

The Other Opioid Crisis: Heroin and Fentanyl

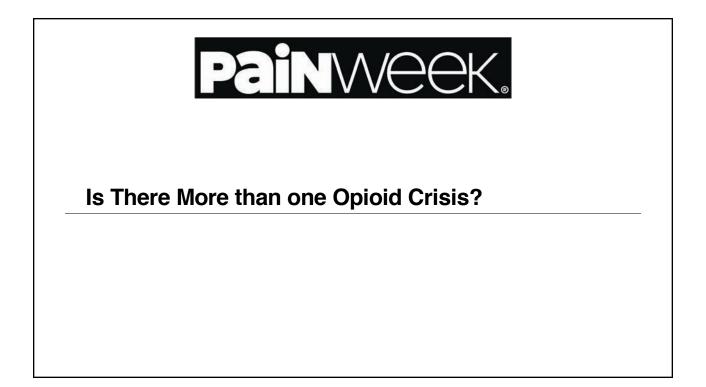
Kevin L. Zacharoff, MD, FACIP, FACPE, FAAP

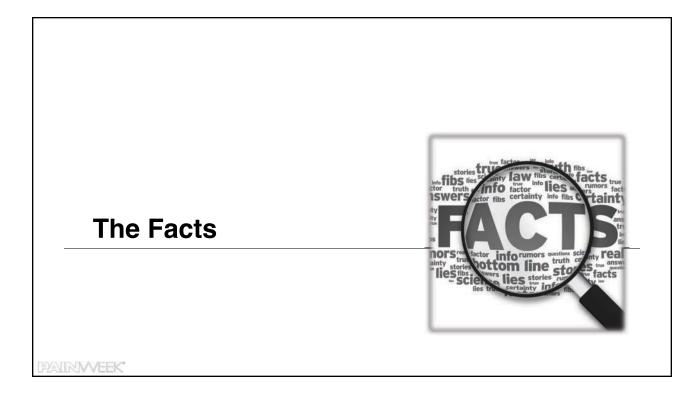
Disclosures

Nothing to Disclose

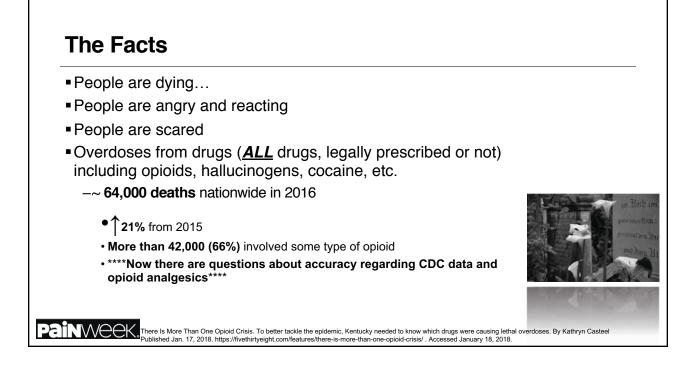
Learning Objectives

- 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





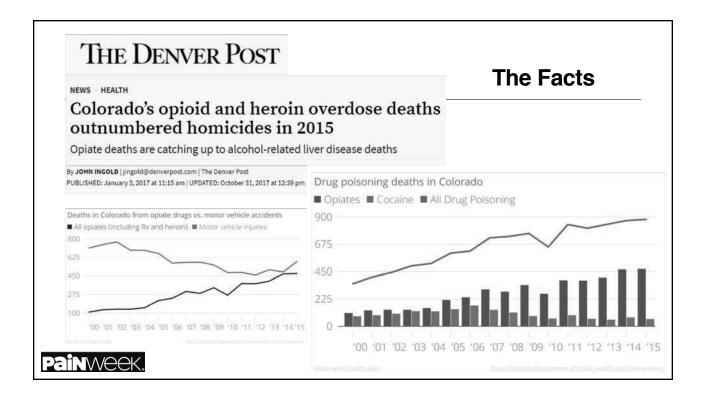


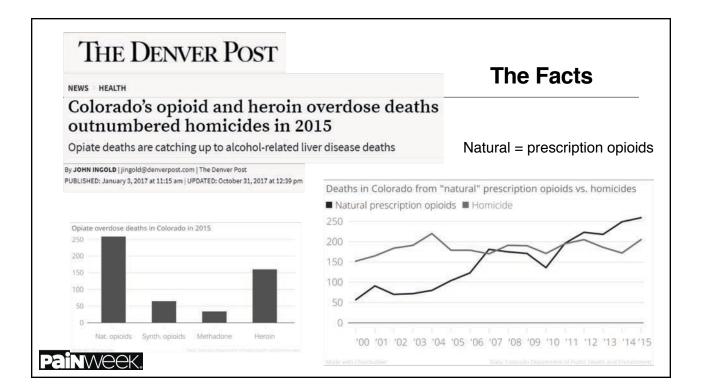


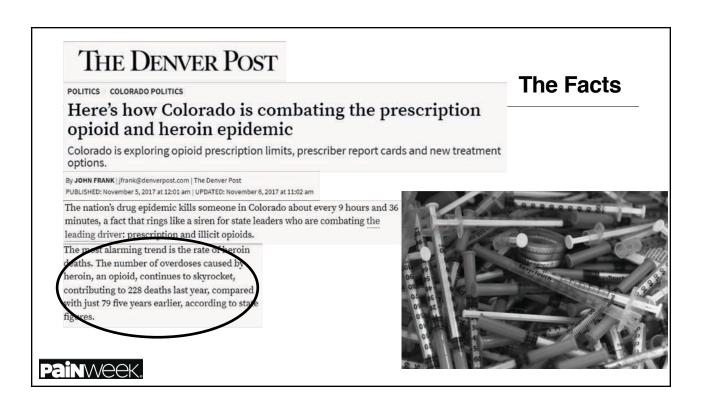
The Facts Identifying drugs in overdose deaths Drug(s) Responsible May be Unknown In each state, 2016 CASES IN WHICH NO DRUG WAS SPECIFIE -Overdose is usually about RESPIRATORY STATE ALL DEATHS TOTA DEPRESSION Louisiana 996 473 47 55 1 Pennsylvan 4.627 2.075 44.8 Sometimes causes are not reported Alabama 756 308 40.7 119 46 Montana 38.7 · May depend on the state 1.526 547 35.8 Indiana · Trends can be difficult to identify Delaware 282 99 35.1 Nebraska 120 37 30.8 This may lead to a lack of focus Arkansas 401 115 28.7 4.728 24.2 Florida 