

The Other Opioid Crisis: Heroin and Fentanyl Kevin L. Zacharoff, MD, FACIP, FACPE, FAAP

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Disclosures

Nothing to Disclose

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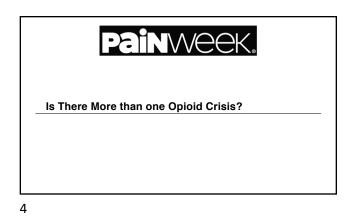
Learning Objectives

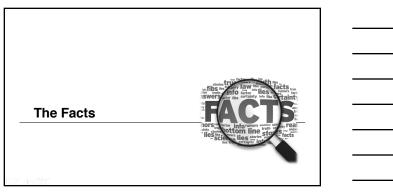
Describe the opioid overdose crisis in the United States today

- •Discuss common beliefs and inconsistencies about the role of prescription opioids in the opioid crisis
- Identify the intersection of illicit drug use and clinical pain practice in today's "opioid epidemic"

 Provide clinically relevant recommendations for navigating the current landscape without depriving pain care to patients in need

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The Facts

- People are dying...
 People are angry and reacting
- People are scared

• Overdoses from drugs (<u>ALL</u> drugs, legally prescribed or not) including opioids, hallucinogens, cocaine, etc.

-~ 72,000 deaths nationwide in 2017

Painweek, There Is More Than One Opioid Crisis. To better tackle the Published Jan. 17, 2018. https://fivetbirtywight.com/feature

• 12% from 2016 • More than 42,000 (~66%) involved some type of opioid *****Some question accuracy regarding CDC overdose data and prescribed opioid analgesics****



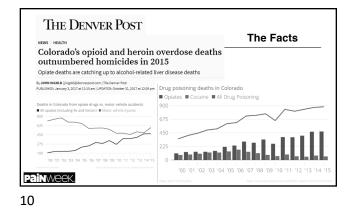
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The Facts Identifying drugs in or In each state, 2016 Drug(s) Responsible May be Unknown Overdose is usually about RESPIRATORY DEPRESSION \$7A1 5995 4,627 755 119 1,528 202 120 4,728 245 2,055 2,075 308 46 547 99 37 115 1,144 55 55 461 830 830 62 172 253 199 119 Sometimes causes are not reported May depend on the state Trends can be difficult to identify This may lead to a lack of focus There is More Than One Opiod Crisis. To better tackle the epidemic, Kentucky neede overdoses. By Kahtyn Casteel Published Jan. 17, 2018. https://webit.esioht.op/ North Da Painweek.

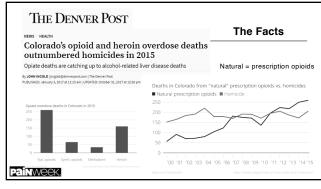
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The most common drugs found in Kentucky's overdose victims Based on an analysis of 1,471 drug overdose deaths in 2016						
Individual drugs		Two-drug combinations	(Three-drug combinations		
DRUG	SHARE	DRUGS	SHARE	DRUGS	SHARE	
Morphine	45.4%	Heroin, morphine	24.3%	Heroin, morphine, codeine	16.6	
Fentanyl	37.0	Fentanyl, morphine	23.7	Heroin, morphine, fentanyl	11.6	
Gabapentin	32.6	Codeine, morphine	20.0	Morphine, codeine, fentanyl	9.3	
Alprazolam	25.5	Heroin, codeine	16.6	Heroin, morphine, THC-COOH	7.9	
THC-COOH	24.9	Gabapentin, morphine	14.2	Heroin, codeine, fentanyl	7.6	
Heroin	24.7	Morphine, THC-COOH	12.8	Fentanyl, morphine, THC-COOH	7.3	
Codeine	20.7	Alprazolam, morphine	12.6	Alprazolam, heroin, morphine	7.3	
Ethanol	18.4	Methamphetamine, amphetamine	12.0	Gabapentin, heroin, morphine	7.1	
Oxycodone	17.2	Heroin, fentanyl	11.7	Gabapentin, fentanyl, morphine	6.8	
Methamobetamine	17.1	Oxycodone, oxymorphone	11.5	Alprazolam, codeine, morphine	6.6	



