

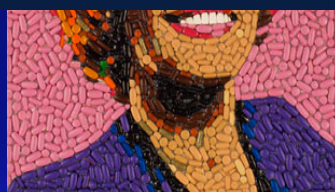
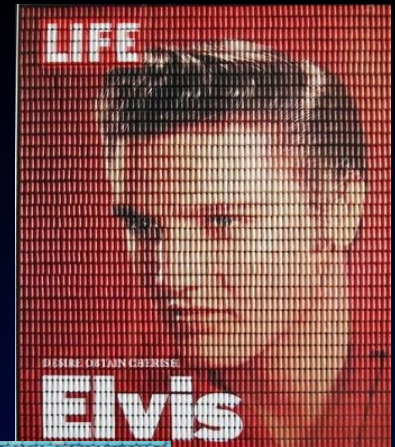
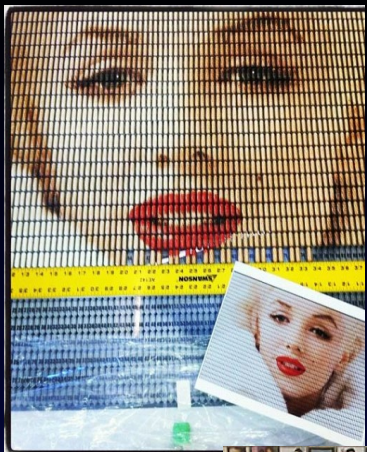
Data for the Opioid Crisis

Richard Dart, MD, PhD
Director, Rocky Mountain Poison and Drug Center
Professor, University of Colorado School of Medicine



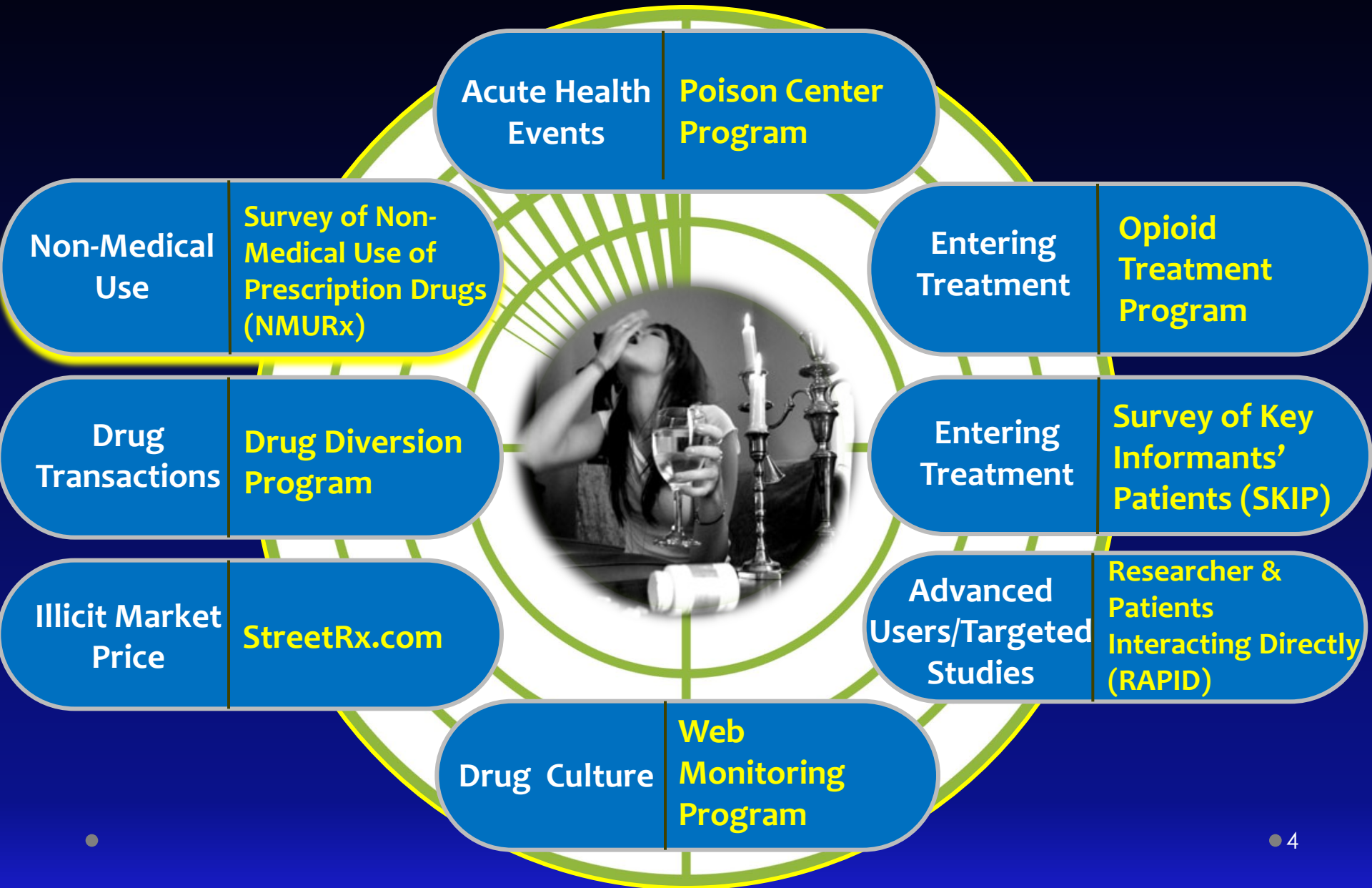
Conflict of Interest Statement

- Most manufacturers of prescription opioids or stimulants subscribe to RADARS System.
- RADARS System is the property of Denver Health and Hospital Authority, a political subdivision of the State of Colorado.
- Subscribers receive information, but do not participate in developing the System, data collection, or analysis. They do not have access to the raw data.
- Employees are prohibited from personal financial relationships with any company.



Mac Miller

Mosaic Surveillance of Prescription Drug Abuse



Data Needs

Substance Abuse

- Timely
- Geographic specificity
- Accuracy
- Trending

Regulatory

- Substance Abuse, plus
 - Product specificity
 - Faster
 - Subpopulations

Data Available

Single Perspective

- Federal
 - Drug Abuse Warning Network (DAWN)
 - National Survey of Drug Use and Health (NSDUH)
 - Treatment Episode Dataset (TEDS)
 - National Vital Statistic System (NVSS)
 - National Forensic Laboratory System (NFLIS)
- National Poison Data System (NPDS)
- IQVIA
- Symphony Health

Multiple perspective

- RADARS System
 - IQVIA
 - Poison Centers
 - Substance abuse treatment centers
 - Drug diversion investigators
 - Nationally representative survey
 - StreetRx
 - Researchers and Patients Interacting Directly (RAPID)
 - Web monitoring
 - Coroner/NDI/DIM
- Inflexxion Navipro
 - Treatment Centers



If you can't be with the one you
love, love the one you're with.