1.144 243 55 22.6 Idaho 2,056 461 22.4 New Jersey Mississipp 352 78 22.2 99 Wyoming 21 21.2 4.654 California 930 20.0 Kansas 313 62 19.8 942 172 18.3 Colorado Kentucky 1.419 253 17.8 There Is More Than One Opioid Crisis. To better tackle the epidemic, Kentucky needed to know which drugs were causing lethal overdoses. By Kathryn Casteel Published Jan. 17, 2018. 1.371 199 14.5 Missouri 77 11 14.3 North Dakota Painweek 1.382 Arizona 196 14.2

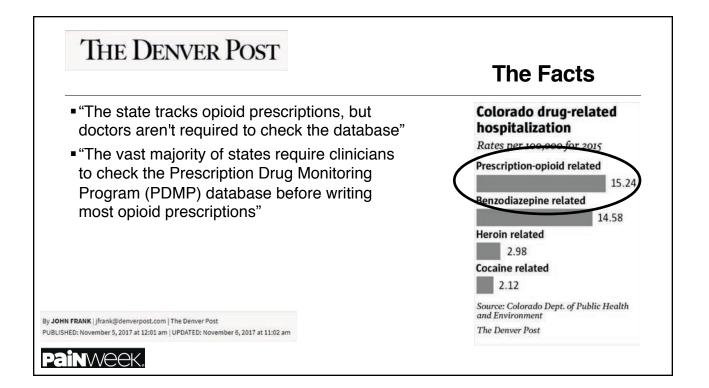
P		mmon drugs found in Kentu d on an analysis of 1,471 drug overd	San San Sand		
Individual drugs		Two-drug combinations	(Three-drug combinations	
DRUG	SHARE	DRUGS	SHARE	DRUGS	SHARE
Morphine	45.4%	Heroin, morphine	24.3%	Heroin, morphine, codeine	16.6
Fentanyl	37.0	Fentanyl, morphine	23.7	Heroin, morphine, 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
тнс-соон	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
Methamphetamine	17.1	Oxycodone, oxymorphone	11.5	Alprazolam, codeine, morphine	6.6

