

Lisbon Addictions 2017

The Evolution of the Opioid Abuse Epidemic in North America

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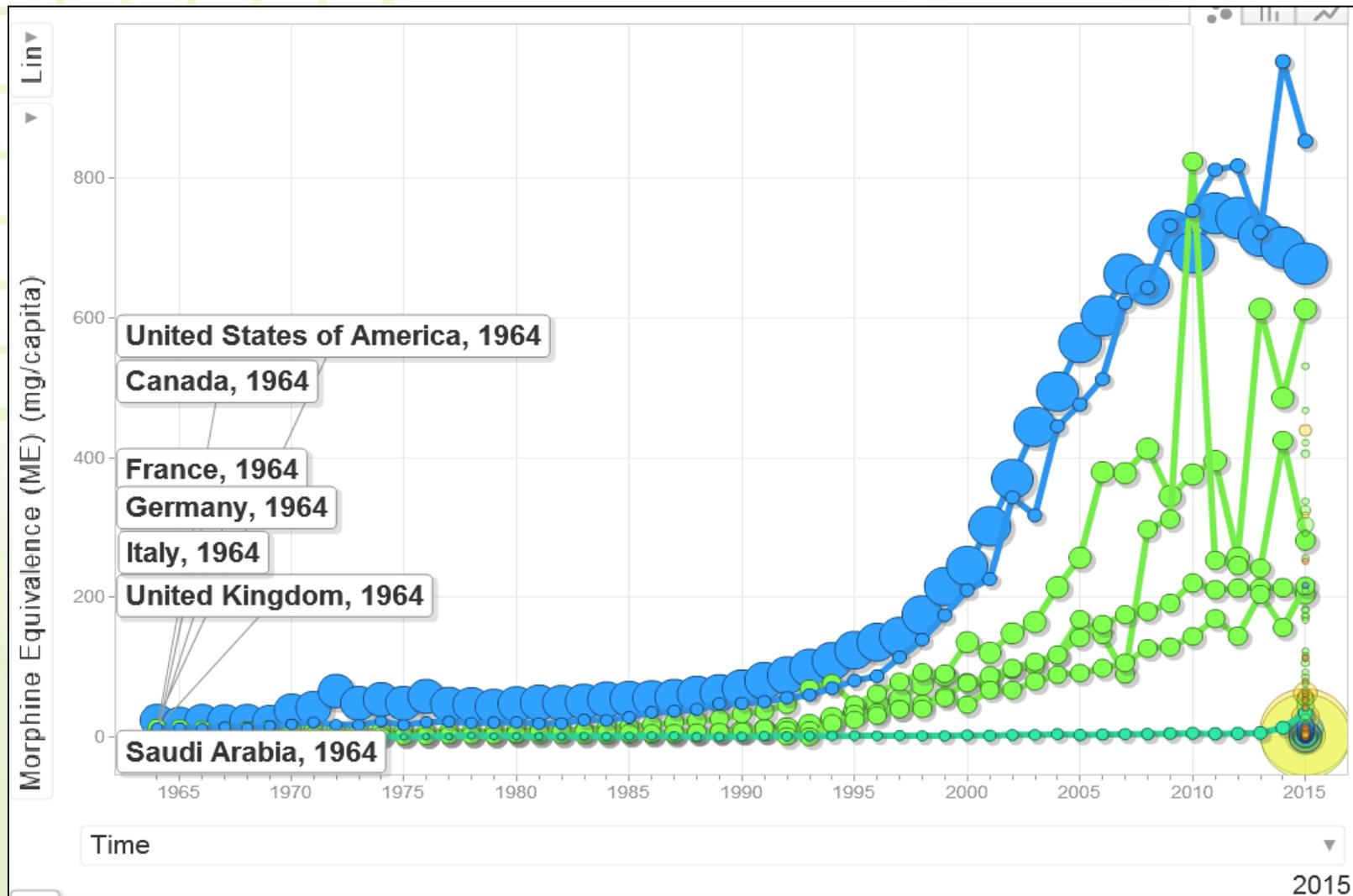
RADARS[®] System

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 development, data collection, or analysis of the data. They do not have access to the raw data.
- Employees are prohibited from personal financial relationships with any company.