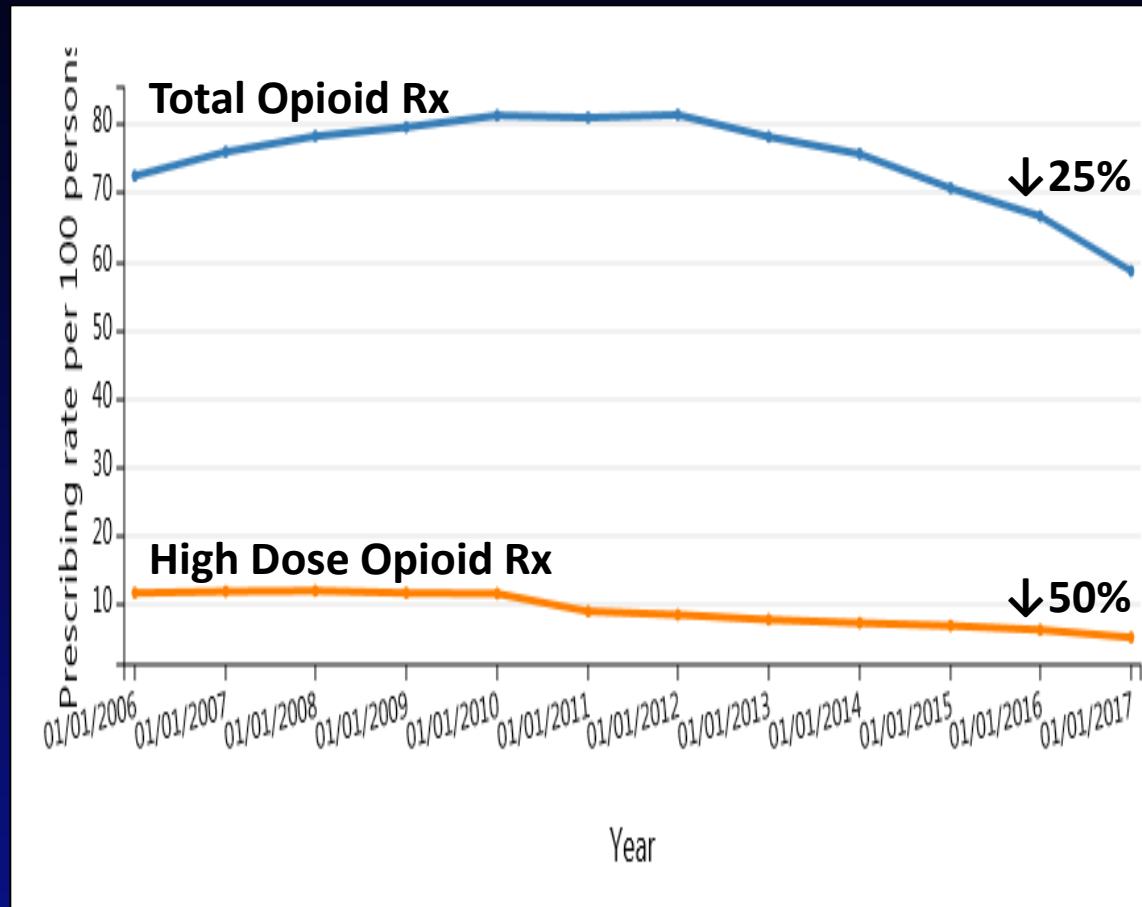
Billy Preston

 quote fancy

How do we put
this information together?

...

Is Rx Drug Abuse Decreasing?

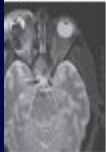


IQVIA Transactional Data Warehouse

Unanticipated Consequences



The NEW ENGLAND
JOURNAL of MEDICINE



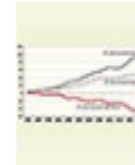
Case Studies in Social Medicine

DISCOVER NOW →



PERSPECTIVE

Pharmaceutical Protections in
U.S. Trade Deals — What Do
Americans Get in Return...



ORIGINAL ARTICLE

Transcatheter Aortic-Valve
Replacement with a Balloon-
Expandable Valve in Low-Ri.

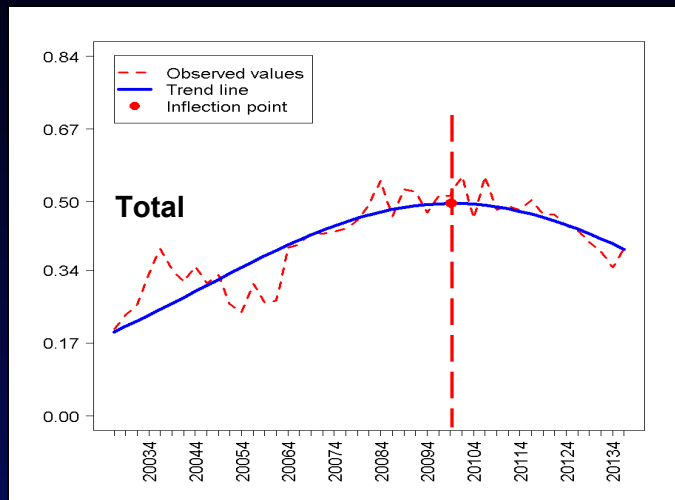
Perspective

No Shortcuts to Safer Opioid Prescribing

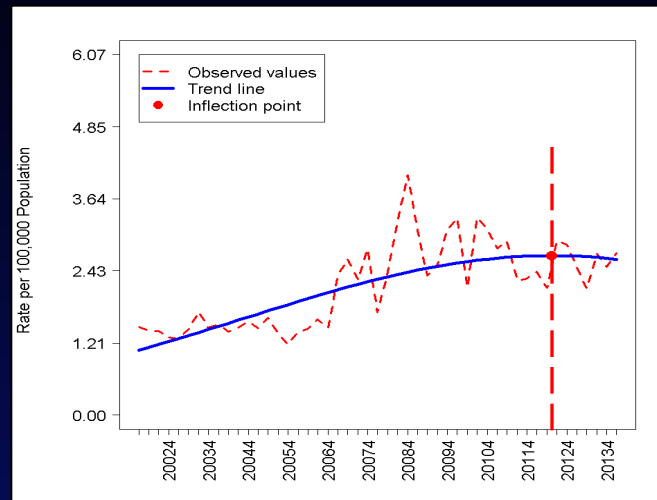
Deborah Dowell, M.D., M.P.H., Tamara Haegerich, Ph.D., and Roger Chou, M.D.

Is Rx Drug Abuse Decreasing?