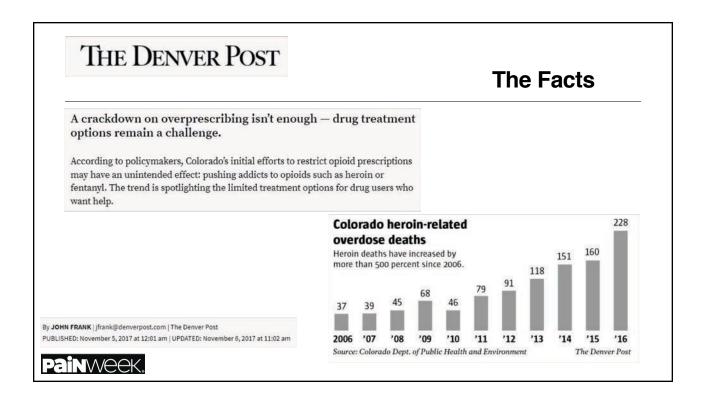
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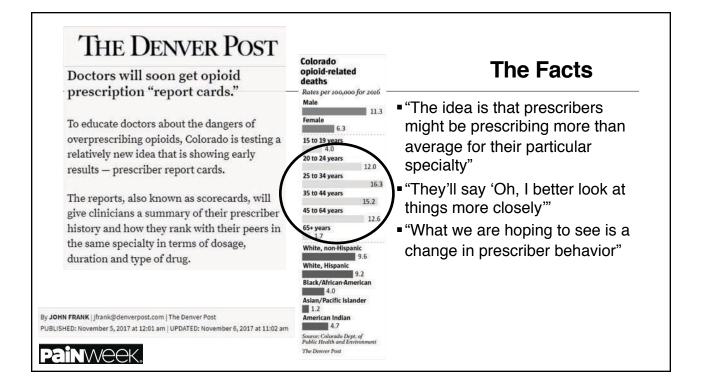
















THE DENVER POST

NEWS HEALTH

Chronic pain patients say they are hurt by Colorado's opioid prescription guidelines

Some Colorado doctors are refusing to prescribe opioids to chronic pain sufferers



David and Marjorie Orthman discuss David's painful form of cystic fibrosis Dec. 6, 2016 at their home.

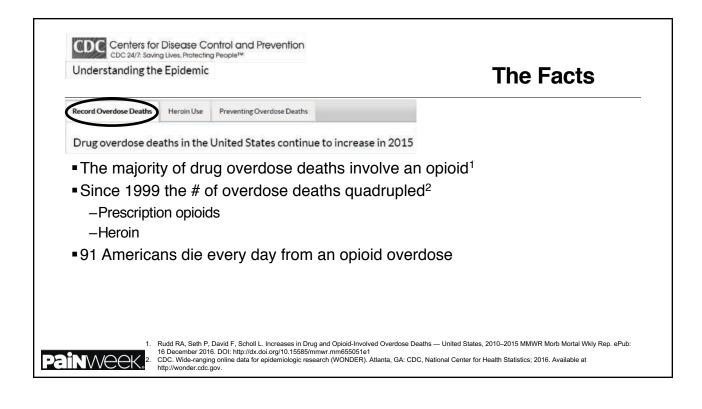
By JOHN INCOLD | ingold@denverpost.com | The Denver Post PUBLISHED: December 6, 2016 at 9:27 pm | UPDATED: December 7, 2016 at 10:31 am

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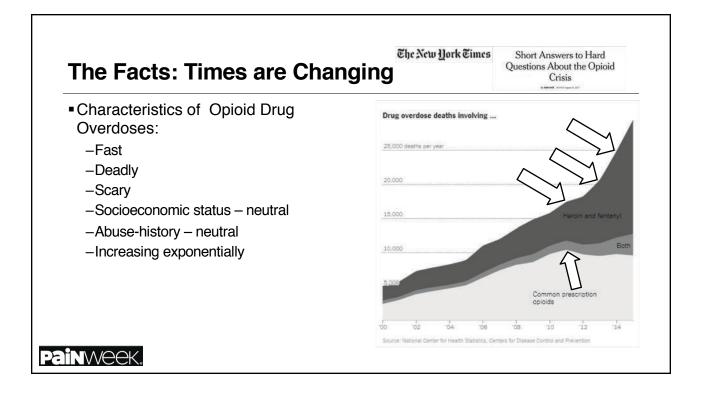
The Clinical Implications

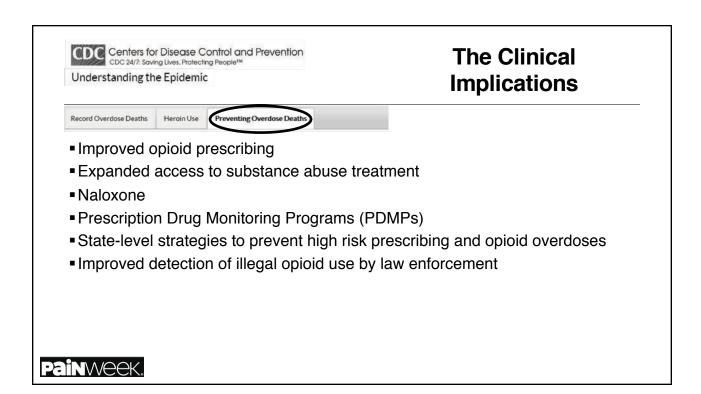
Now, across Colorado and the rest of the nation, these policies intended to address opioid abuse have unexpectedly harmed patients who depend on the drugs to treat chronic conditions, pain specialists and patient advocates say. The policies are supposed to offer guidance — helpful advice to doctors to be cautious in prescribing more than a certain amount of opioids to any one patient.

