

The Evolving Opioid Crisis: Overdose Trends and Variation across the States

Robert Hest, MPP Colin Planalp, MPA

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Background



Photo: Alastair Rae

What are opioids?

 A <u>family</u> of addictive drugs that <u>act on</u> the opioid receptors in pleasure centers of the brain

What are their effects?

Can <u>relieve pain</u> and <u>cause euphoria</u>



Opioid crisis



2011 declaration of "epidemic"

 Increased attention since U.S. Centers for Disease Control and Prevention declared overdoses from prescription painkillers an "epidemic"

Efforts to intervene

 States and federal governments have taken steps to intervene in the crisis

But the crisis has evolved...

- Growth in deaths from prescription opioids have slowed, but deaths from heroin and synthetic opioids have increased
- Recent increases in cocaine and psychostimulant overdose deaths
- Deliberate and inadvertent mixing of opioids into cocaine and psychostimulants



Opioid-related overdose death rates data

Source

 U.S. Centers for Disease Control and Prevention,
 National Center for Health Statistics, National Vital Statistics System (via WONDER tool)

Opioid-related overdose death rates data

Categories of drug overdose deaths

- Natural and semi-synthetic opioids (i.e., prescription opioid painkillers, such as oxycodone and hydrocodone)
- Synthetic opioids (e.g., fentanyl)
- Heroin
- Cocaine
- Psychostimulants (e.g. methamphetamine, prescription stimulants)

*Excludes some opioid types (e.g., methadone, opium, other or unspecified opioids)

