The Institute for Public Policy and Social Research College of Social Science - Michigan State University

Understanding Socioeconomics of the Opioid Mortalitity Crisis -

"Narcomics"

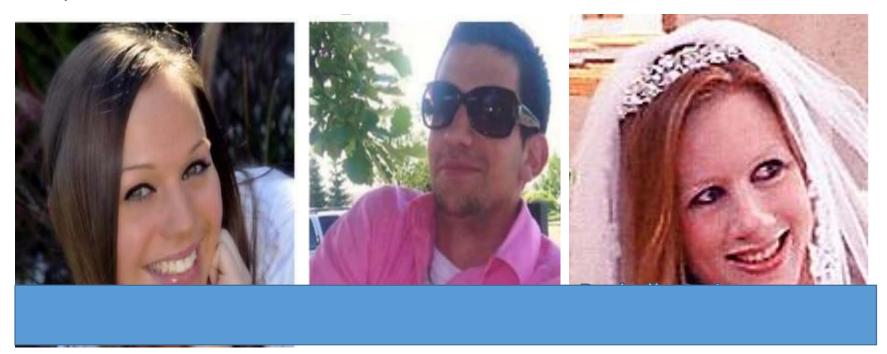
David Neff, DO

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MDHHS

In Michigan...

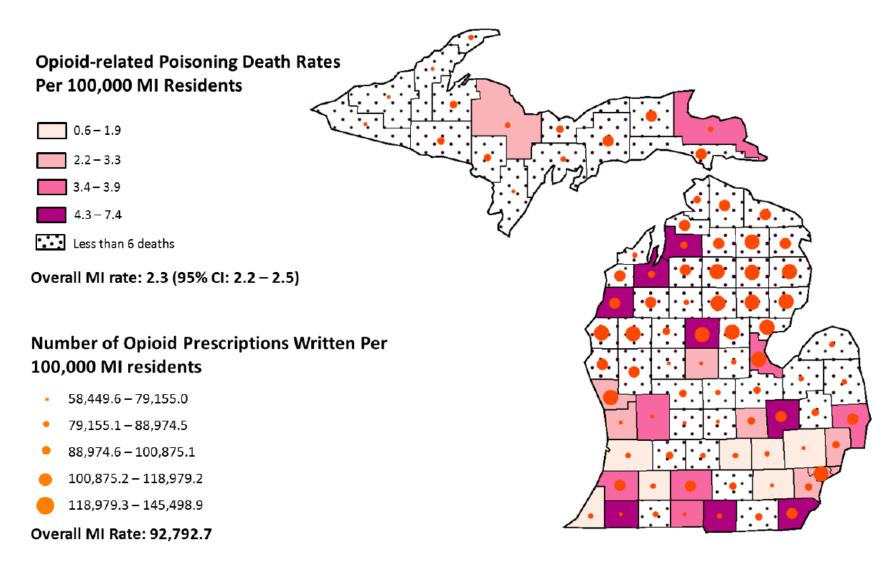
In 2014 -- 1,762 people died of drug overdose, up 13.2% from 2013
In 2015 -- 1,980 deaths occurred which is another 13.3% increase from 2014

People like...

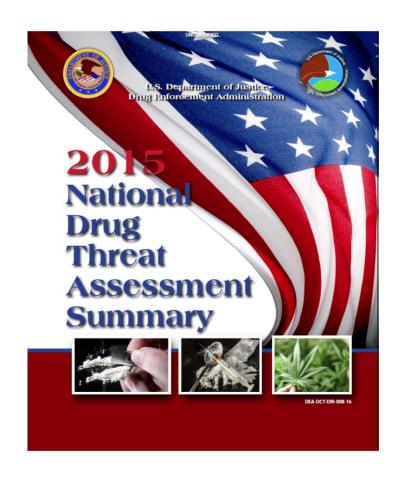


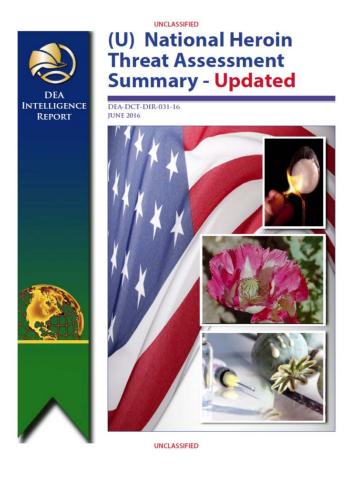
MMWR / January 1, 2016 / 64(50);1378-82 for 2014
https://www.cdc.gov/drugoverdose/data/statedeaths.html for 2015 (accessed 2/23/2017)