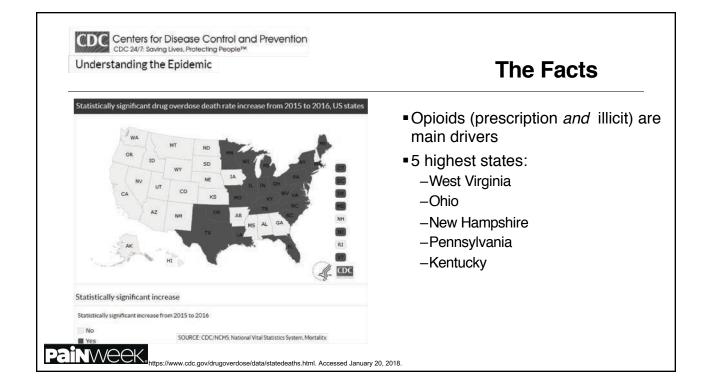
Officials at the Colorado Department of Regulatory Agencies are looking at revising the guidelines. The Colorado Consortium for Prescription Drug Abuse Prevention, a group of medical and drug experts, is also working on ideas to protect pain patients while cracking down on opioid abuse.



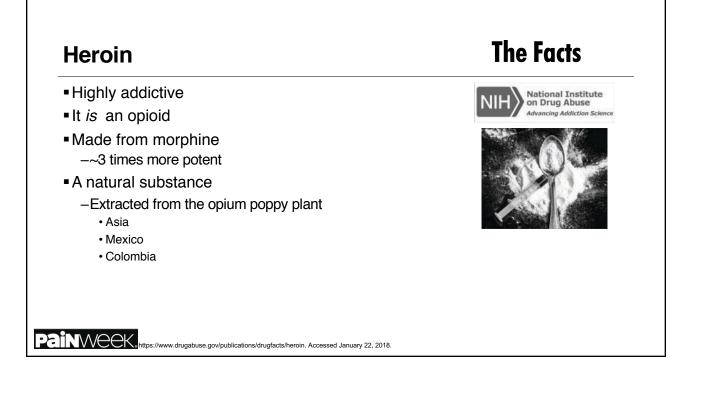
Understanding the Epidemic			The Facts	
Record Overdose Deaths	Heroin Use	Priventing Overdose Deaths		
Heroin use is trer	ndingup			
	· •	oast month/yea 18-25 year olds	r heroin use and addiction have all	
0		n users, 75% re	port abusing prescription opioids prior to	
using heroi				
0		ths more than t	ripled from 2010-2015	
Heroin-rela	ited dea st increa		ripled from 2010-2015 neroin-related deaths involving synthetic opioids -	



