

A New Frontier: Prescription Drug Abuse Beyond Opioids



A New Frontier: Prescription Drug Abuse Beyond Opioids

Richard C. Dart, Executive Director RADARS System

RADARS System 14th Annual Scientific Meeting

Registrants n=235

Government	82
Academic	57
Industry/Pharma	36
– Other	60

















RADARS System Scientific Advisory Board

Principal Investigators

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Substance Abuse Experts

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University of Pennsylvania



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UNC in Chapel Hill Rocky Mountain Poison & Drug Safety, Denver Health



Law Enforcement

John Burke

Pharmaceutical Diversion Education, Inc.; International Health Facility Diversion Association

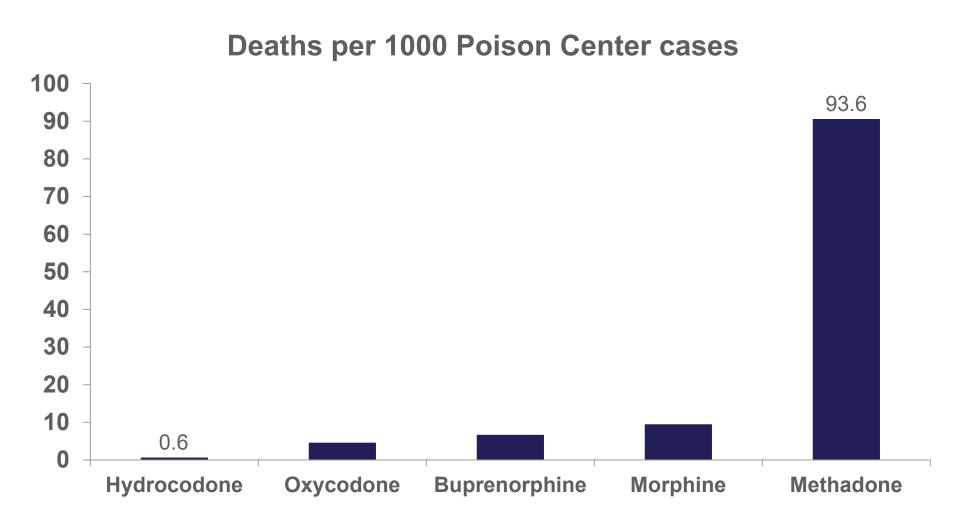




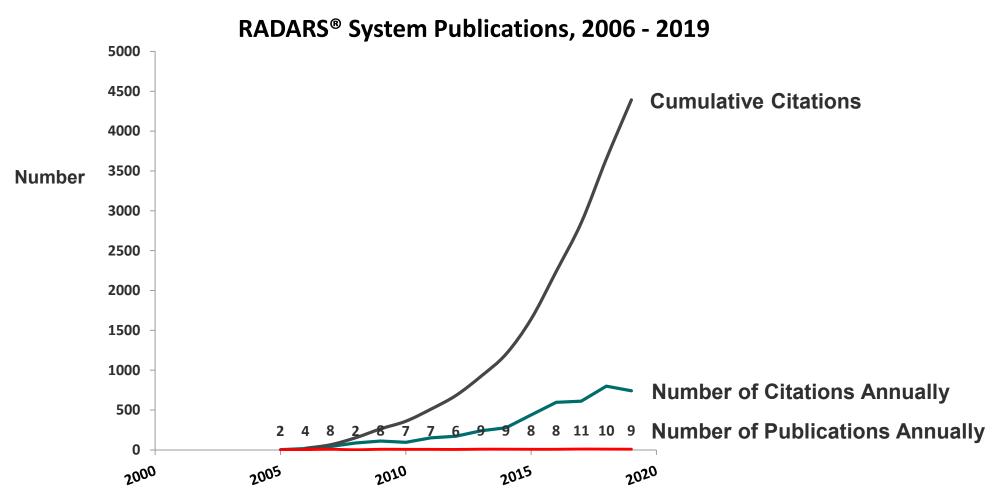
NEWS FROM RADARS SYSTEM



Latest RADARS System Article: The Impact of the Prescription Opioid Epidemic on Young Children

