

The Other	Opioid	Crisis: F	leroin a	and Fentai	nyl
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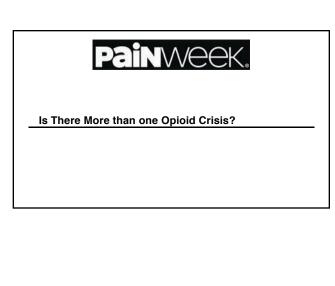
Kevin L. Zacharoff, MD, FACIP, FACPE, FAAP

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

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The Facts



## 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.
  - -~ 64,000 deaths nationwide in 2016
  - ↑ 21% from 2015
     More than 42,000 (66%) involved some type of opioid
  - \*\*\*\*Now there are questions about accuracy regarding CDC data and opioid analgesics\*\*\*\*



PainWeek, There is More Than One Opioid Crisis. To bette Jublished Jan. 17, 2018. https://livebirtyeight.c

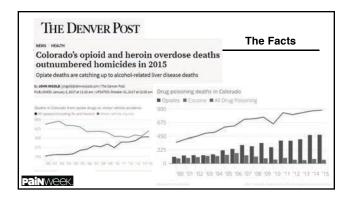
## The Facts

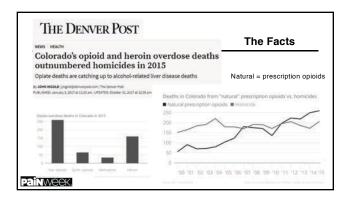
- Drug(s) Responsible May be Unknown

   Overdose is usually about RESPIRATORY
   DEPRESSION
- Sometimes causes are not reported
  - May depend on the state
     Trends can be difficult to identify
- ■This may lead to a lack of focus

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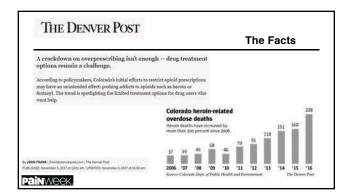
## The Facts: Kentucky as an Example The most common drugs found in Kentucky's overdose victims







## \*The Denver Post The Facts - "The state tracks opioid prescriptions, but doctors aren't required to check the database" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" - "The state tracks opioid prescriptions, but doctors aren't required to check the database" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" - "The state tracks opioid prescriptions, but database" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Program (PDMP) database before writing most opioid prescriptions" - "The vast majority of states require clinicians to check the Prescription Drug Monitoring Prescription opioid related to check the Prescription opioid rela







## **Important Societal Questions**

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## Bill of Rights for People with Chronic Pain

## Is the Current Climate Living up to Promises Made in the Past?

Does the chronic pain patient still have rights?

Is this a problem about chronic pain patients abusing prescription pain medications?

### The right to have your report of pain taken seriously and to be treated with dignity and expect by dectors, marses, phaemacists and other healthcare professionals. The right to have your main thereusely assured and

promptly treated.

The right to be informed by your doctor about what many

be causing your pain, possible treatments, and the benefits, risks and costs of each.

The right to participate actively in decisions about how

The right to have your pain re-assessed regularly and your treatment adjusted if your pain has not been eased.

The right to be referred to a pain specialist or other

The right to get clear and prompt answers to your

## THE DENVER POST

ANNE - SMALTH
Chronic pain patients say they are hurt by
Colorado's opioid prescription guidelines
Some Colorado doctors are refugire to prescribe opioids to chronic pain su

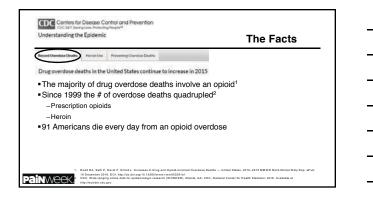


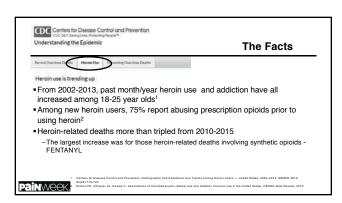
The Clinical Implications

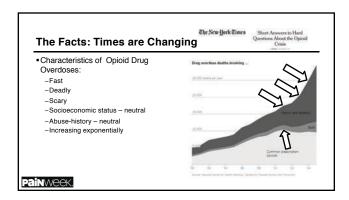
nation, these policies intended to address opioid abuse have unexpectedly harmed patients who depend on the drugs to treat chronic conditions, pain specialists and patient advocates say. The policies are supposed to offer guidance — helpful advice to dectors to be caustion in prescribing more than a 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 Abase Prevention, group of medical and drug experts, is also working on ideas to protect pain patient while cracking down on coloid abuse.

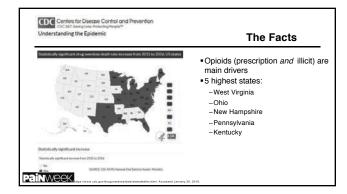
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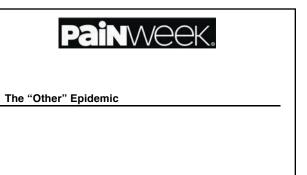