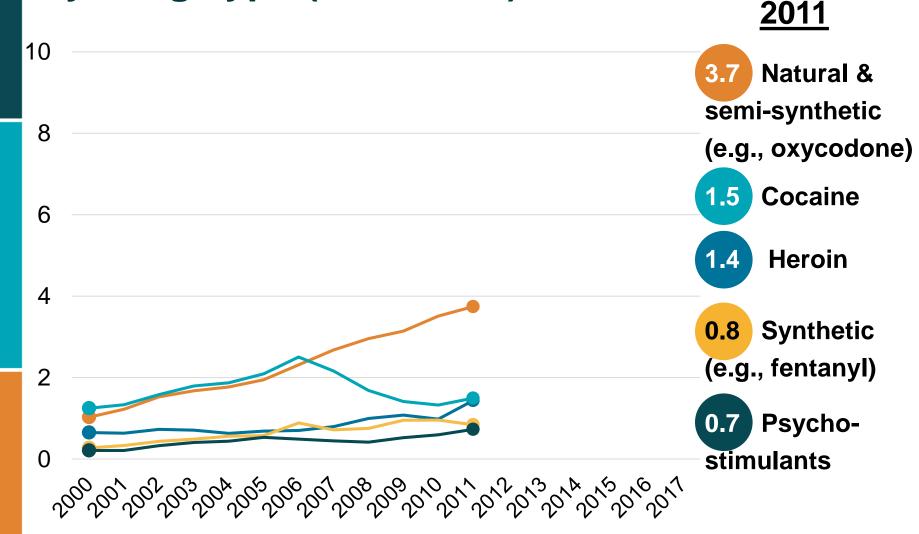


U.S. Trends

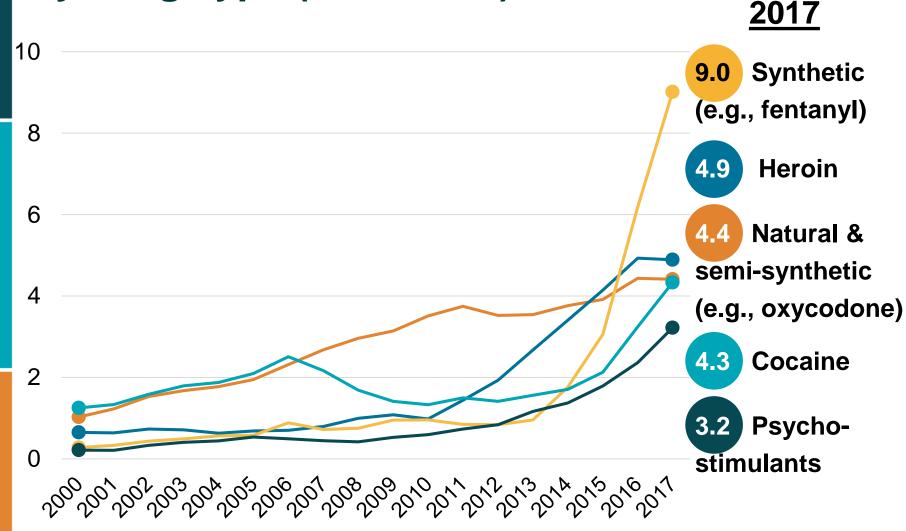
Natural and Semi-synthetic Opioid, Synthetic Opioid, Heroin, Cocaine, and Psychostimulant Overdose Deaths



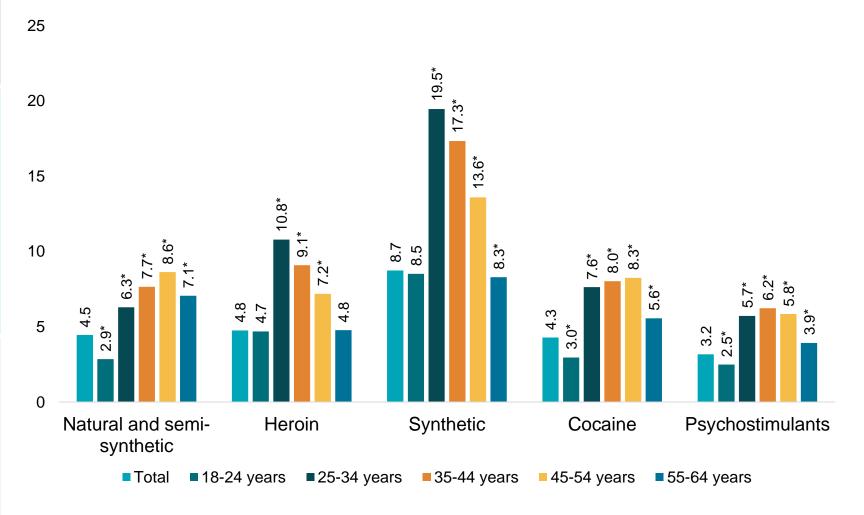
U.S. Opioid Deaths per 100,000 People, by Drug Type (2000-2011)



U.S. Opioid Deaths per 100,000 People, by Drug Type (2000-2017)



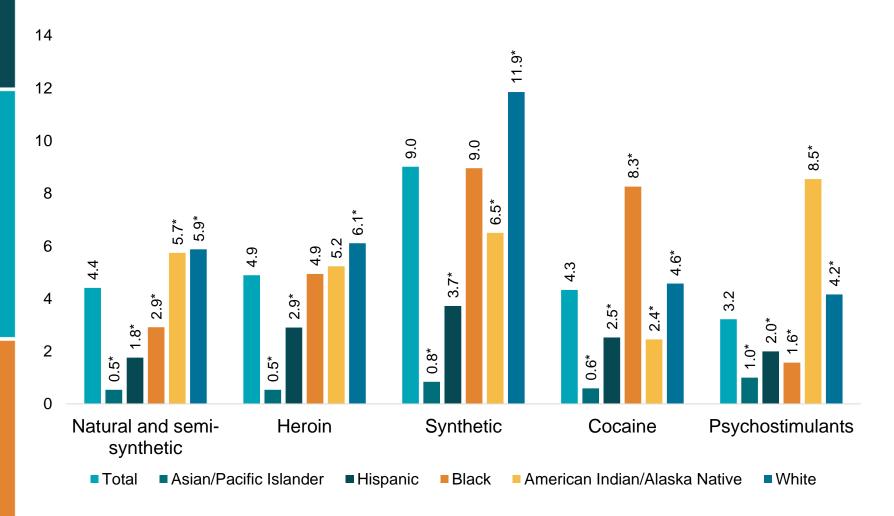
U.S. Opioid Deaths per 100,000 People, by Drug Type and Age (2017)