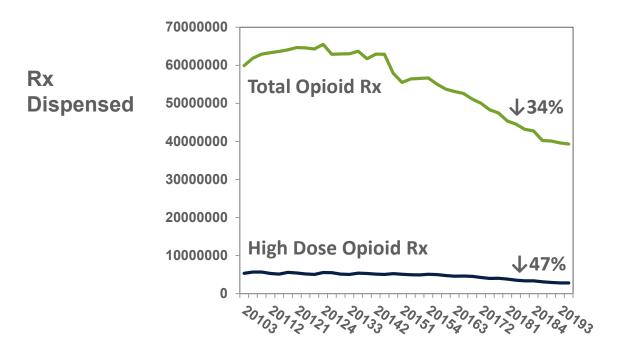


RADARS System – 108 Publications in Scientific Literature



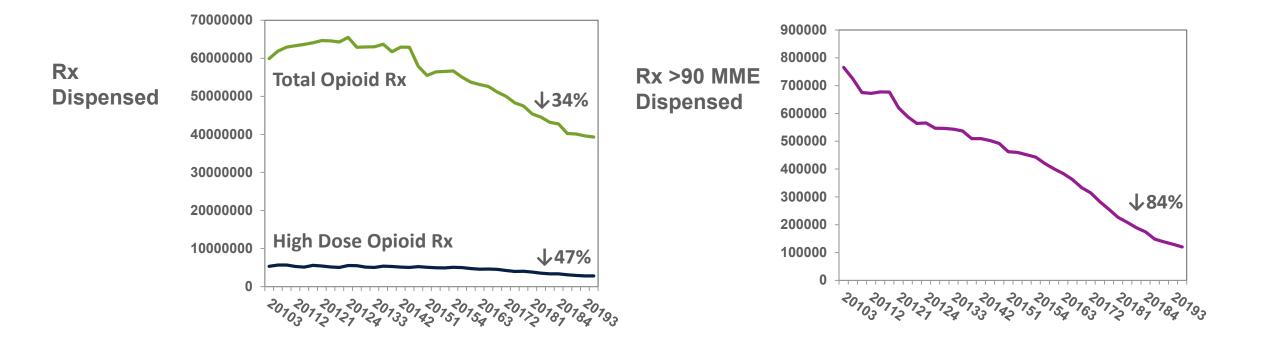


Trends in Annual Opioid Prescribing Rates



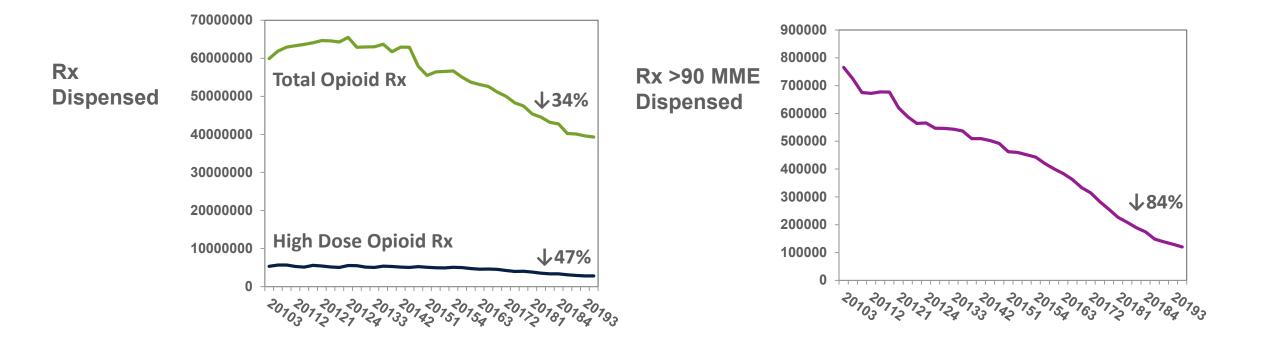


Trends in Annual Opioid Prescribing Rates



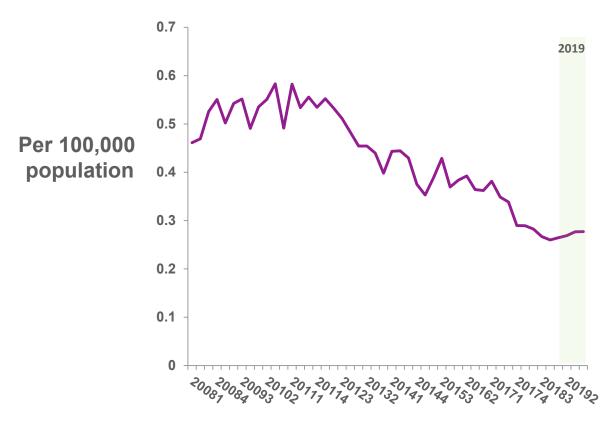


Trends in Annual Opioid Prescribing Rates