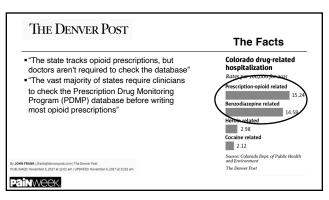




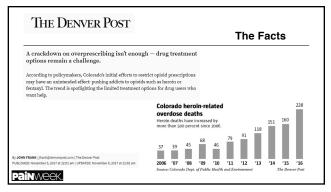




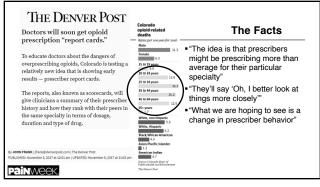


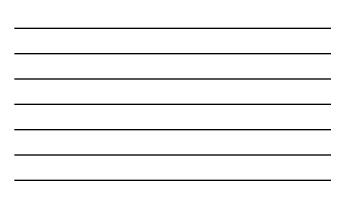


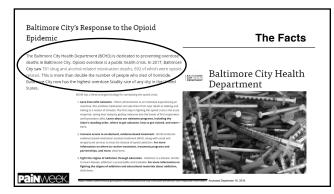


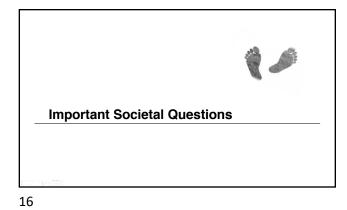






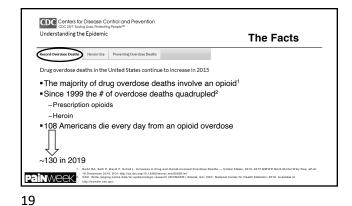


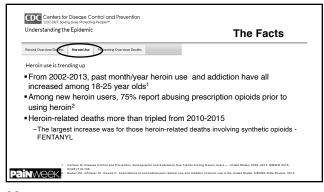




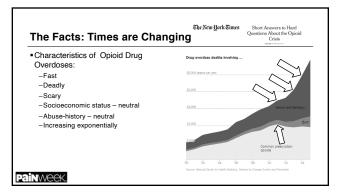














Conterls for Disease Control and Prevention CDC 24/7. Soving Lives. Protecting People¹⁴⁴ Understanding the Epidemic

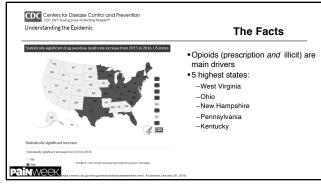
The Clinical Implications

Record Overdose Deaths Heroin Use Preventing Overdose D

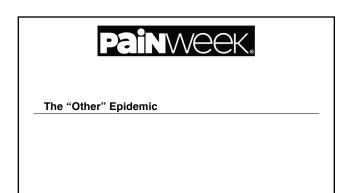
- Improved opioid prescribing
- Expanded access to substance abuse treatment
- Naloxone
- Prescription Drug Monitoring Programs (PDMPs)
- State-level strategies to prevent high risk prescribing and opioid overdoses
 Improved detection of illegal opioid use by law enforcement

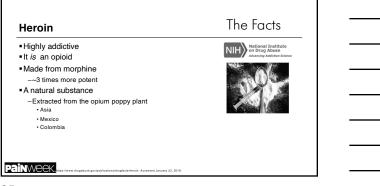
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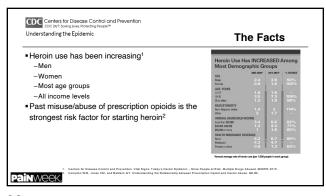


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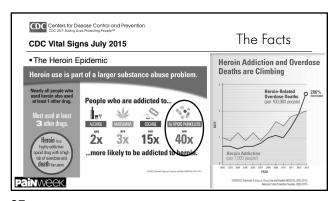




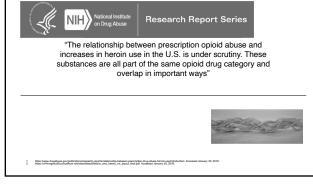


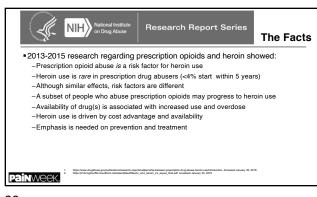


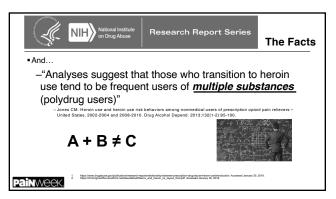




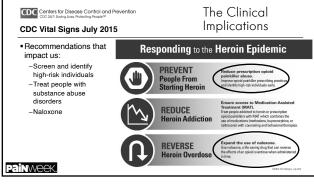




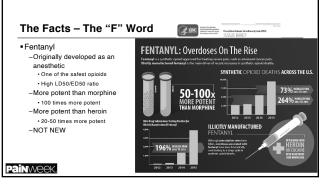




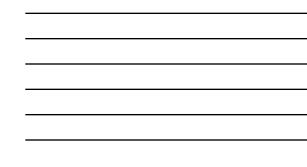




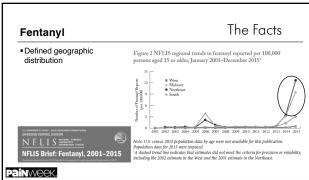




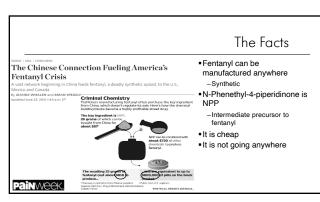




Fentanyl	The Facts		
 Drug seizures involving fentanyl 	Drug seizures containing fentanyl		
increased dramatically between	30.000		
2000-2016	Fentanyl reports		
	20,000		
	15,000		
	10,000		
U.S. DEMARMENT OF AUSTICE + DRUG ENVERTEMENT ADMINISTRATION DIVERSION CONTROL DIVISION	A 2006 spike was traced to a single lab in Mexico		
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15		
NFLIS Brief: Fentanyl, 2001–2015	Source: D.E.A. National Forensic Laboratory Information System		