^{*} Statistically different from total at 95% confidence level Source: SHADAC analysis of age-adjusted rates of drug poisoning deaths, National Center for Health Statistics



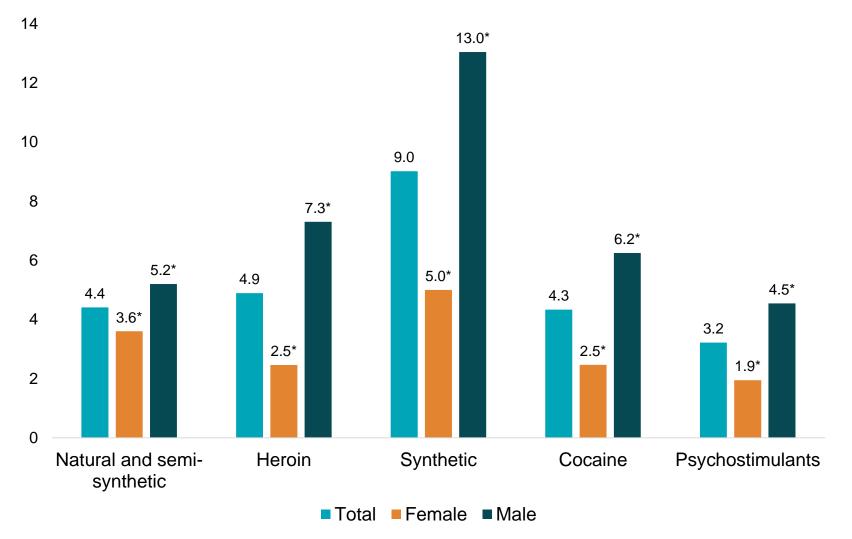
U.S. Opioid Deaths per 100,000 People, by Drug Type and Race/Ethnicity (2017)



^{*} Statistically different from total at 95% confidence level Source: SHADAC analysis of age-adjusted rates of drug poisoning deaths, National Center for Health Statistics



U.S. Opioid Deaths per 100,000 People, by Drug Type and Sex (2017)

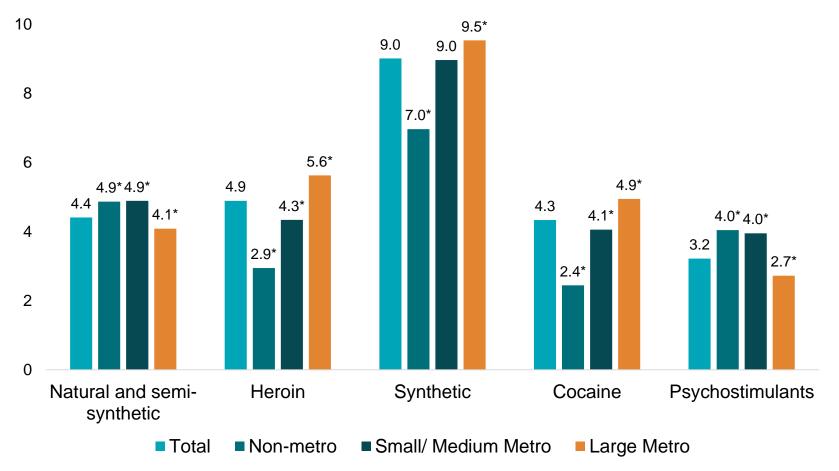


^{*} Statistically different from total at 95% confidence level Source: SHADAC analysis of age-adjusted rates of drug poisoning deaths, National Center for Health Statistics



U.S. Opioid Deaths per 100,000 People, by Drug Type and Metro Status (2017)