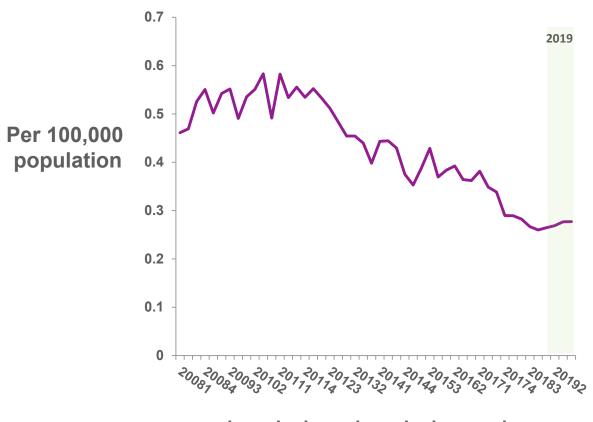
Poison Center Program Intentional Abuse, 2006 - 2019



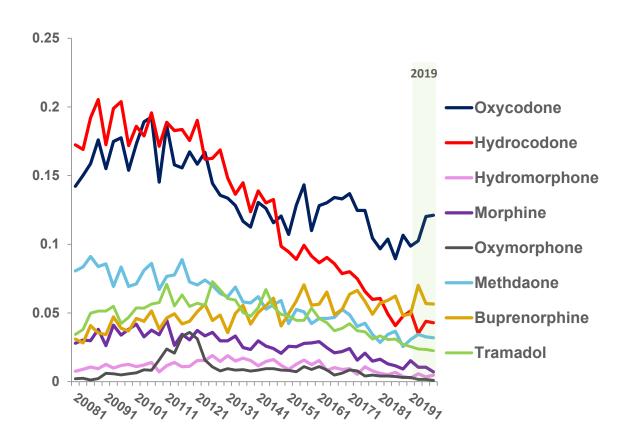
oxycodone, hydrocodone, hydromorphone, morphine, tramadol



Poison Center Program Intentional Abuse, 2006 - 2019



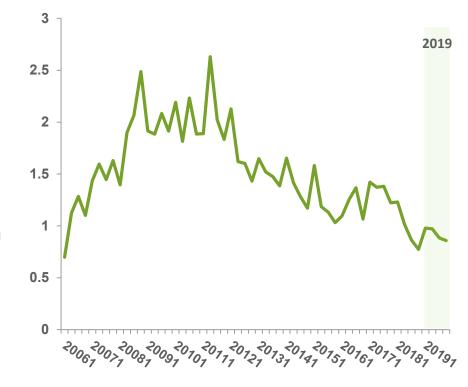
oxycodone, hydrocodone, hydromorphone, morphine, tramadol