Supply of Legal Opioid Analgesics



<https://ppsg.medicine.wisc.edu/chart>

What is the Problem We Need to Solve?

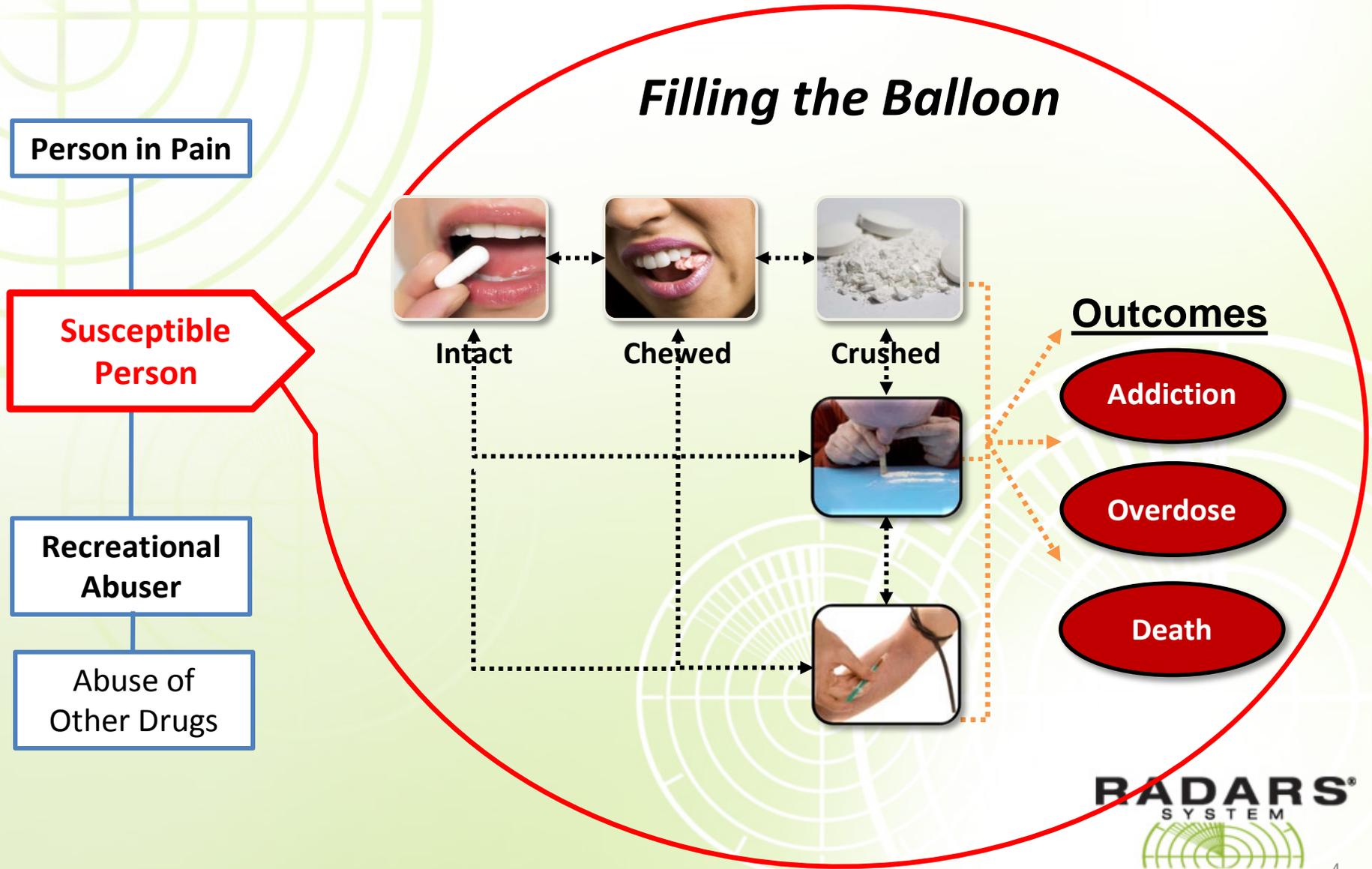