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^{*} Statistically different from total at 95% confidence level Source: SHADAC analysis of age-adjusted rates of drug poisoning deaths, National Center for Health Statistics



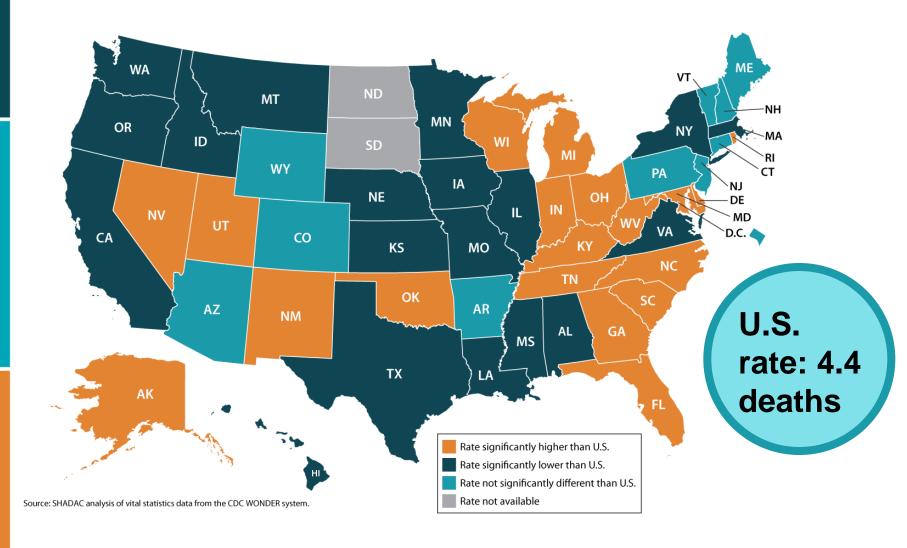
State Trends

Natural and Semi-synthetic Opioid, Synthetic Opioid, Heroin, Cocaine, and Psychostimulant Overdose Deaths