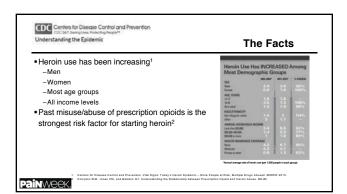


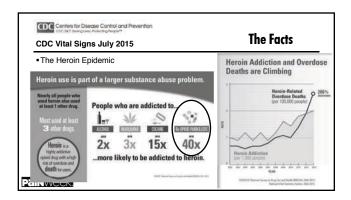
Confes for Disease Confloi and Prevention Confes for Disease Phenotographenology Understanding the Epidemic	The Clinical Implications
Record Overdose Deaths Heroin Use Preventing Overdose Deaths	
<ul> <li>Improved opioid prescribing</li> </ul>	
<ul> <li>Expanded access to substance abuse</li> </ul>	e treatment
■ Naloxone	
■ Prescription Drug Monitoring Program	is (PDMPs)
■ State-level strategies to prevent high r	risk prescribing and opioid overdoses
■ Improved detection of illegal opioid us	e by law enforcement
PREA (CO)	





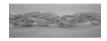
# Heroin The Facts Highly addictive It is an opioid Made from morphine ---3 times more potent A natural substance -Extracted from the opium poppy plant - Asia Mexico Colombia







"The relationship between prescription opioid abuse and increases in heroin use in the U.S. is under scrutiny. These substances are all part of the same opioid drug category and overlap in important ways"





Research Report Series

The Facts

- "Current" ~ 2013-2015 research regarding prescription opioids and heroin
- -Prescription opioid abuse is a risk factor for heroin use
- -Heroin use is rare in prescription drug abusers (<4% start within 5 years)
- -Although similar effects, risk factors are different
- -A subset of people who abuse prescription opioids may progress to heroin use
- -Availability of drug(s) is associated with increased use and overdose -Heroin use is driven by cost advantage and availability
- -Emphasis is needed on prevention and treatment

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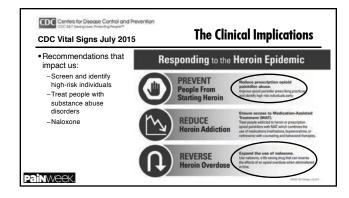


The Facts

-"Analyses suggest that those who transition to heroin use tend to be frequent users of multiple substances (polydrug users)"

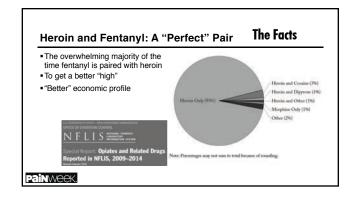
 $A + B \neq C$ 

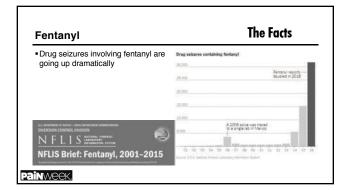


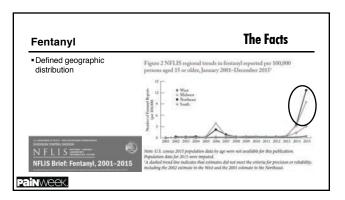


# The Facts – The "F" Word Fentanyl Originally developed as an anesthetic One of the safest opioids High LDSO/IEDSO ratio More potent than morphine 100 times more potent More potent than heroin 20-50 times more potent NOT NEW Painweek

## 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 fentany!"







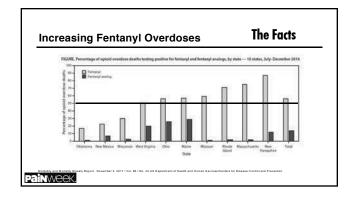
## The Facts Fentanyl can be manufactured anywhere The Chinese Connection Fueling America's Fentanyl Crisis -Synthetic N-Phenethyl-4-piperidinone is NPP Intermediate precursor to fentanyl ■It is cheap ■ It is not going anywhere Painweek

## 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 manufa fentanyl
- 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

## The Implications **A Fentanyl Crisis** In 24 of the nation's largest cities fatal fentanyl-related overdoses increased 600% from 2014-2016 The Washington Post



## **Different Types of Fentanyl and Presentations**

- - -Powder
    -Counterfeit pills
    -Etc.

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Carfentanyl	The Facts
Synthetic Large animal anesthetic 100 times more potent than fentanyl 10,000 times more potent than morphine Airborne/skin exposure often fatal –2012 Moscow Theater Hostage Crisis	The Washington Post  The Washington Post  The phant tranquilizer is the latest lethal addition to the heroin epidemie

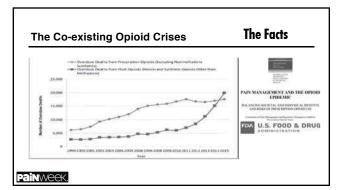
Γh		

- 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

  - -CO<sub>2</sub> will persist
    -Diminished hypoxic drive may persist

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**SUMMARY** 



We didn'	t Start th	e Fire	Or did	We?
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- Significant controversy exists to the relationship between prescription opioids and the heroin/fentanyl epidemic
  - -Tracking back to prescribers

  - The 1990s when opioid prescribing increased

    Pain being designated as the "fifth vital sign" in 2000

    Pain Bill of Rights

    Evolution of "pill mills"

  - -Related to cost and availability
  - Heroin and fentanyl are cheaper and stronger



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## 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"



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Who and What is Our Responsibility?

We Are Involved Like it or Not

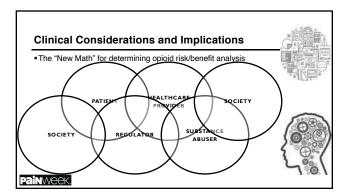
## Does the United States Own The Problem??

- We are not alone
- ■This is a global 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



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# Drug-related deaths remain highest in the U.S.



## **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

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## Final Thoughts

But... Let's not make patients "pay" for the other crisis







"Cure sometimes, treat often, comfort always."
— Hippocrates

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Questions?	-
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