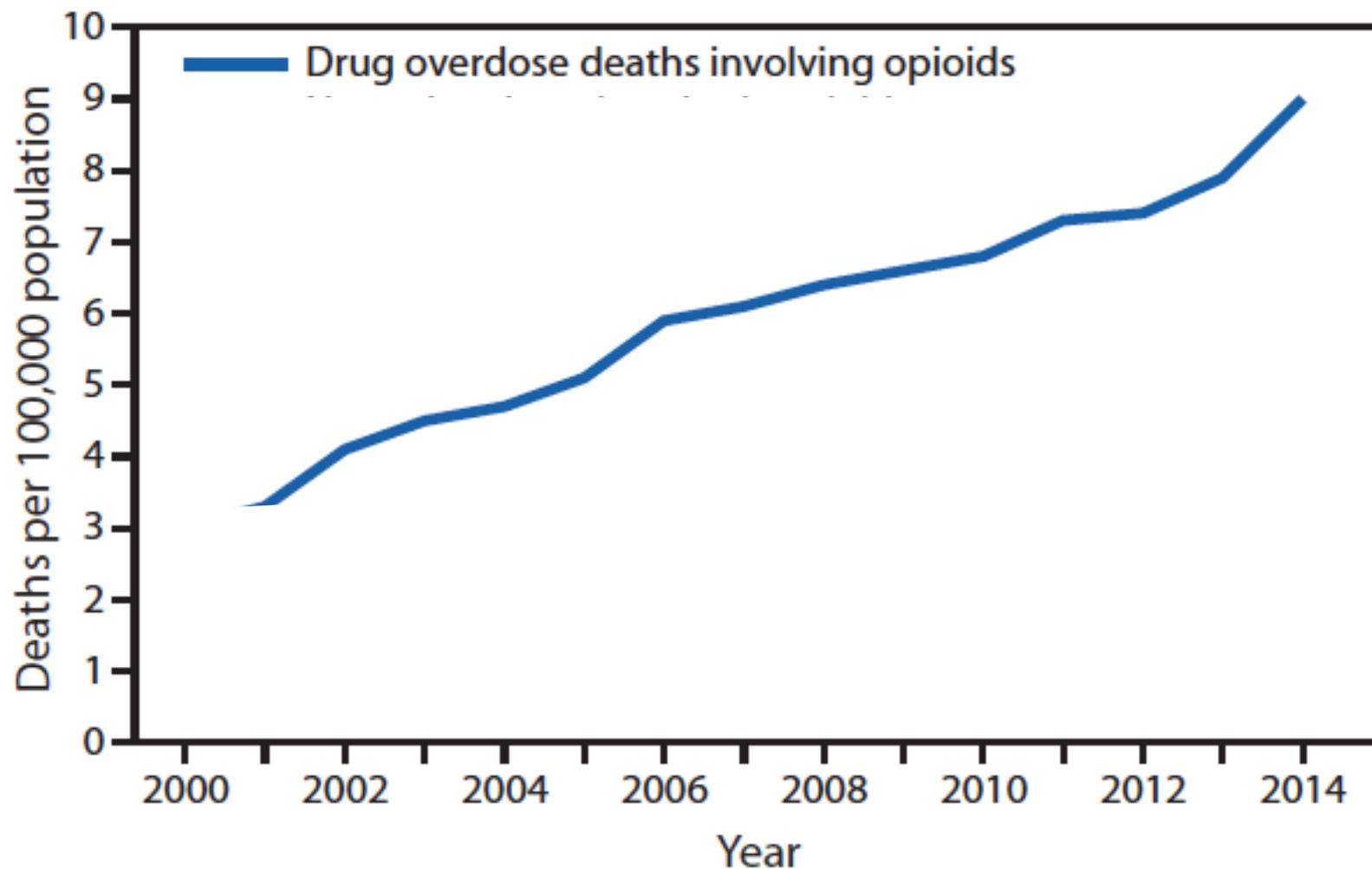
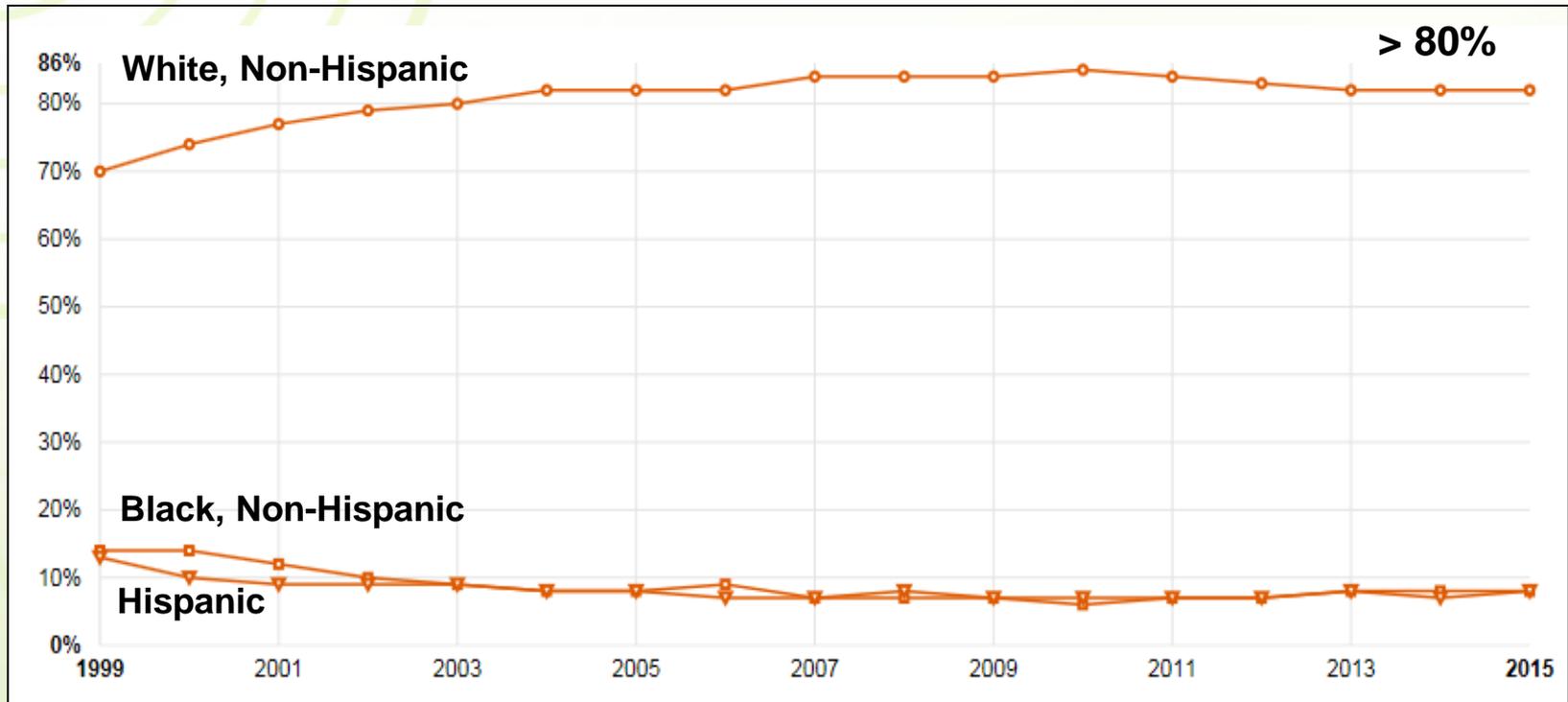