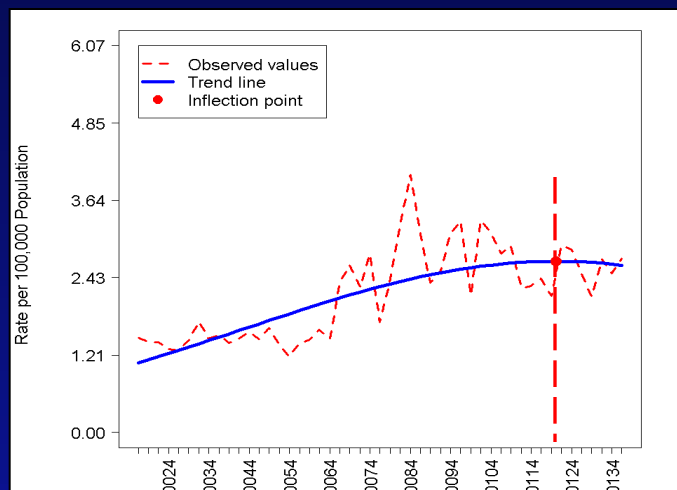
Poison Center Program



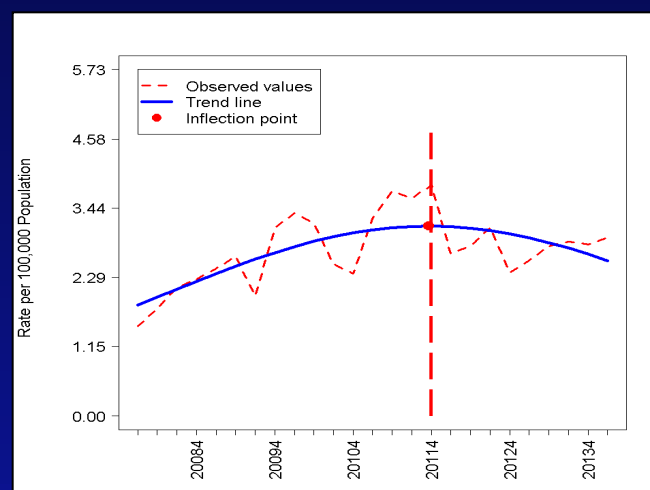
Drug Diversion Program



Opioid Treatment Program



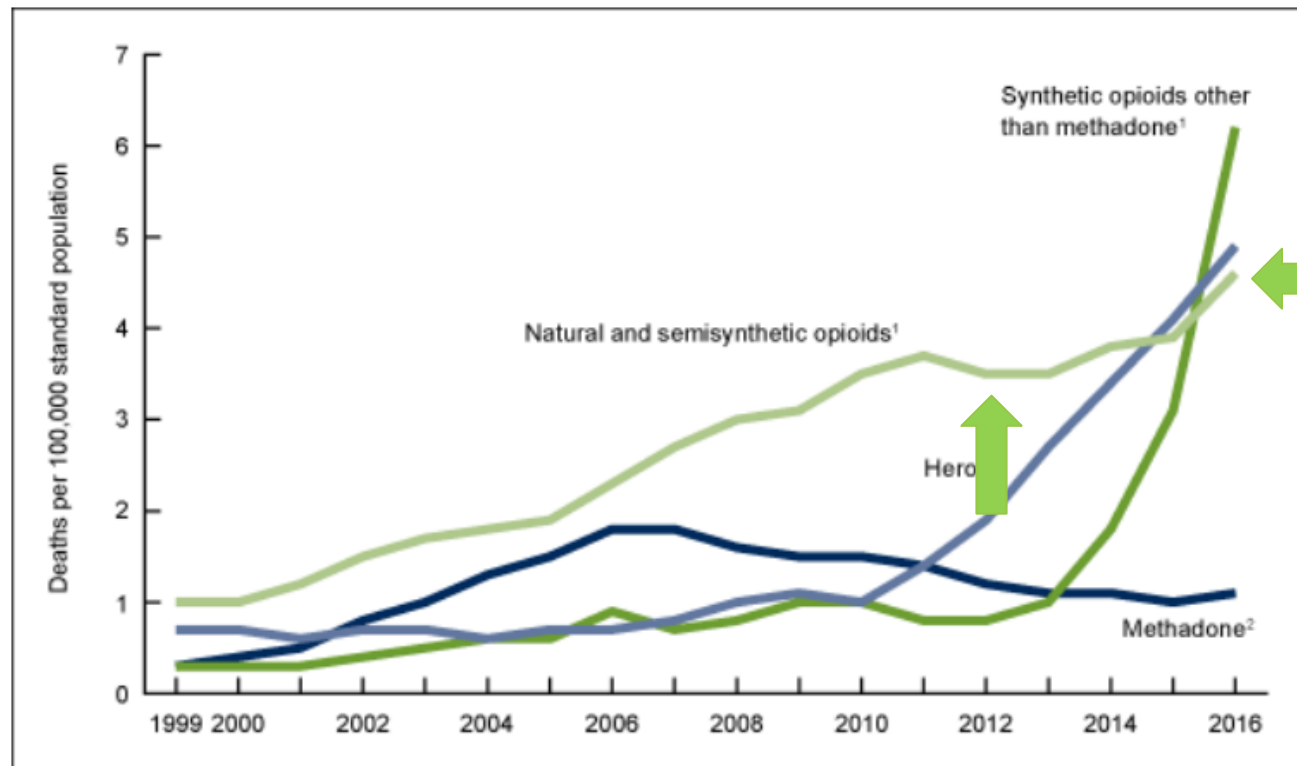
Survey of Key Informant Patients



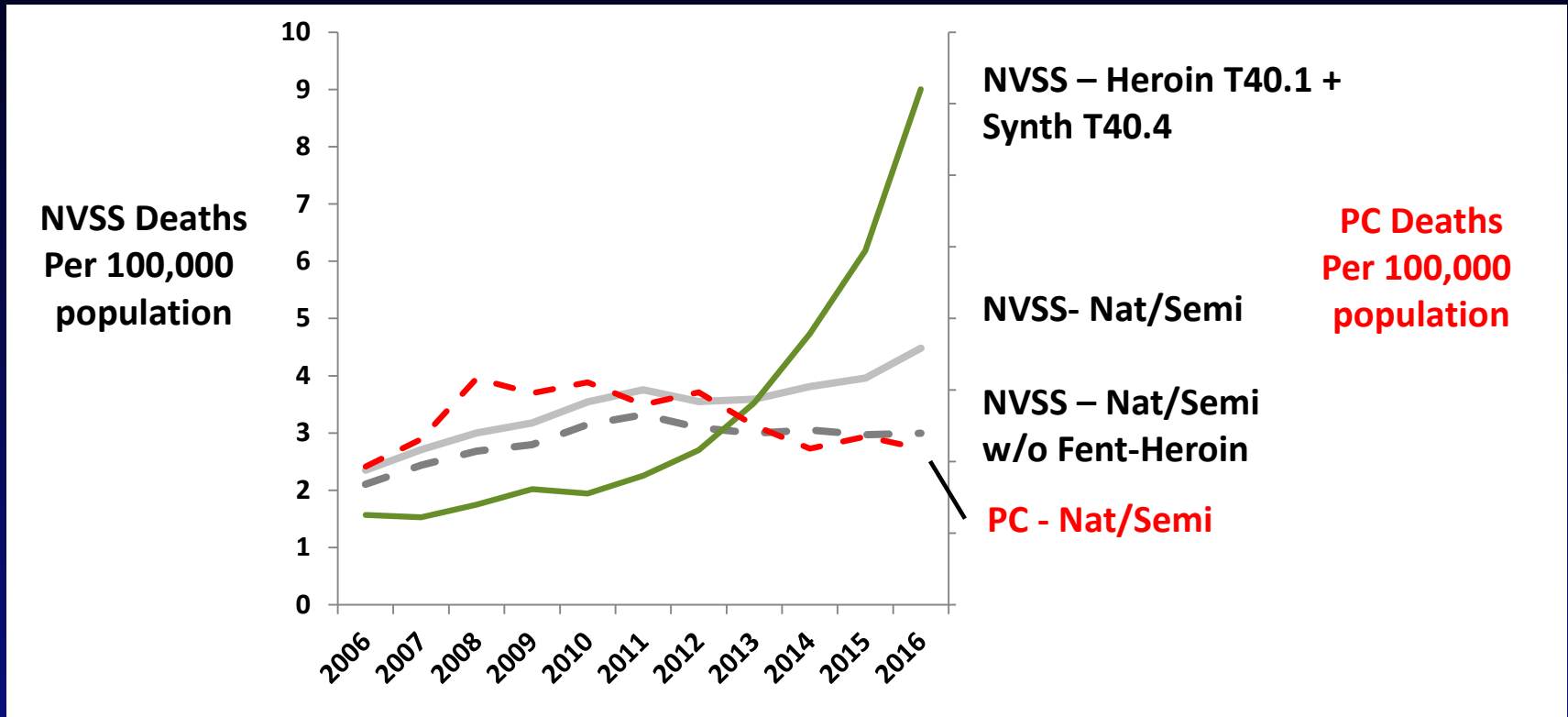
● Analgesics: oxycodone, hydrocodone, hydromorphone, fentanyl, morphine, and tramadol ●