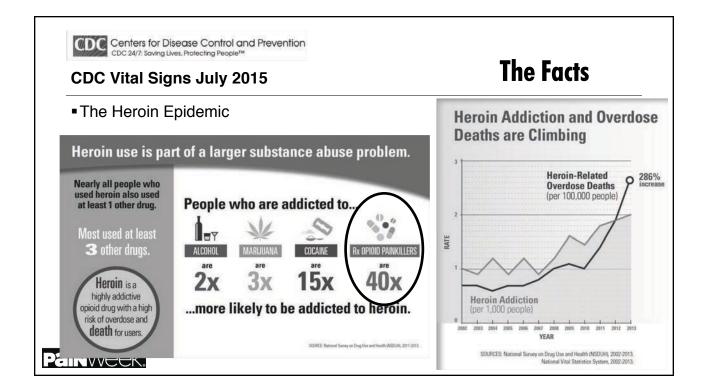


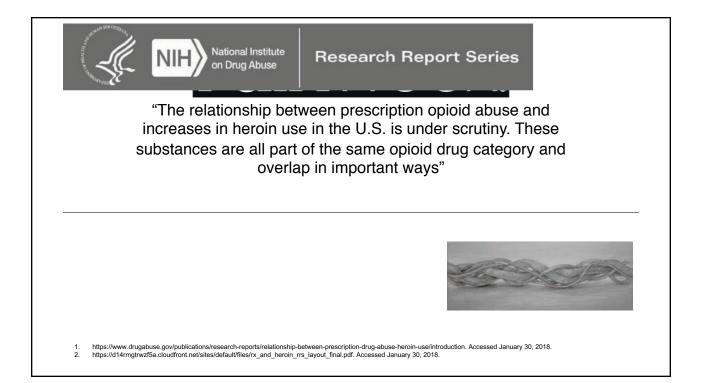


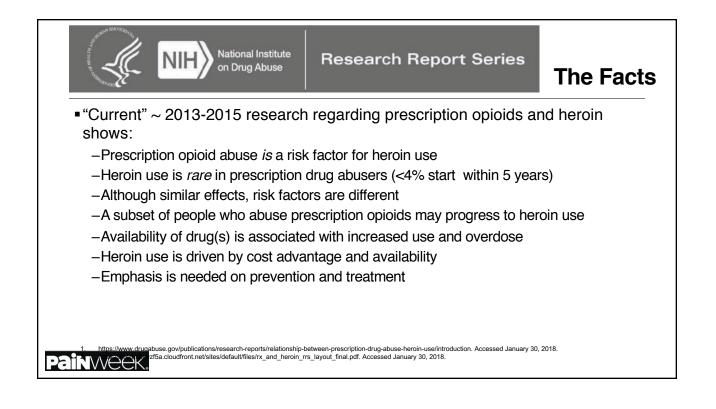


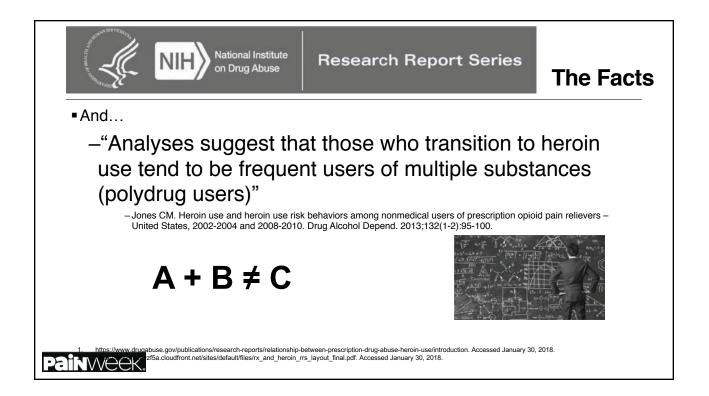


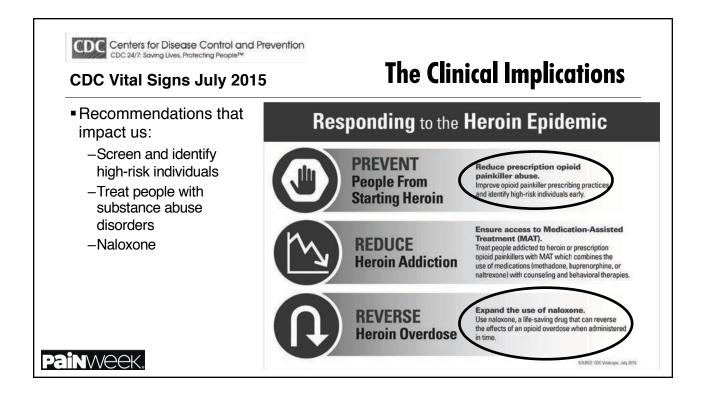
Understanding the Epidemic	The Facts			
Heroin use has been increasing ¹	Heroin Use H		ASED	mong
-Men	Most Demog			unong
		2002-2004*	2011-2013*	% CHANGE
-Women	SEX Male	2.4	3.6	50%
Most and groups	Female	0.8	1.6	100%
–Most age groups	AGE, YEARS		and a	
–All income levels	12-17 18-25	1.8 3.5	1.6 7.3	109%
	26 or older	1.2	1.9	58%
Past misuse/abuse of prescription opioids is the	RACE/ETHNICITY			
	Non-Hispanic white Other		3	114%
strongest risk factor for starting heroin ²	ANNUAL HOUSEHOLD I		1.000	
	Less than \$20,000	3.4	5.5	
	\$20,000-\$49,999		2.3	77%
	\$50,000 or more	NICOA OF	1.6	60%
	HEALTH INSURANCE CO None	4.2	6.7	60%
	Medicaid	4.3	4.7	
	Private or other	0.8	1.3	63%
	*Annual average rate of hero	ain una (nar 1 000	neenle in each (