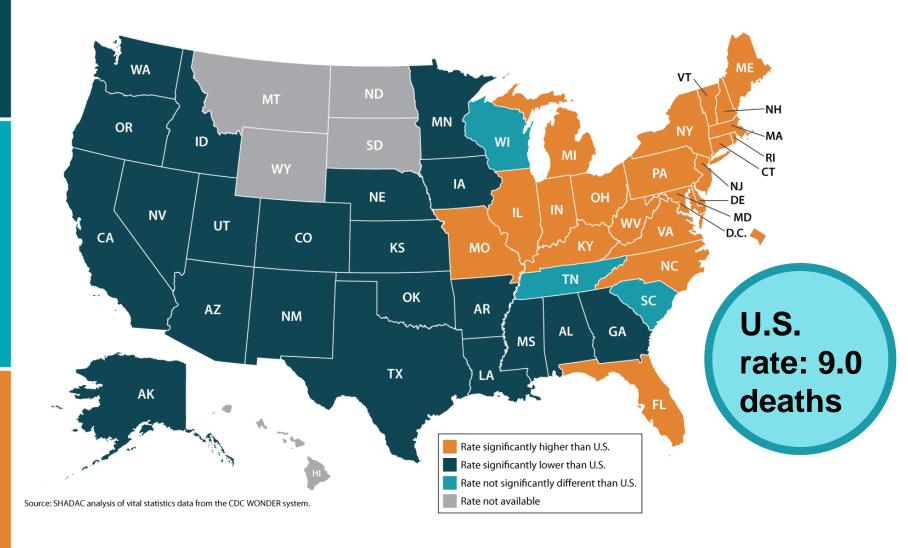
State Overdose Deaths per 100,000, 2017

	Natural and Semi-synthetic Opioids			Synthetic Opioids			Heroin			Cocaine			Psycho- stimulants		
	TOP FIVE STATES			TOP FIVE STATES			TOP FIVE STATES			TOP FIVE STATES			TOP FIVE STA	ATES	
	1. W. Virginia	15.8		1. W. Virginia	37.4		1. Dist. of Columbia	18.0		1. Dist. of Columbia	17.6		1. W. Virginia	13.6	
	2. Utah	10.0		2. Ohio	32.4		2. W. Virginia	14.9		2. Ohio	14.0		2. Alaska	9.1	
	3. Kentucky	9.4		3. New Hampshire	30.4		3. Delaware	13.3		3. W. Virginia	11.6		3. Arizona	8.5	
	4. Tennessee	8.8		4. Dist. of Columbia	25.7		4. Connecticut	12.4		4. Delaware	11.6		4. Nevada	8.3	
	5. Maryland	8.5		5. Maryland	25.2		5. New Jersey	12.2		5. R. Island	11.2		5. New Mexico	8.2	
9	BOTTOM FIVE 3		31	X BOTTOM FIVE 2 STATES		0>	BOTTOM FIVE STATES		22	BOTTOM FIVE STATES			5x BOTTOM FIVE STATES		
	1. Nebraska	1.7		1. Kansas	1.2		1. Kansas	0.9		1. Arkansas	0.8		1. New Jersey	0.9	
	2. Texas	1.9		2. Texas	1.2		2. Mississippi	1.3		2. Kansas	0.8		2. New York	1.0	
	3. Montana	2.0		3. Nebraska	1.3		3. Idaho	1.5		3. Oregon	0.9		3. Massachusetts	1.0	
	4. Hawaii	2.1		4. Idaho	1.3		4. Oklahoma	1.6		4. California	1.0		4. Maryland	1.2	
	5. California	2.3		5. California	1.3		5. California	1.7		5. Oklahoma	1.1		5. Connecticut	1.2	
	United States	4.4		United States	9.0		United States	4.9		United States	4.3		United States	3.2	

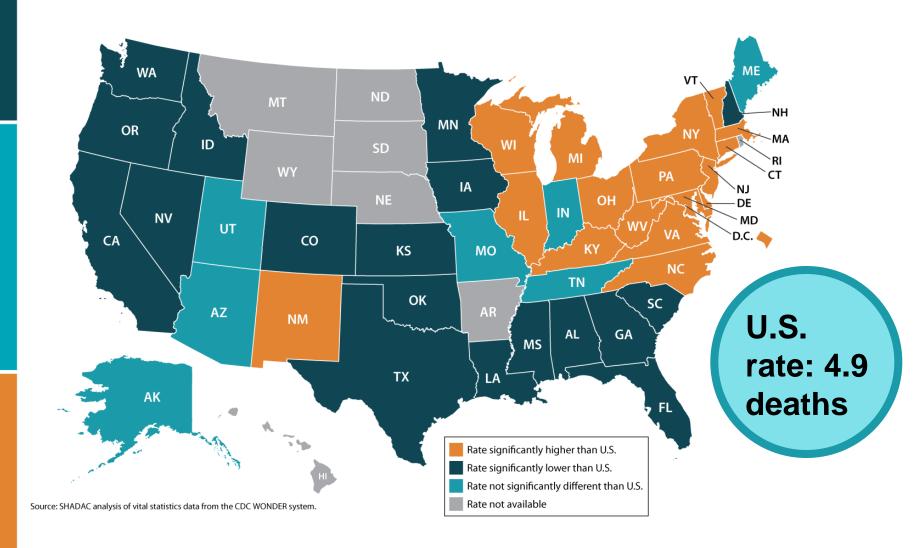
2017 Overdose Deaths per 100,000 People, Natural and Semi-synthetic Opioids