Medical Examiner Data National Vital Statistics System, CDC

Figure 4. Age-adjusted drug overdose death rates, by opioid category: United States, 1999–2016



Deaths from Prescription Opioids are Decreasing Substantially



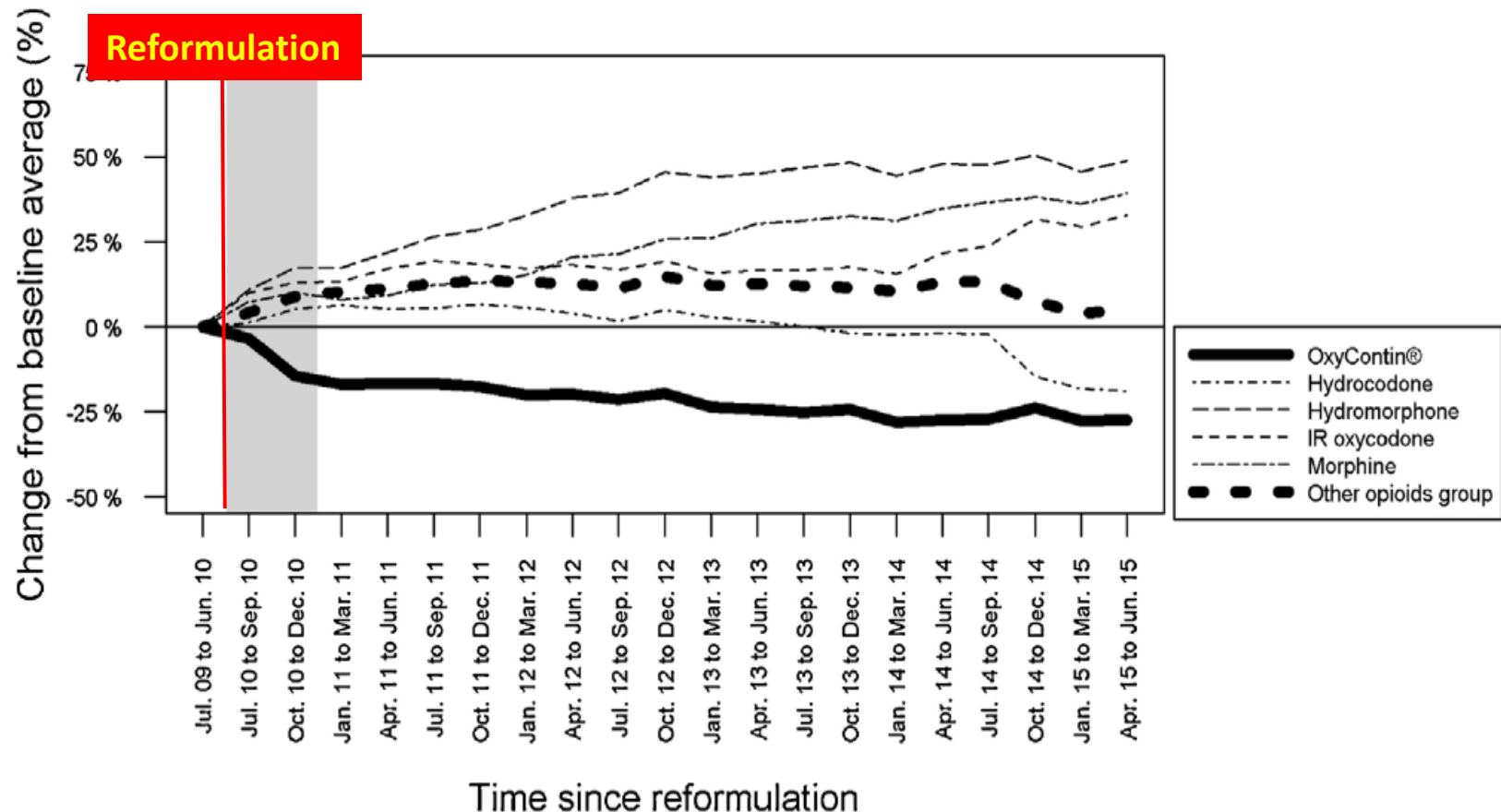
Data from multiple systems indicate
that Rx abuse and mortality
are decreasing

...