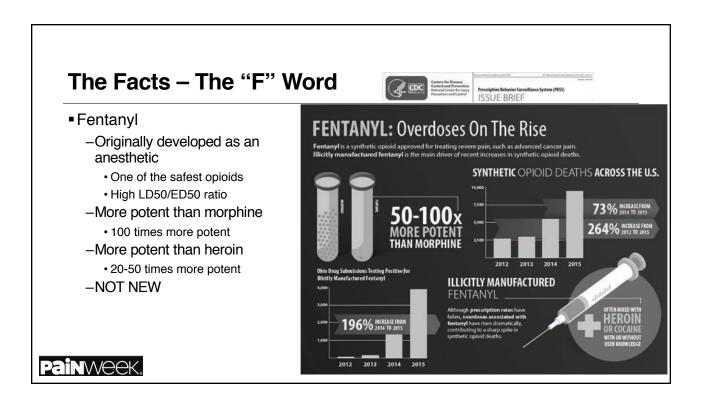












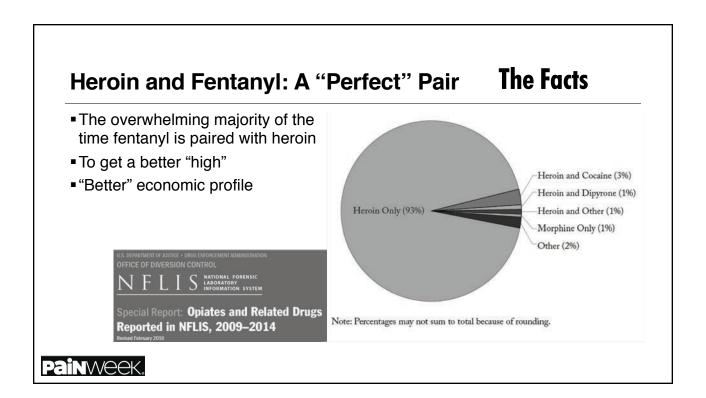
Case 1

42 year-old Hispanic male

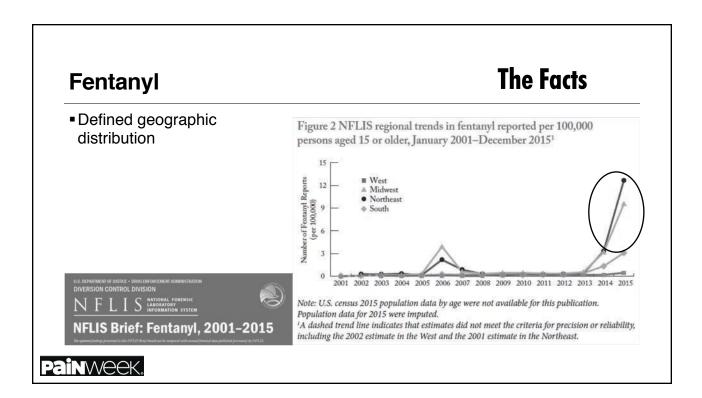
- -Addicted to heroin
- -Comes to the same street corner every day to buy heroin
 - First dose usually free
- -He's actually buying heroin laced with fentanyl
- -"It's a new epidemic" he says
- -"If you catch a bag of pure fentanyl, that Narcan ain't bringing you back"
- -"I just watched my friend die from fentanyl"