Drug Diversion Program 2006 - 2019

Invest.
Opened
Per
100,000
population

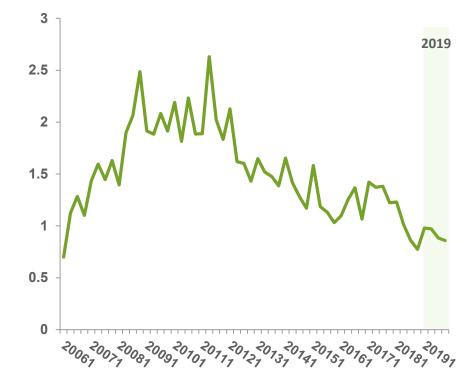


oxycodone, hydrocodone, hydromorphone, fentanyl, morphine, tramadol

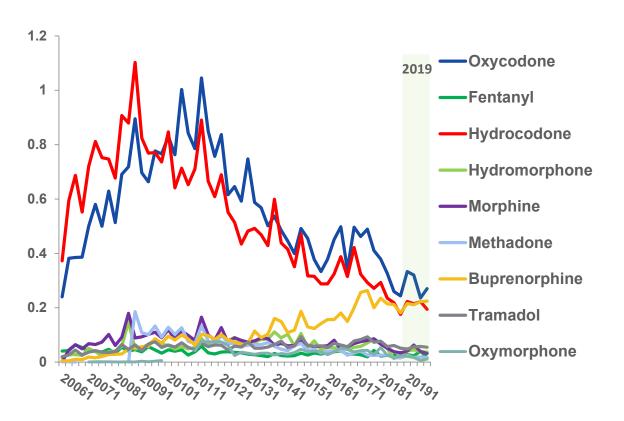


Drug Diversion Program 2006 - 2019





oxycodone, hydrocodone, hydromorphone, fentanyl, morphine, tramadol





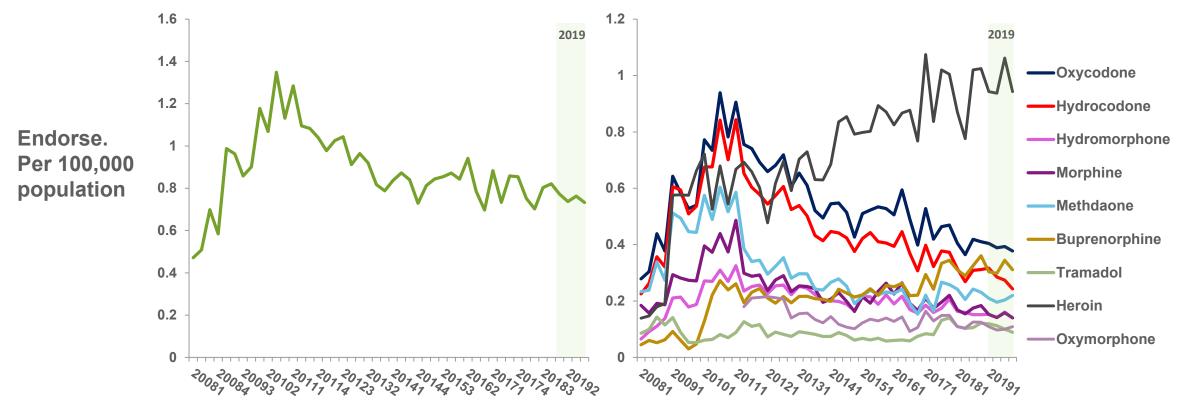
Treatment Center Programs Combined 2008 - 2019

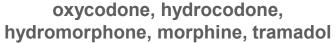
1.6 2019 1.4 1.2 Endorse. Per 100,000 population 8.0 0.6 0.4 0.2

oxycodone, hydrocodone, hydromorphone, morphine, tramadol



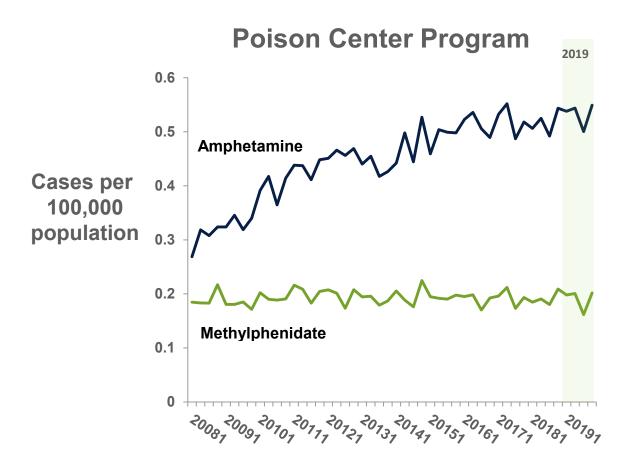
Treatment Center Programs Combined 2008 - 2019