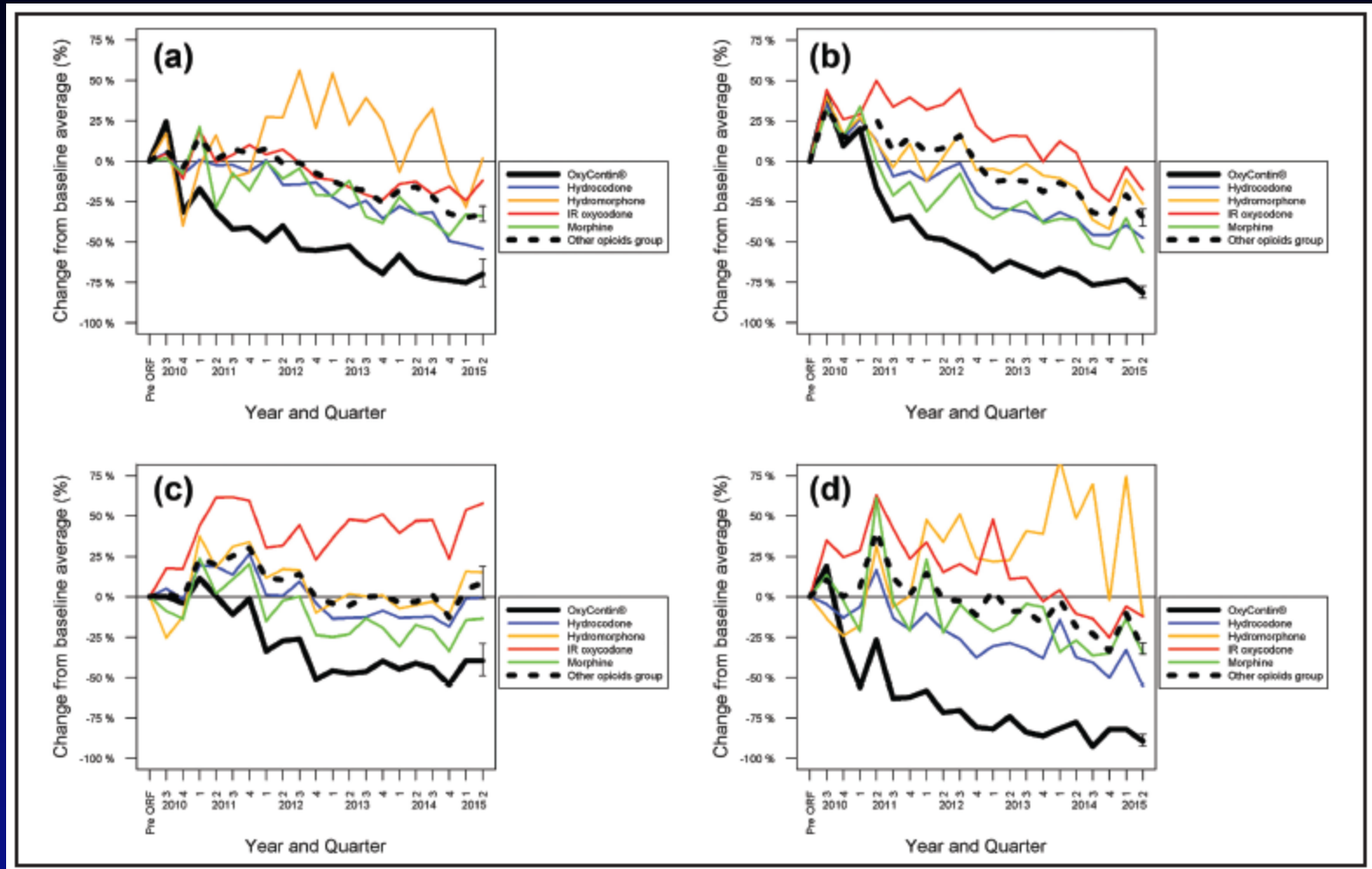
Do abuse deterrent opioid formulations work?

Richard C. Dart, MD, PhD; Janetta L. Iwanicki, MD; Nabarun Dasgupta, PhD;
Theodore J. Cicero, PhD; Sidney H. Schnoll, MD, PhD