FIGURE 2. Drug overdose deaths* involving opioids,^{†,§} by type of opioid[¶] — United States, 2000–2014

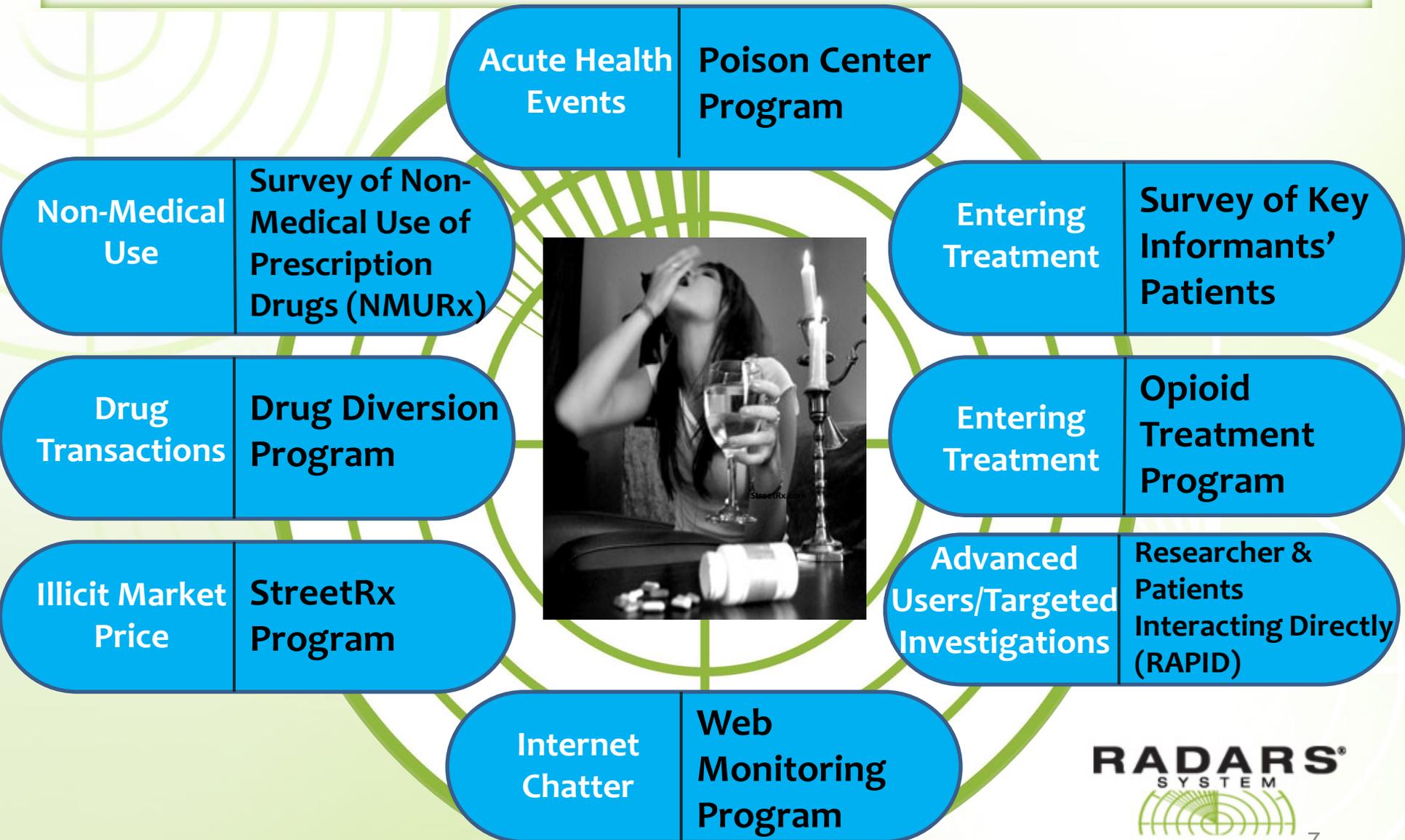


Opioid Overdose Mortality in US is Primarily White, Non-Hispanic



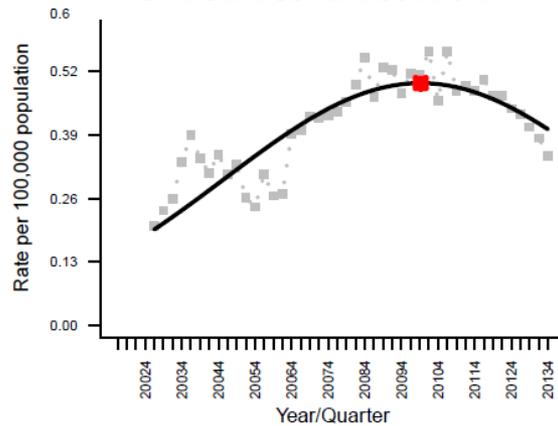