All Regions of the State Are Affected



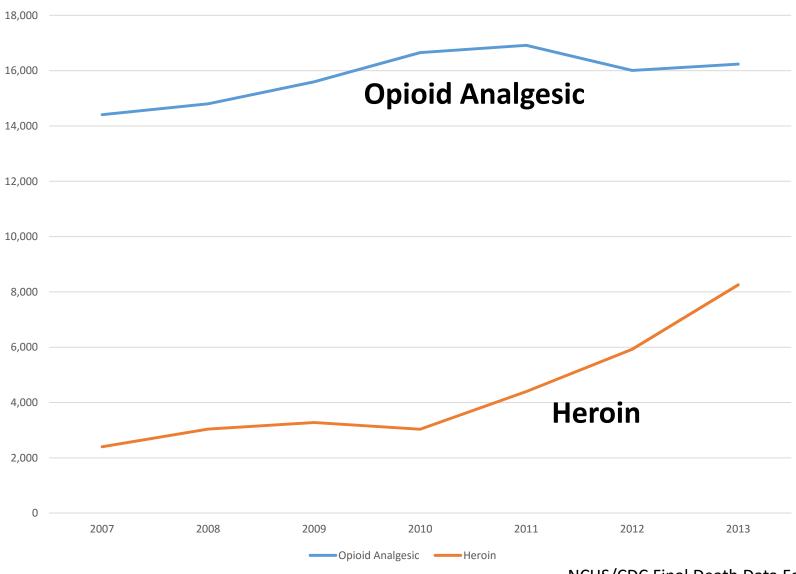
How Did This Happen? -- Pivotal Reports By the FDA and Homeland Security





2015 National Drug Threat Assessment 2016 National Heroin Threat Assessment Summary – Updated DEA-DCT-DIR-031-16

2/3 of All Deaths are Directly Related to Prescription Opioids



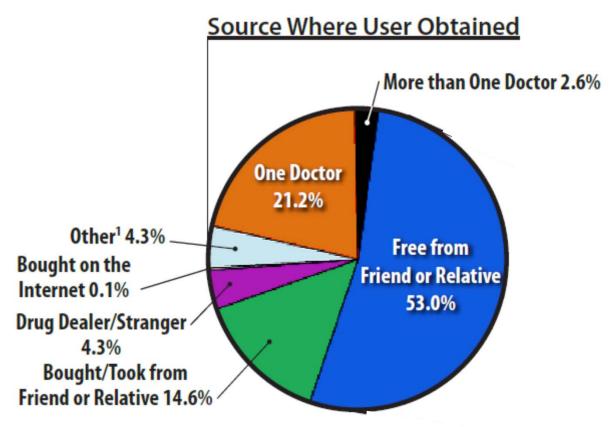
When the Prescription Becomes the Problem



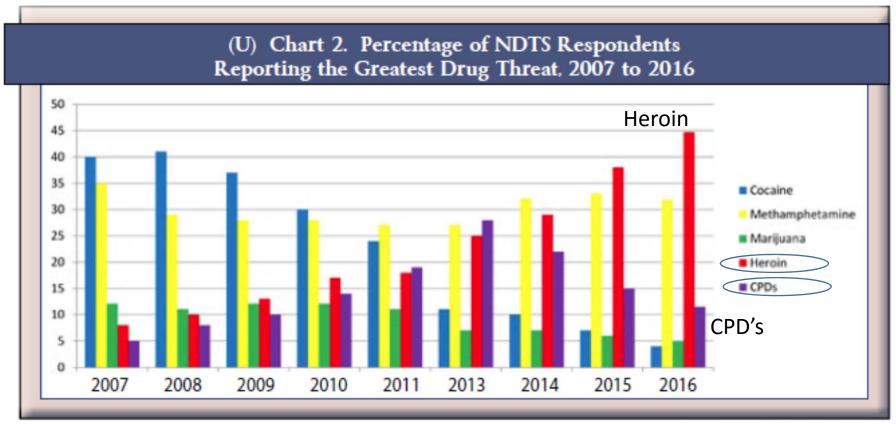
- Providers wrote nearly a quarter of a billion opioid prescriptions in 2013—with wide variation across states. This is enough for every American adult to have their own bottle of pills.¹
- Health care providers in the highest prescribing state, Alabama, wrote almost three times as many of these prescriptions per person as those in the lowest prescribing state, Hawaii.²
- Studies suggest that regional variation in use of prescription opioids cannot be explained by the underlying health status of the population.²
- The most common drugs involved in prescription opioid overdose deaths include:
 - Methadone
 - Oxycodone (such as OxyContin®)
 - Hydrocodone (such as Vicodin®)3
- To reverse this epidemic, we need to improve the way we treat pain. We must prevent abuse, addiction, and overdose before they start.