Opioid Rx Dispensed in US, 2009 - 2015

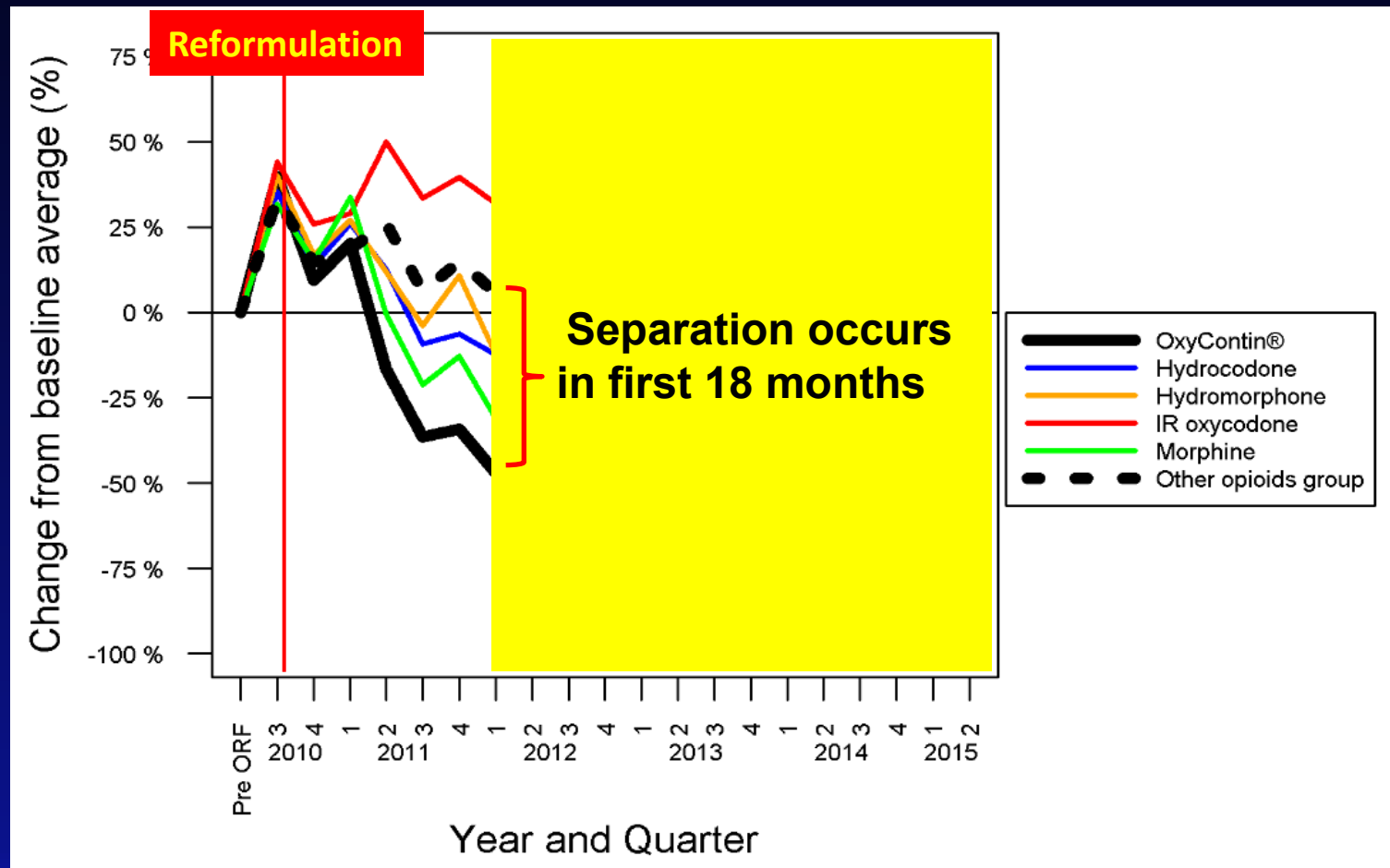


OxyContin v. Comparators in 4 Programs

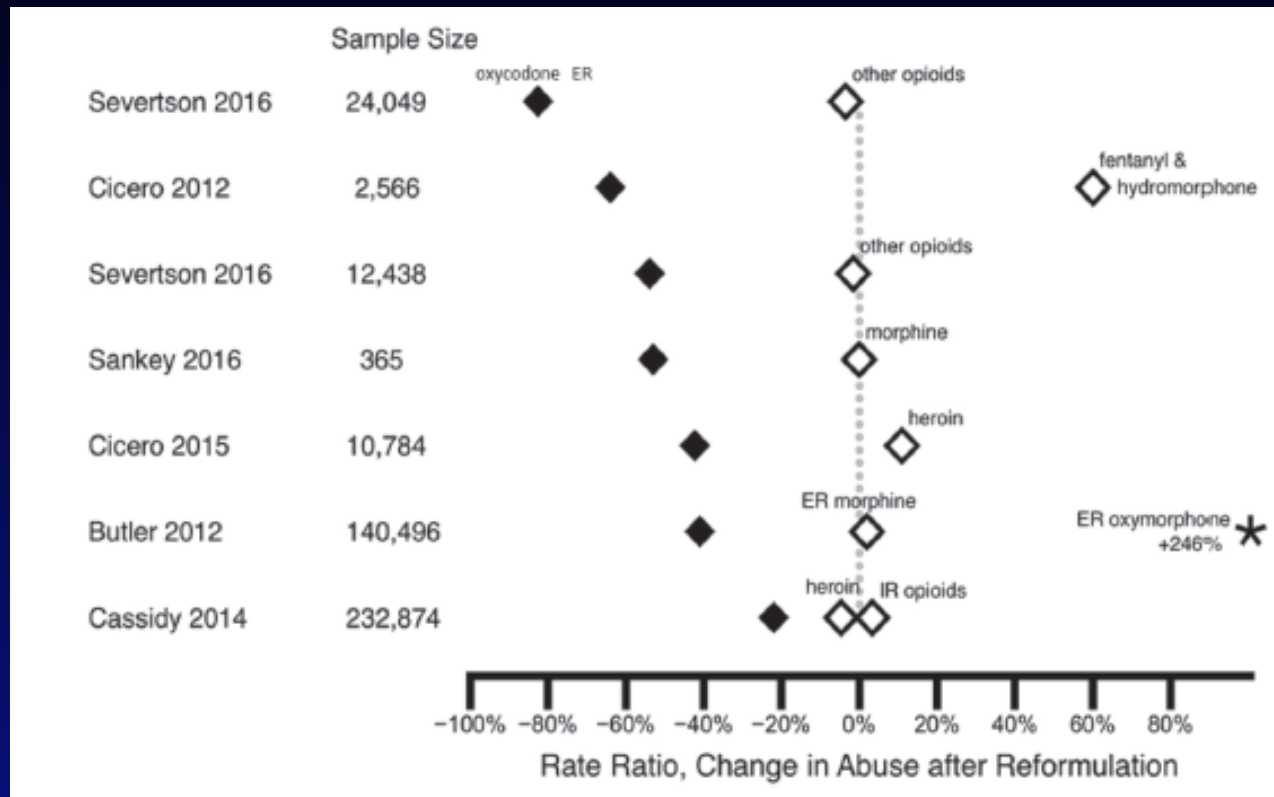


Drug Diversion, Drugs Involved 2009 - 2015

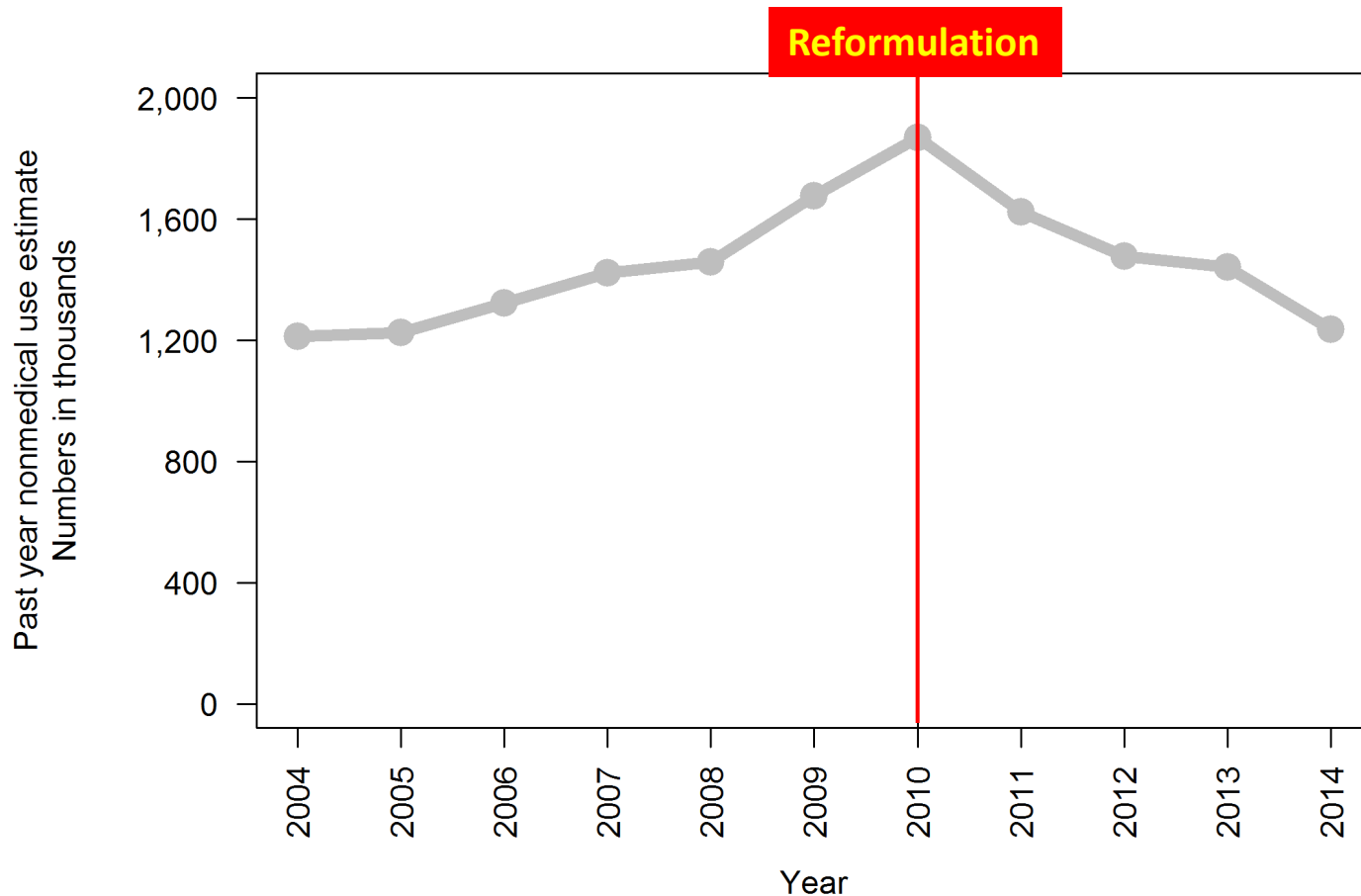
- 250 law enforcement investigators in 49 states



