescribing/guideline.html



CDC Guidelines

Prescribing Opioids for Chronic Pain

Clinical Reminders:

- § **Check PDMP for higher dosages and prescriptions from other providers.**
- § **Use urine drug testing to identify prescribed substances and undisclosed use.**
- § **Avoid concurrent benzodiazepine and opioid prescribing.**
- § **Arrange treatment for opioid use disorder if needed.**



Survey of Long-Term Painkiller Users

- § Majority say their doctor talked about possibility of addiction or dependence – **61% say there was no discussion about plan to get them off.**

- § Majority say they used the drugs to relieve pain. Other major reasons for taking them:
 - § **20%** - “for fun or get high”
 - § **14%** - “to deal with day-to-day stress”
 - § **10%** - “to relax or relieve tension”

Source: Washington Post/Kaiser Family Foundation
Survey of Long-Term Prescription Painkiller Users and
Their Household Members, December 2016



Survey of Long-Term Painkiller Users

§ Other Findings:

- § **34% admit being dependent or addicted.**
- § **17% have taken painkillers that were not specifically prescribed for them.**
- § **14% have given their painkillers to a family member or friend.**
- § **20% know or suspect someone was using, taking or selling their painkillers.**

Source: Washington Post/Kaiser Family Foundation
Survey of Long-Term Prescription Painkiller Users and
Their Household Members, December 2016



Post Questions

- 1. Which country, per million population, has the largest amount of drug induced deaths ages 15-64?**
 - A. Sweden**
 - B. Germany**
 - C. United States**
 - D. Russia**
 - E. China**



Post Questions

- 2. Where does Pennsylvania rate in the United States in the amount of Oxycodone dispensed?**
- A. 15th**
 - B. 48th**
 - C. 8th**
 - D. 25th**



Post Questions

3. What percentage of the world's hydrocodone production does the United States consume?

- A. Less than 10%**
- B. 34%**
- C. 50%**
- D. More than 70%**



Post Questions

- 4. What is the most misused prescription controlled substance pain reliever in the United States?**
- A. Oxycodone**
 - B. Morphine**
 - C. Hydrocodone**
 - D. Codeine**



Post Questions

- 5. What percent of heroin users began their addictions with prescribed pain relievers?**
- A. 15%**
 - B. 40%**
 - C. 75%**
 - D. 90%**
 - E. 99%**



*Thank-you for your time
and attention !*