Terminology

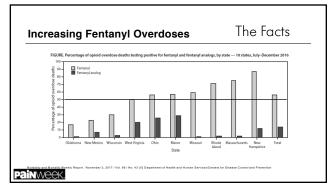
The Facts

- A very small amount of fentanyl is potentially fatal
 This applies to licit or illicit fentanyl
- -Illicitly manufactured fentanyl is likely no more dangerous than legally manufactured fentanyl
- Fentanyl label:
 - -FENTANYL CITRATE SHOULD BE ADMINISTERED ONLY BY PERSONS SPECIFICALLY TRAINED IN THE USE OF INTRAVENOUS ANESTHETICS AND MANAGEMENT OF THE RESPIRATORY EFFECTS OF POTENT OPIOIDS
- -AN OPIOID ANTAGONIST, RESUSCITATIVE AND INTUBATION EQUIPMENT AND OXYGEN SHOULD BE READILY AVAILABLE -Fentanyl may cause muscle rigidity, particularly involving the muscles of respiration
- -DIMINISHED SENSITIVITY TO CO2 STIMULATION MAY PERSIST LONGER THAN DEPRESSION OF RESPIRATORY RATE

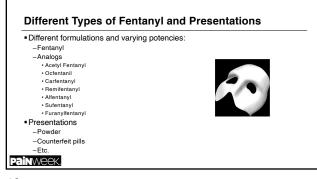
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The Facts

- Fentanyl in the wrong hands is deadly
- Potentially contributing significantly to overdose/fatal overdose risk

Analogs not often tested for in routine toxicology testing

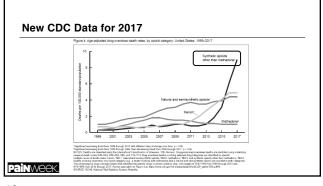
Naloxone is a <u>bridge</u> to survival but not a final solution

-Re-narcotization from fentanyl is common

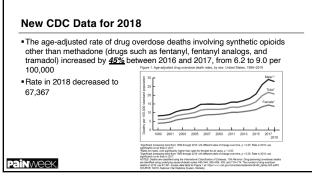
-Blunting of CO₂ response *will persist* -Diminished hypoxic drive may persist



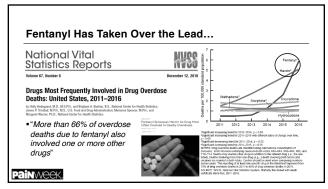
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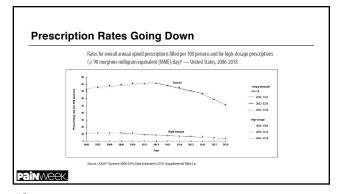




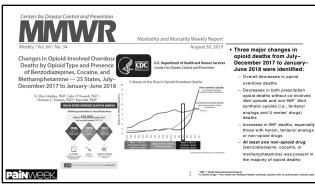




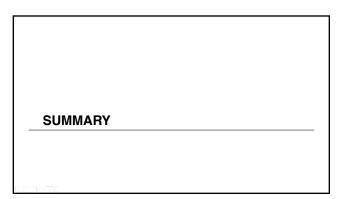


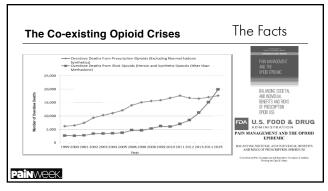




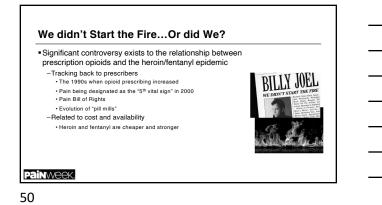














Who and What is Our Responsibility?

We Are Involved Like it or Not

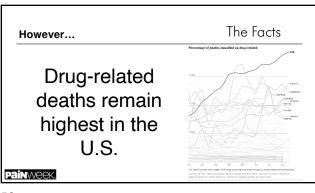
Does the United States Own The Problem??

- •We are not alone
- This *is* a global issueIn 2015, approximately ¼ billion people
- abused/misused drugs - ~ 29.5 million (0.6% of global adult population) engaged in problematic use/suffered from substance use disorder
- 70% of the global burden of disease caused by drug use disorders attributable to opioid use

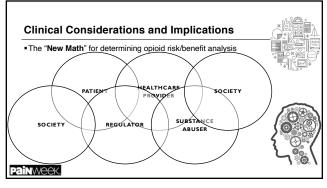


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Final Thoughts

- We must consider the parallel "opioid" crises that exist today -Our role in these problems
- Heroin and fentanyl are not going anywhere
- Remember the "New Math"
- Naloxone is likely something to keep top of mind
 Avoidance of "risky" situations is critical
- Strongly consider and document appropriate candidates for fentanyl-based therapies
- DO NOT CO-PRESCRIBE OPIOIDS and BENZODIAZEPINES
- Everyone is looking at us as an integral part of solving the "other" opioid crisis
 Everyone is looking to us to be a part of the solution to both crises

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