OxyContin v. Comparators in 4 Programs



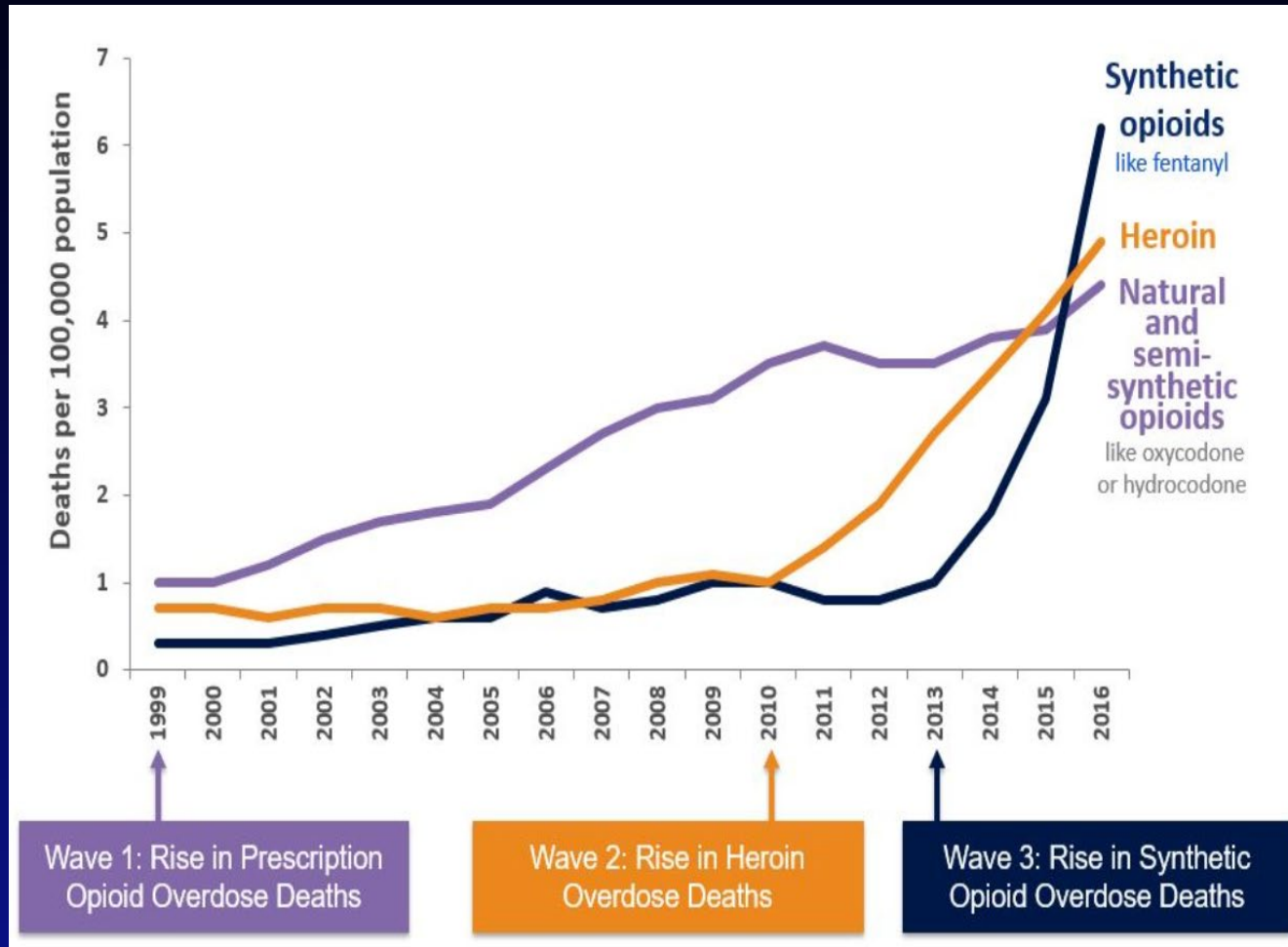
Past Year Nonmedical Use of OxyContin® NSDUH, 2006 – 2014