However, 3/4 of Prescription Opioids Were Obtained For Free, Bought or Stolen And Enter the Black Market Largely Out of Prescribers' Hands

Much of This Use Started for Recreational and Not Medicinal Purposes

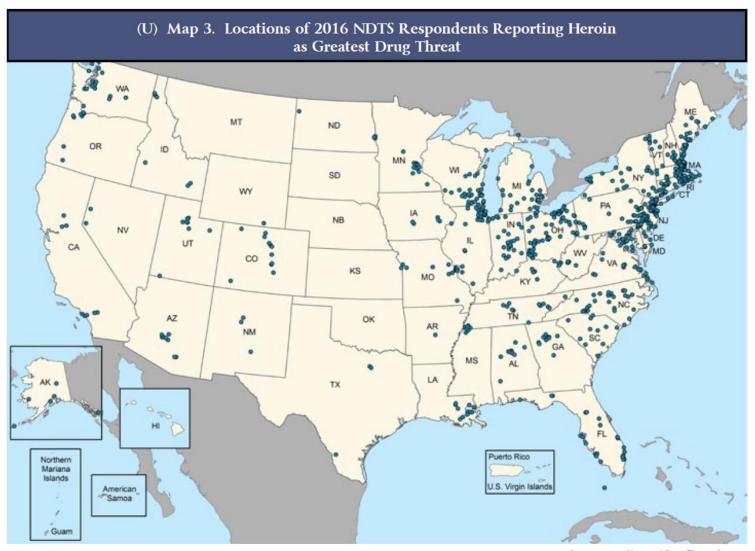


In 2015-16 – Heroin Became the Greatest National Threat and the Controlled Prescription Drug (CPD) Threat Diminished



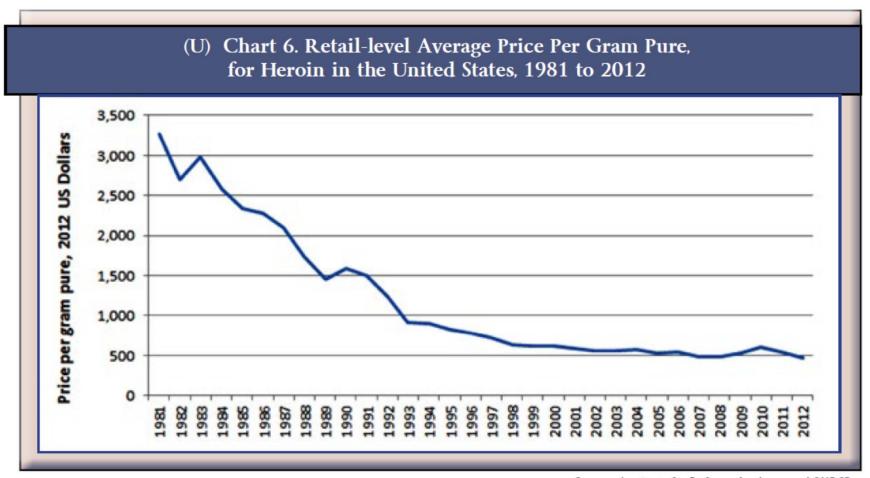
Source: National Drug Threat Survey

The National Heroin Threat is the Greatest in the Northeast Corridor and the Midwest