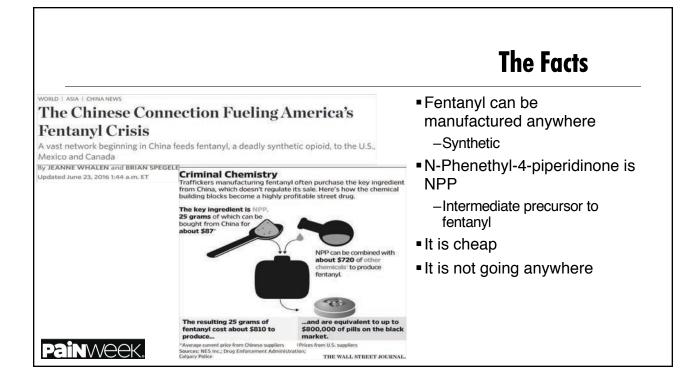


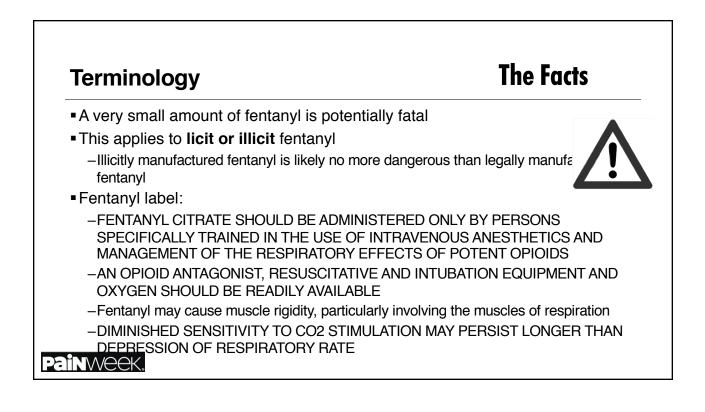


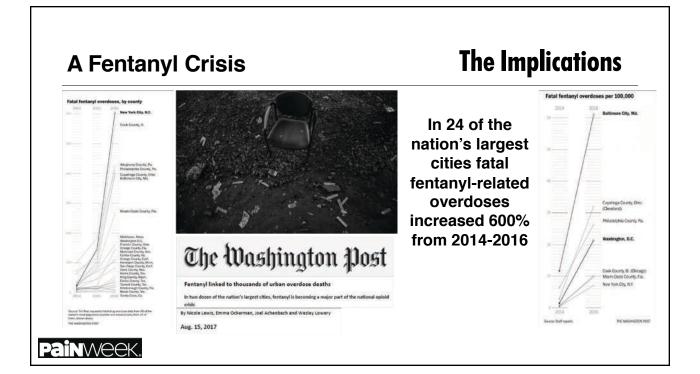


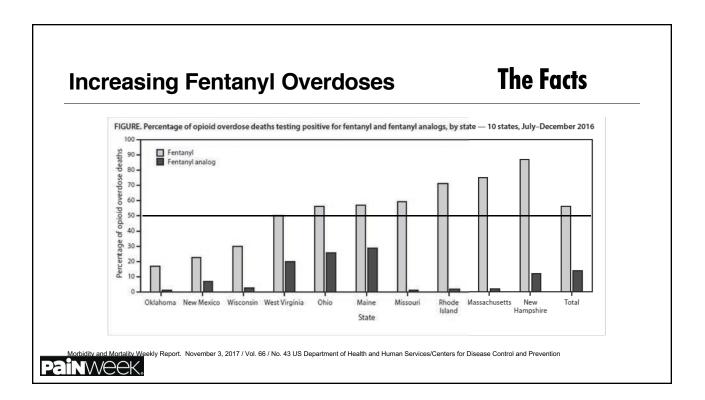
Fentanyl	The Facts		
 Drug seizures involving fentanyl are going up dramatically 	Drug seizures containi	ing fentanyl	
	Fentanyl reports		
	20.000		
	15.000		
	10,000		
U.S. DEPARTMENT OF JUSTICE - DRUG ENFORCEMENT ADMINISTRATION DIVERSION CONTROL DIVISION	5,000	A 2006 spike was traced to a single lab in Mexico	
NFLIS INFORMATION SYSTEM		the second se	
NFLIS Brief: Fentanyl, 2001–2015	101 102 103 104 Source: D.E.A. National Forensis	05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 c Laboratory Information System	

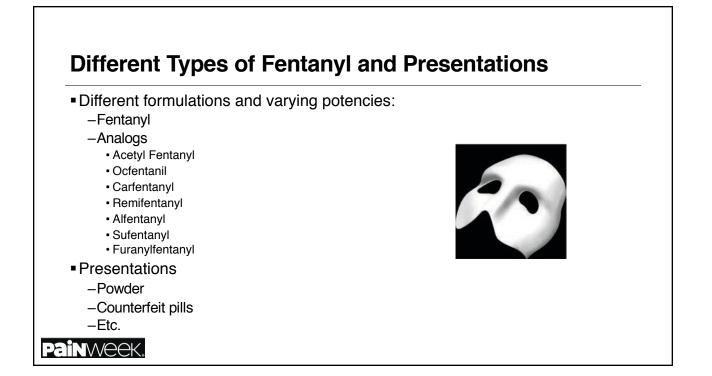














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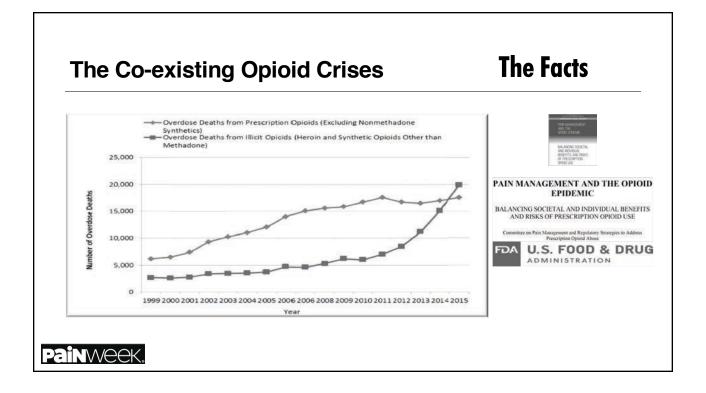
The Facts