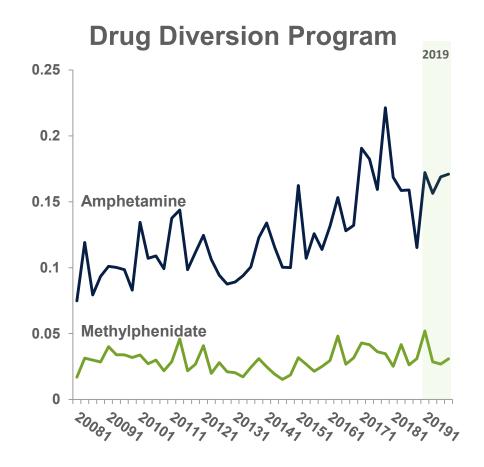






RADARS System Prescription Stimulant Rates, 2008 - 2019







The Opioid Epidemic

Synthetic opioids other than methadone population 6 per Deaths pe Natural and semisythetic opioids² Heroin³ Methadone⁴ 1999 2017 2001 2003 2005 2007 2009 2013 2015 2011 2018

Figure 3. Age-adjusted drug overdose death rates involving opioids, by type of opioid: United States, 1999–2018



¹Significant increasing trend from 1999 through 2006 and 2013 through 2018, with different rates of change over time, p < 0.05.

²Significant increasing trend from 1999 through 2018, with different rates of change over time, p < 0.05.

³Significant increasing trend from 2005 through 2015, with different rates of change over time, p < 0.05.

Drug Exposure Nicotine - Alcohol - Cannabis - Etc.

Risk Factors

Family Dysfunction Emotional Abuse Isolation **Risk Factors**

Physical Abuse Trauma Genetics

Polysubstance Abuse

Drug Exposure Nicotine - Alcohol – Cannabis – Etc.

Risk Factors

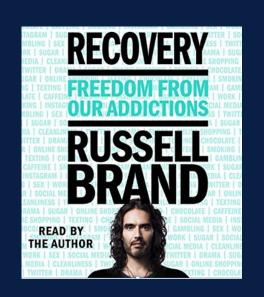
Family Dysfunction Emotional Abuse Isolation **Risk Factors**

Physical Abuse Trauma Genetics

Polysubstance Abuse

Drugs are not my problem.
Reality is my problem.
Drugs are my solution.

Russell Brand



Drug Exposure Nicotine - Alcohol – Cannabis – Etc.