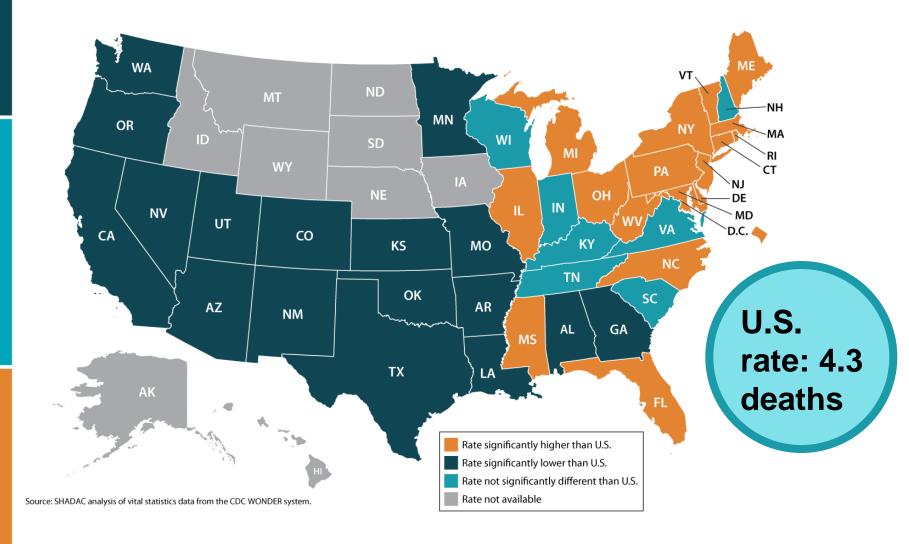
2017 Overdose Deaths per 100,000 People, Synthetic Opioids



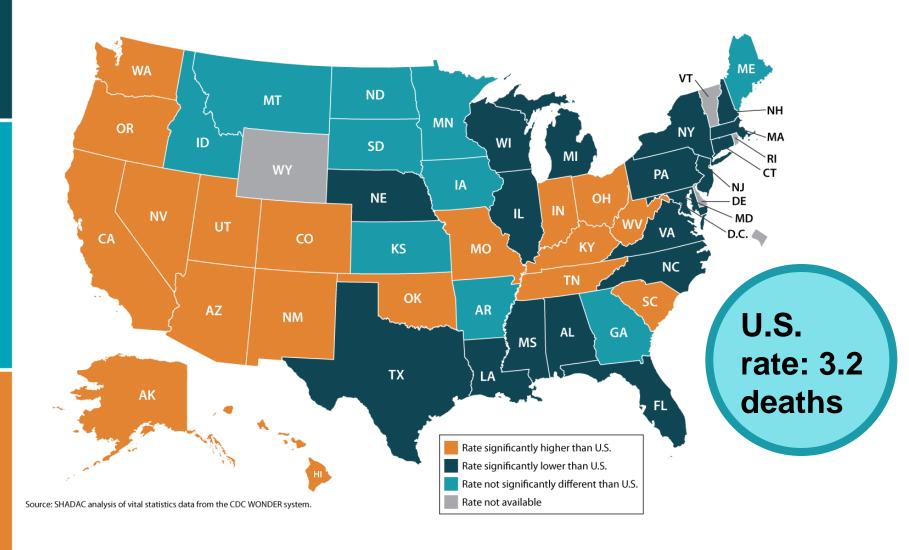
2017 Overdose Deaths per 100,000 People, Heroin



2017 Overdose Deaths per 100,000 People, Cocaine



2017 Overdose Deaths per 100,000 People, Psychostimulants



Discussion

- Opioid crisis evolved over time
- Prescription opioids → heroin → synthetic opioids, cocaine, psychostimulants
- Crisis not homogenous across subpopulations: age, sex, race/ethnicity, metropolitan status

Discussion

- Nearly all states affected by opioid crisis
- Scale and evolution of problem varies across states
- Understanding the drugs associated with overdose deaths and evolving nature of crisis can help states in devising effective policy interventions
- Potential unintended consequences of policy interventions

Resources

State Health Compare: custom maps and visualizations

- Opioid-related and Other Drug Poisoning Deaths
- Sales of Opioid Painkillers

SHADAC Opioid State Profiles

SHADAC State and National Opioid Briefs

Robert Hest hestx0005@umn.edu

www.shadac.org

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