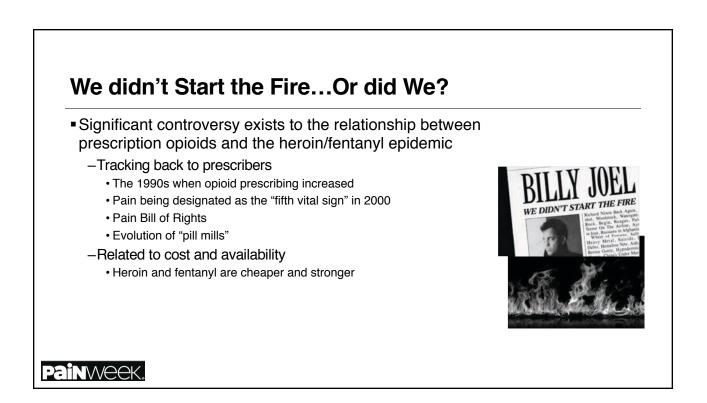
- Fentanyl in the wrong hands is deadly
- Potentially contributing significantly to overdose/fatal overdose risk
- Analogs not often tested for in routine toxicology testing
- Naloxone is a bridge to survival but not a final solution
 - -Re-narcotization from fentanyl is common
 - -CO₂ will persist
 - -Diminished hypoxic drive may persist

Painweek.

SUMMARY

PAIRWEEK



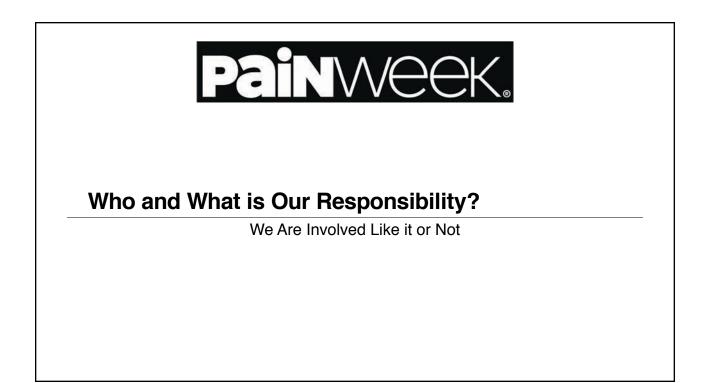


Case 2

- 26 year-old white female
 - -Has 2 children ages 4 & 7 who live with their godmother
 - -Became addicted to opioids after being prescribed oxycodone post C-Section
 - -Addiction to oxycodone transitioned to heroin
 - -Addiction to heroin transitioned to heroin/fentanyl
 - -"If there's no fentanyl in it, I don't want it at all"
 - -Tried 14-day rehab without success
 - "This is all I know anymore ... It's all I know "







UNODE

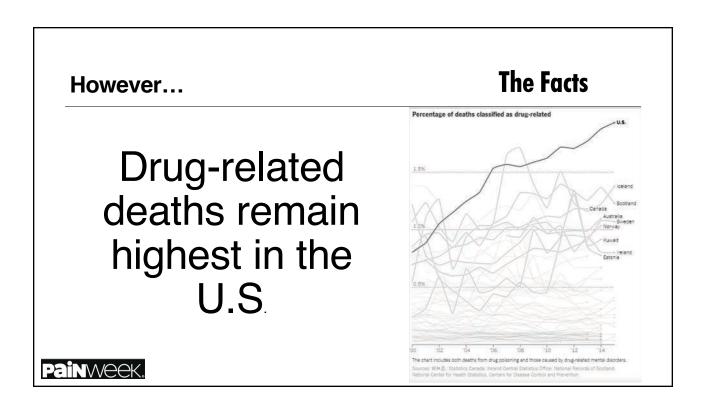
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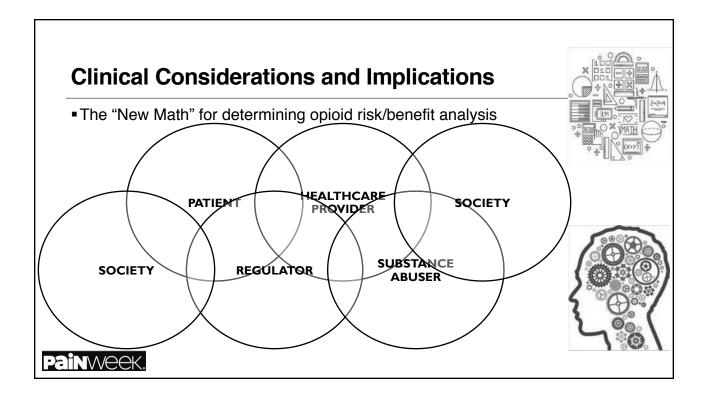
EXECUTIVE SUMMARY

CONCLUSIONS AND POLICY IMPLICATIONS

Does the United States Own The Problem??

- •We are not alone
- This is a global issue
- In 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





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
- Everyone is looking at us as an integral part of solving this "other" opioid crisis
- Everyone is looking to us to be a part of the solution