Risk Factors
Family Dysfunction
Emotional Abuse
Isolation

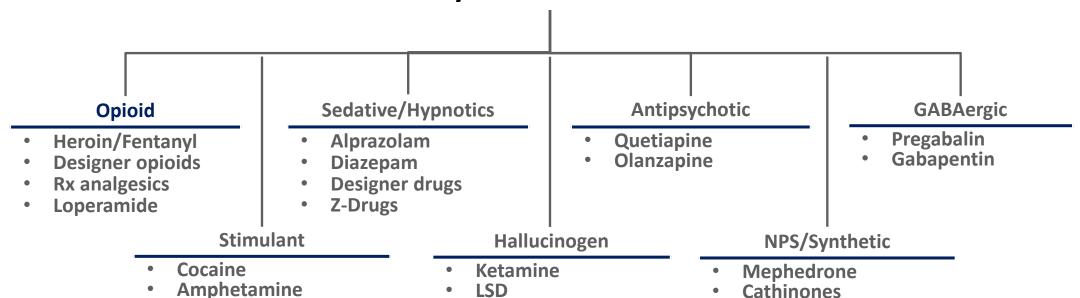
Methylphenidate

Designer drugs

Risk Factors
Physical Abuse
Trauma
Genetics

Synth Cann'oids

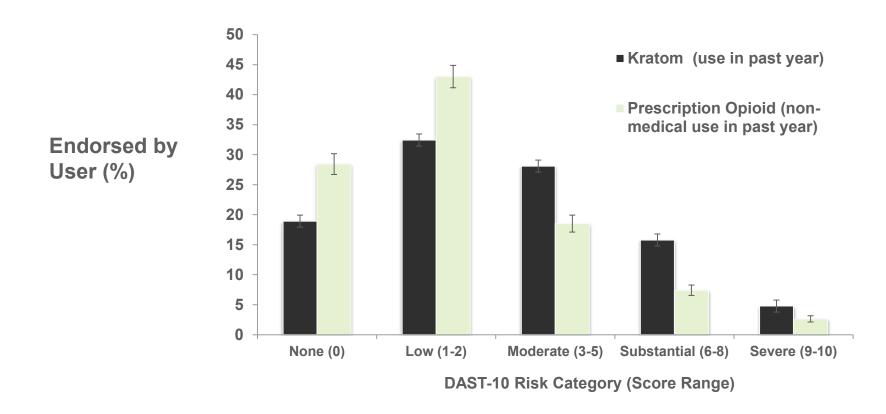
Polysubstance Abuse



Psilocybin

3 Million Adults Have Used Kratom, NMURx Program, 2018-2019

Estimated prevalence of lifetime Kratom use is 1.3% = 3,353,624 adults

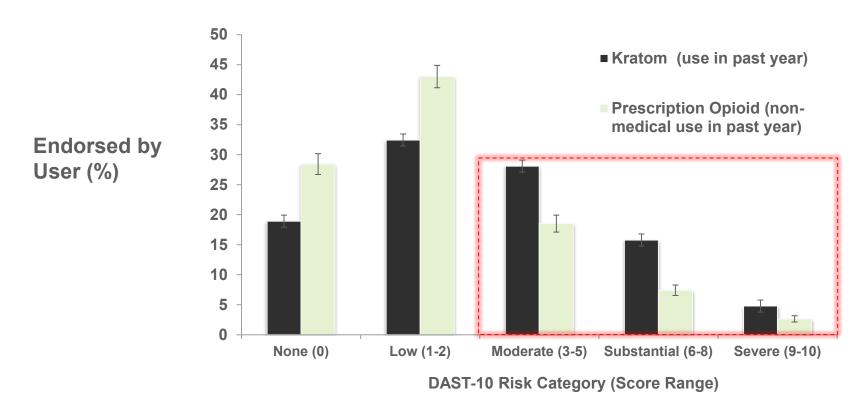




3 Million Adults Have Used Kratom, NMURx Program, 2018-2019

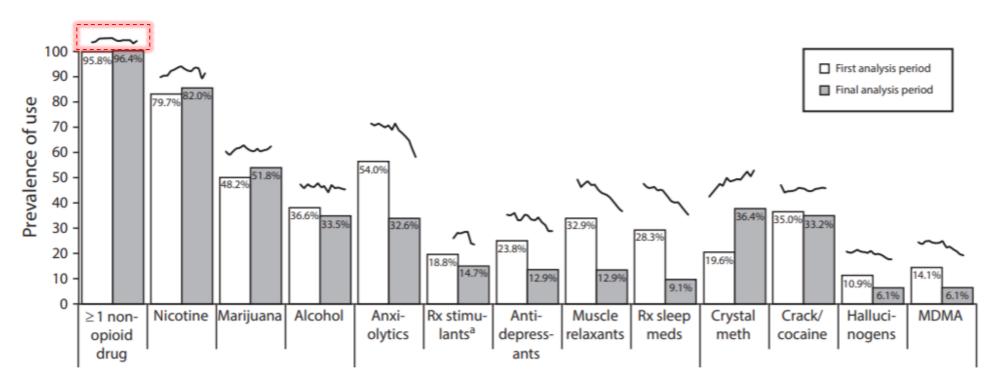
Estimated prevalence of lifetime Kratom use is 1.3% = 3,353,624 adults

Kratom Abuse Profile Worse Than Prescription Opioids





Prevalence Rate of Past Month use of Non-opioid Drugs Survey of Key Informant Patients (SKIP) Program, 2011-2018