Source: 2016 National Drug Threat Survey

Heroin is Now Cheaper Than Illicitly Obtained Prescription Opioids



Source: Institute for Defense Analyses and ONDCP

2/3 of Great Lakes NDTS Respondents View Heroin as the Greatest Threat

It is now compounded by much more potent Fentanyl and Carfentanil being laced in Heroin

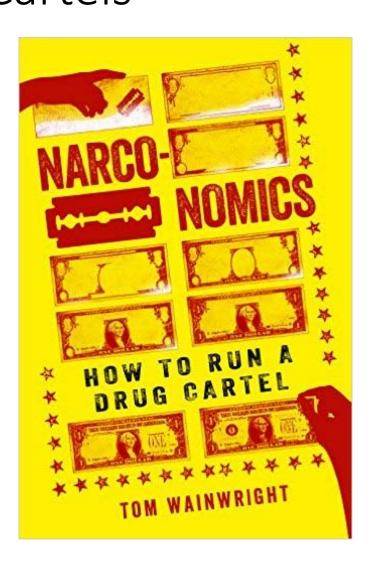


2016 National Heroin Threat Assessment Summary - Updated DEA-DCT-DIR-031-16

Most Heroin in the US Comes From 8 Mexican Drug Cartels



Large Corporate-like Success of Drug Cartels



- \$300 billion illegal drug business run predominately by 8 Mexican Cartels
- Adoption of the strategy and tactics used by large global corporations such as Walmart, McDonald's, and Coca-Cola.
- Highly sophisticated agricultural, manufacturing, sales, and distribution practices including creating brand value and finetuning customer service
- Leverages smart phone technologies and the dark internet



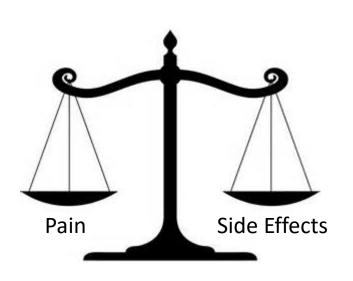
\$300B of Heroin Revenues are As High as the Largest Global Corporations

Ranking	Name	Industry	Revenue (USD billions)	Revenue growth	Headquarters
1	Walmart	Retail	\$482	0.7%	Bentonville, Arkansas
2	State Grid	Electric utility	\$330	2.9%	<u>Beijing</u>
3	China National Petroleum	Oil and gas	\$299	30.2%	Beijing
4	Sinopec Group	Oil and gas	\$294	34.1%	<u>Beijing</u>
5	Royal Dutch Shell	Oil and gas	\$272	36.9%	The Hague
6	Exxon Mobil	Oil and gas	\$246	35.6%	Irving, Texas
7	<u>Volkswagen</u>	<u>Automotive</u>	\$237	11.9%	Wolfsburg
8	<u>Toyota</u>	Automotive	\$237	4.5%	Toyota, Aichi
9	<u>Apple</u>	<u>Consumer</u> <u>electronics</u>	\$234	27.9%	<u>Cupertino</u> , <u>California</u>
10	<u>BP</u>	Oil and gas	\$223	37%	<u>London</u>

How Did This Happen? Other Root Causes

- The emphasis on Pain as the 5th vital sign from the Joint Commission in 15-20 years ago as an unanticipated consequence, including eliminating dose ceilings for opioids
 - Increased opioid prescriptions to address perceived undertreatment of chronic pain
 - Laws or regulations passed in >20 states to allow use of opioids for chronic pain
 - the emergence of long acting opioids and pharmaceutical marketing practices
 - Studies describing benefits of long-term opioid therapy for chronic pain, with low rates of abuse, addiction, or other serious AE's -
 - Most prescribed low doses (<20 mg MED/day)
- Patient satisfaction surveys -- the increased focus on patient- centered and customer centric health strategies in a clinical scenario where boundaries of behavior should be well-defined and appropriately managed
- The current health care system is not currently well designed to take pain and addiction treatment programs to scale statewide
- There has been traditional lack of financial support to address the crisis in a cohesive large scale manner

Primary Care Physicians Are the First and Last Line to Effectively Control Pain and Minimize Side Effects of Treatment