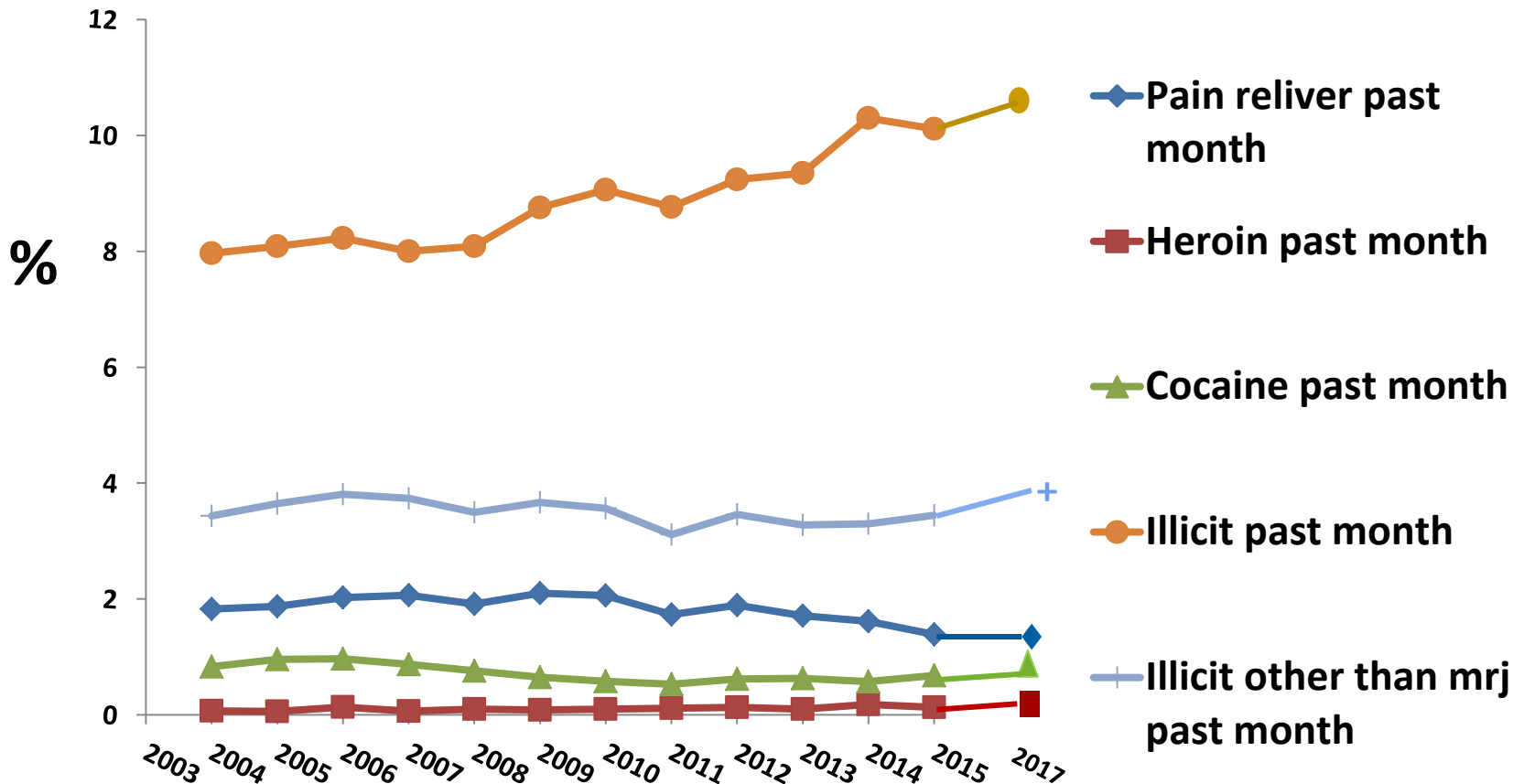
The ADF version of OxyContin has decreased abuse, non-oral abuse in multiple systems in 3 different countries.

...

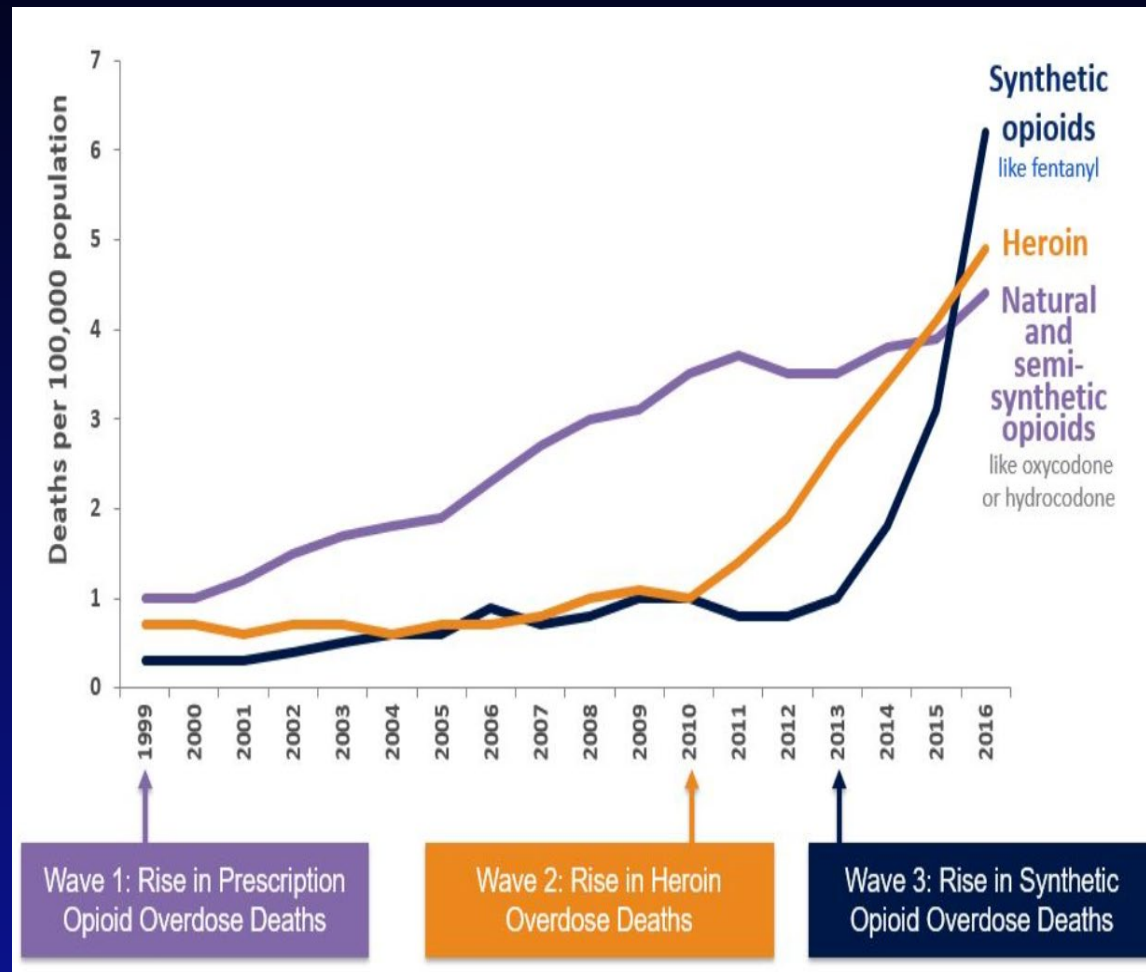
Understanding the Opioid Epidemic



Is Total Substance Abuse Increasing?



~~Opioid Epidemic~~ Epidemic of Opioid Deaths



Recommendations

- John Peppin

- Required Pain/opioid Education for Medical Boards.
- Standardized requirements for Medical Examiners for all states:
- Updating of Death Certificates.

- John Coleman

- HHS should adopt clinical modifications to address the ambiguities in the current ICD-10-T-codes for categorizing drug-related mortality.
- The Public Health Service Act should be amended to require states to use CDC-supplied error-avoidance software in preparing and submitting copies of e-Vital electronic death certificates via a restricted CDC portal.

- Rick Dart

- ADFs should be promoted and compensated by payers
- US drug policy should focus on demand reduction like Health Communities and Project Lazarus
- Supply reduction will be even more difficult in the age of fentanyl

Questions?

Richard.Dart@rmpdc.org