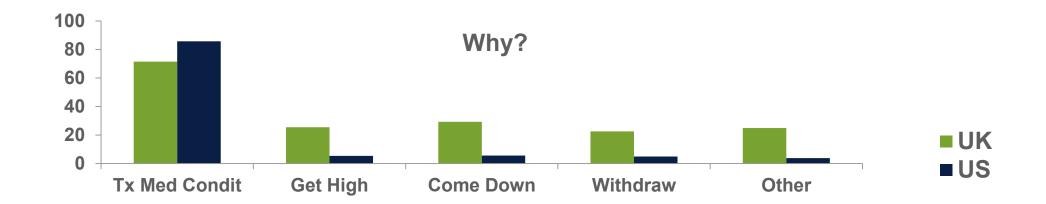


Note. q = quarter; Rx = prescription. Trend lines indicate the prevalence rates across the entire study period. ^aData first made available in 2015q1,2.

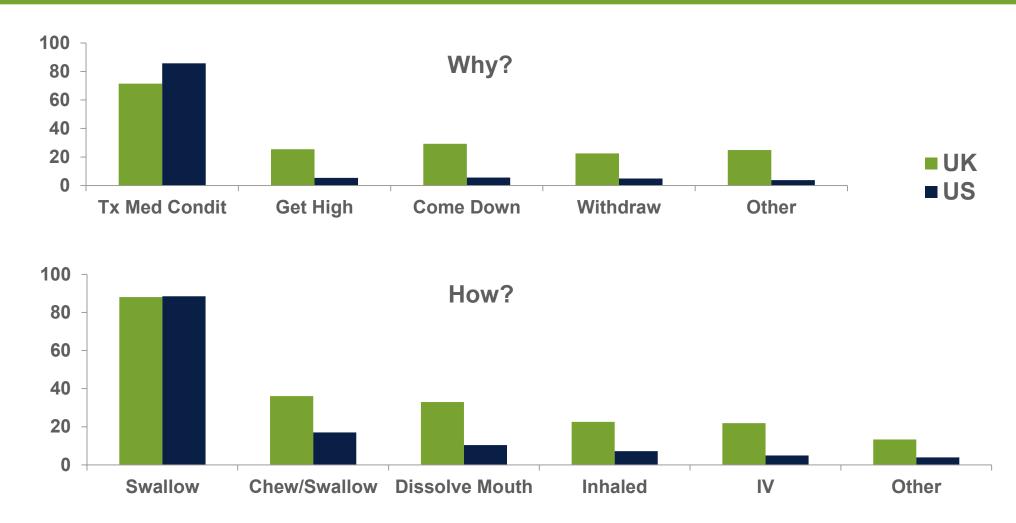
FIGURE 2—The Prevalence Rates of Past-Month Use of Nonopioid Drugs Among the Survey of Key Informants' Patients Sample in the First Analysis Period (Second Half of 2011) and the Final Analysis Period (First Half of 2018): United States