CDC Wonder, analyzed by Kaiser Family Foundation: <https://www.kff.org>

Mosaic Surveillance of Prescription Drug Abuse

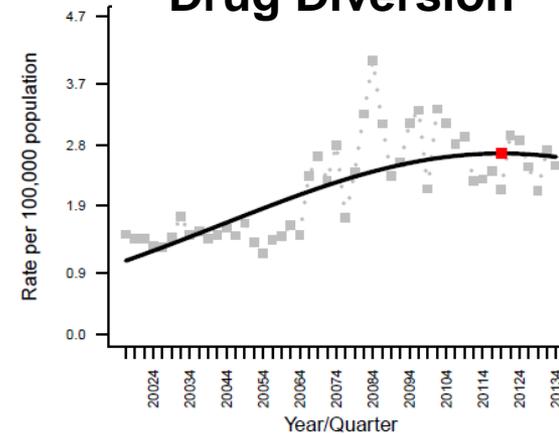


Prescription Opioid Abuse is Declining in the US

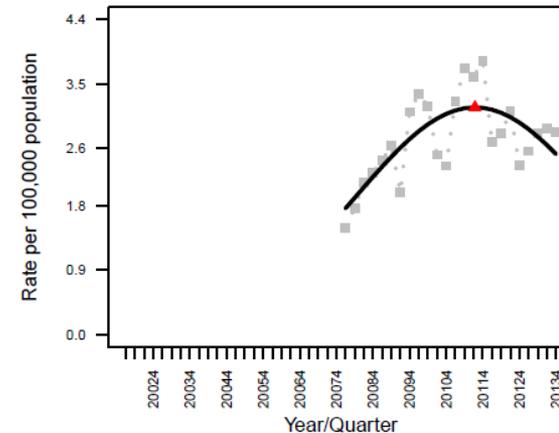
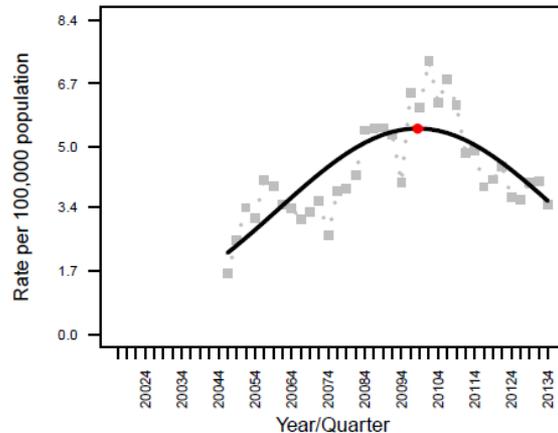
Poison Centers