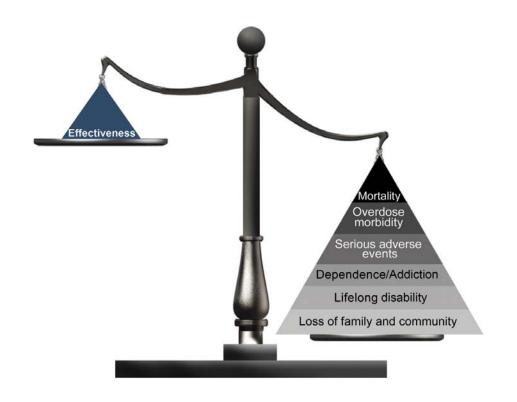


Challenges

- Lack of common understanding the neurobiological basis of addiction – it's not a matter of strong will or self-discipline
- Often the last one's "holding the stick" when returning from specialty clinics
- Poor stigmata of the addicted patient in the waiting room
- The PCP's plate is already full
 - care for 50-100 different clinical problems with increased demands to focus on quality
 - Increase documentation, but still control cost
 - very little available time
 - staffing and resource limitations
 - inadequate pain therapy options
 - inadequate funding

Additional Challenges

- Traditional lack of alternate evidence-based solutions
- Increasing need for Centers of Excellence for Complex Pain and Addiction Management, ie, Project Echo in Vermont, New Mexico & the VA



With all being said...
it is no longer possible to simply continue previous practices
the associated risks of opioid diversion, overdose, and addiction demand change (now)

From the National Institute on Drug Abuse, National Institutes of Health (NIDA), Bethesda, MD and the Treatment Research Institute, Philadelphia

N Engl J Med 2016;374:1253-63. DOI: 10.1056/NEJMra1507771

The MOA Strategy (2015-17)

Developing the Strategic Plan at the Health Care Provider, the Health System Level and with Law Enforcement in the Community



The MOA 5 + 2 Strategy (2015-17)

Goal - reduce opioid-related deaths and morbidity, while we treat patients with pain and/or addiction with compassion and expertise.

Objectives

- Decrease preventable deaths related to opioid and other drug-related overdose yet continue to treat pain compassionately
- Improve continuity of care for patients in pain or with opioid use disorder
- Improve expertise of health care professionals in managing the acute and chronic non-cancer pain (CNCP)
- 4. Prevent opioid dependence where it is possible
- 5. Effectively manage opioid dependence when it occurs
- 6. Help eliminate diversion of controlled prescriptions and illicit drug trafficking

Two Pronged Strategy – Providers and Health System

Providers

- Providers take the lead to control what they can through education, advocacy and practice improvement
- Professional societies Can Assist – DO, MD, DDS, PharmD, NP, and PA

Health System

- The newly designated
 Michigan Prescription
 Drug and Opioid Abuse
 Commission
- Health System and Law Enforcement work to improve the system dynamics statewide – SOM Government, Hospitals, Health Plans, Law Enforcement, Communities

"5" Strategic Pillars

- First Things First Prevent Death With Naloxone
- Stabilize Addiction with Medication-Assisted Treatment (MAT)
- 3 Establish Long-term Person-Centered Treatment Goals for Successful Recovery
- Change Opioid Prescribing Habits
- Shrink the Supply and Demand of Illicit Drugs

"2" Other Pillars

- Accelerate Health Systems Research for Pain Management and Addiction to Facilitate Education, Improve Quality, and Manage Cost
- Leverage Health Information Technology (HIT)
 Techniques
 - MAPS
 - Disease Management Software for Pain and Addiction Within Electronic Medical Records and Other Clinical Databases, Including Patient Alerts and Population Level Dashboards

All Things Considered

- This is a multifaceted and complex issue and all stakeholders statewide must work expeditiously in a timely, collegial and professional manner
- The Health System, starting with the prescriber, must change prescribing habits to shrink the non-medicinal demand for opioids in the first place and shrink the supply of opioids in the medicine cabinet that leads to black market supply
- Law Enforcement (with the assistance of the Health System)
 must shrink the supply and demand for illicit distribution of
 prescription opioids and heroin (including that laced with
 fentanyl and carfentanyl)
- It must be kept in mind, however, this problem is not altogether the prescriber's burden alone and strategy should be targeted at the larger problem at hand

Conclusion

- The Opioid Mortality Epidemic can be stemmed but it will require a focused systematic large scale effort among all stakeholders within the MI Health System and Law Enforcement
- Most of all it does take a village all villages here in Michigan