Nonmedical Use of Loperamide (Immodium) in UK and US, NMURx Program, 2017

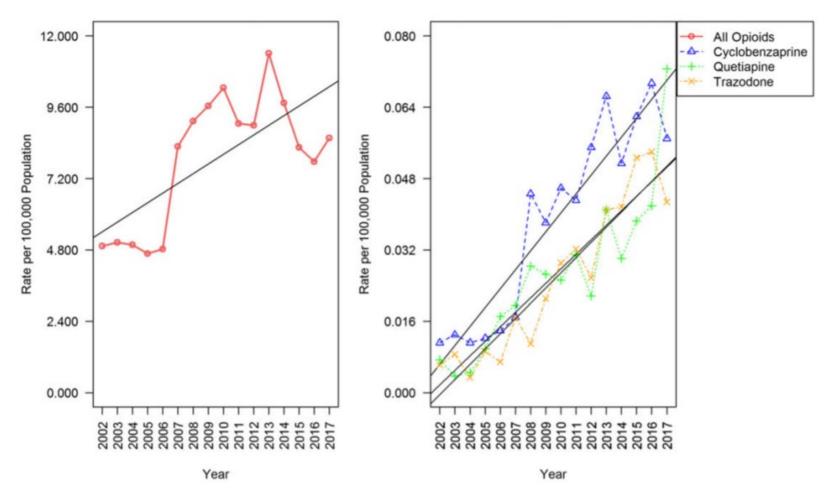


Nonmedical Use of Loperamide (Immodium) in UK and US, NMURx Program, 2017



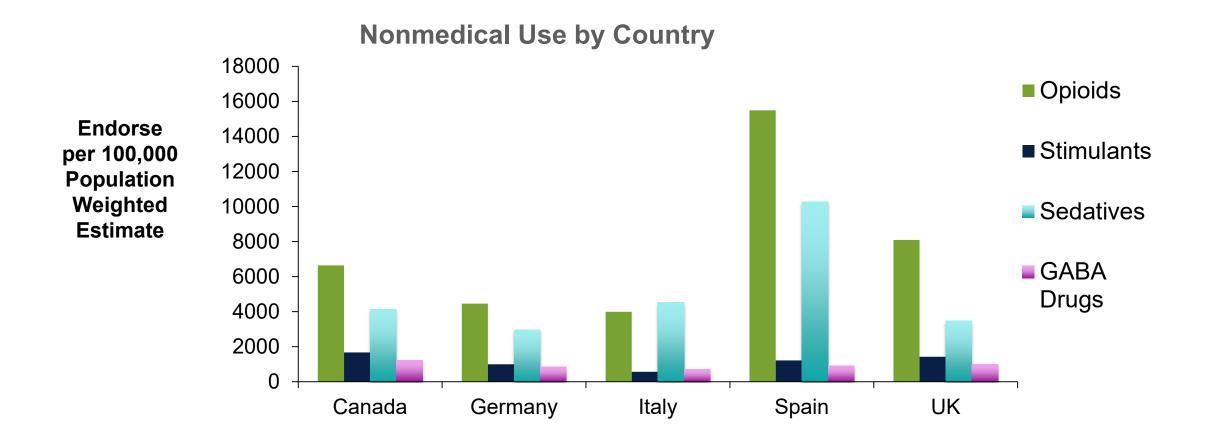


Increasing Diversion of Nonscheduled Psychoactive Prescription Medications in the United States, 2002 to 2017





Global Mosaic of Nonmedical Use: 10,000 foot view NMURx Program, 2018 Prescription Opioids





Summary

- Worldwide pandemic of substance abuse
- Prescription and non-prescription drugs that are often used in an interchangeable manner
 - Cost
 - Availability
- Mortality is rising
- Attempts at reducing supply have failed
- How do we reduce demand?



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Denver Health and Hospital Authority

President, Canadian Consumer Product and Pharmaceutical Safety Inc.

Vital Statistics Mortality Data

Margaret Warner, PhD

Senior Epidemiologist, National Center for Health Statistics, Centers for Disease Control and Prevention



One Drug? Two Drugs? Polydrug Mortality Is More Common Than We Think Joshua C. Black, PhD

Associate Research Scientist, RADARS® System, Rocky Mountain Poison & Drug Safety, Denver Health and Hospital Authority

Key Priorities for FDA's Controlled Substance Program Marta Sokolowska, PhD

Associate Director for Controlled Substances, Office of the Center Director, Center for Drug Evaluation & Research, Food & Drug Administration



Pharmacoepidemiologic Research on Drugs of Abuse

Judy A. Staffa, PhD, RPh

Associate Director for Public Health Initiatives, Office of Surveillance & Epidemiology, Center for Drug Evaluation & Research, Food & Drug Administration

How Low Can You Go: Solving the Challenge of Low Endorsements in the General Population

Joshua C. Black, PhD

Associate Research Scientist, RADARS® System, Rocky Mountain Poison & Drug Safety, Denver Health and Hospital Authority

Real World Evidence, Real World Solutions

John Schwarz, PhD

Director of Biostatistics, RADARS® System, Rocky Mountain Poison & Drug Safety, Denver Health and Hospital Authority

Nabarun Dasgupta, MPH, PhD

Core Faculty, University of North Carolina in Chapel Hill Consultant – RADARS® System

Panel Discussion and Summary



End