Drug Diversion



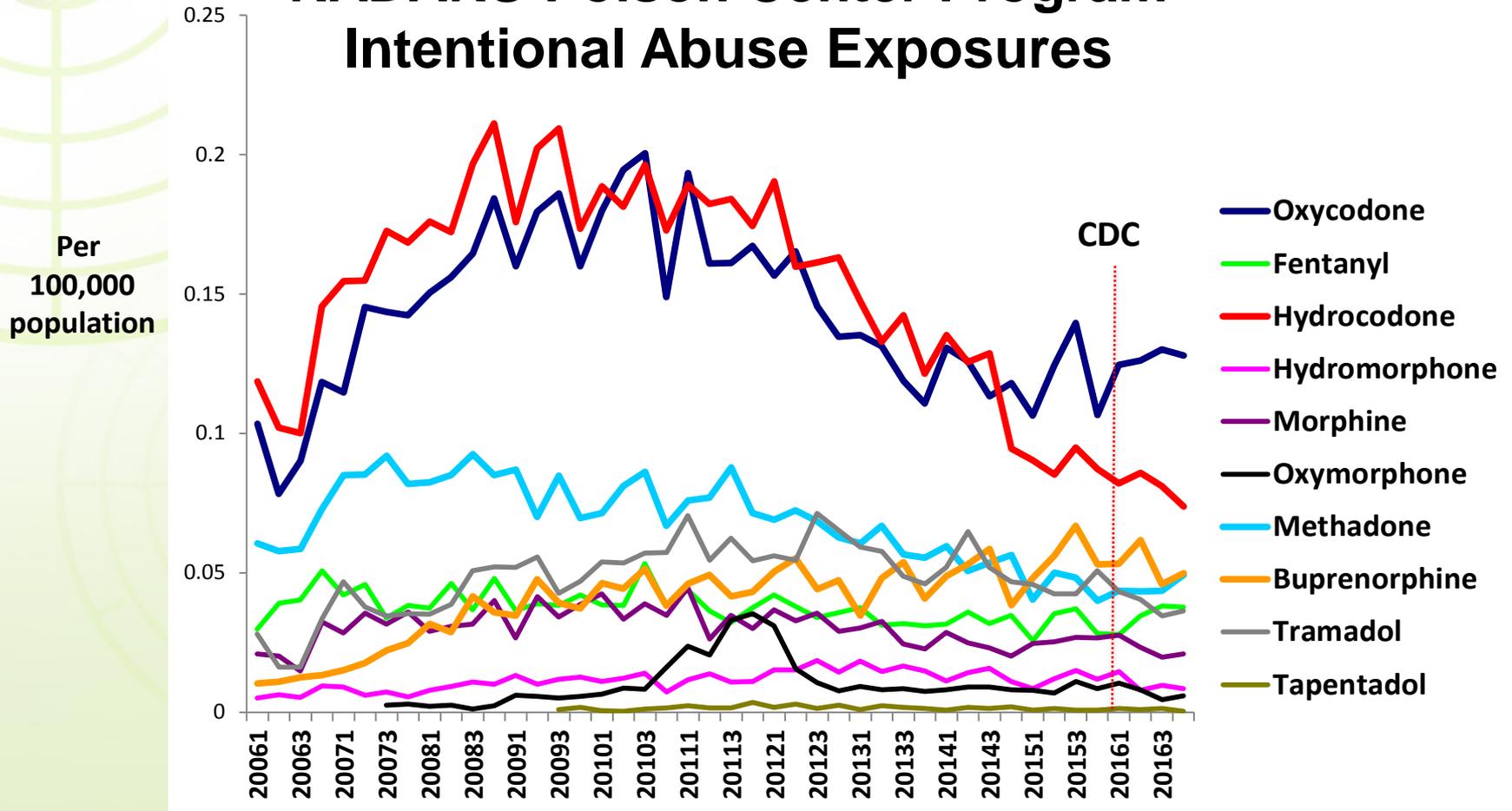
Substance Abuse Treatment Centers



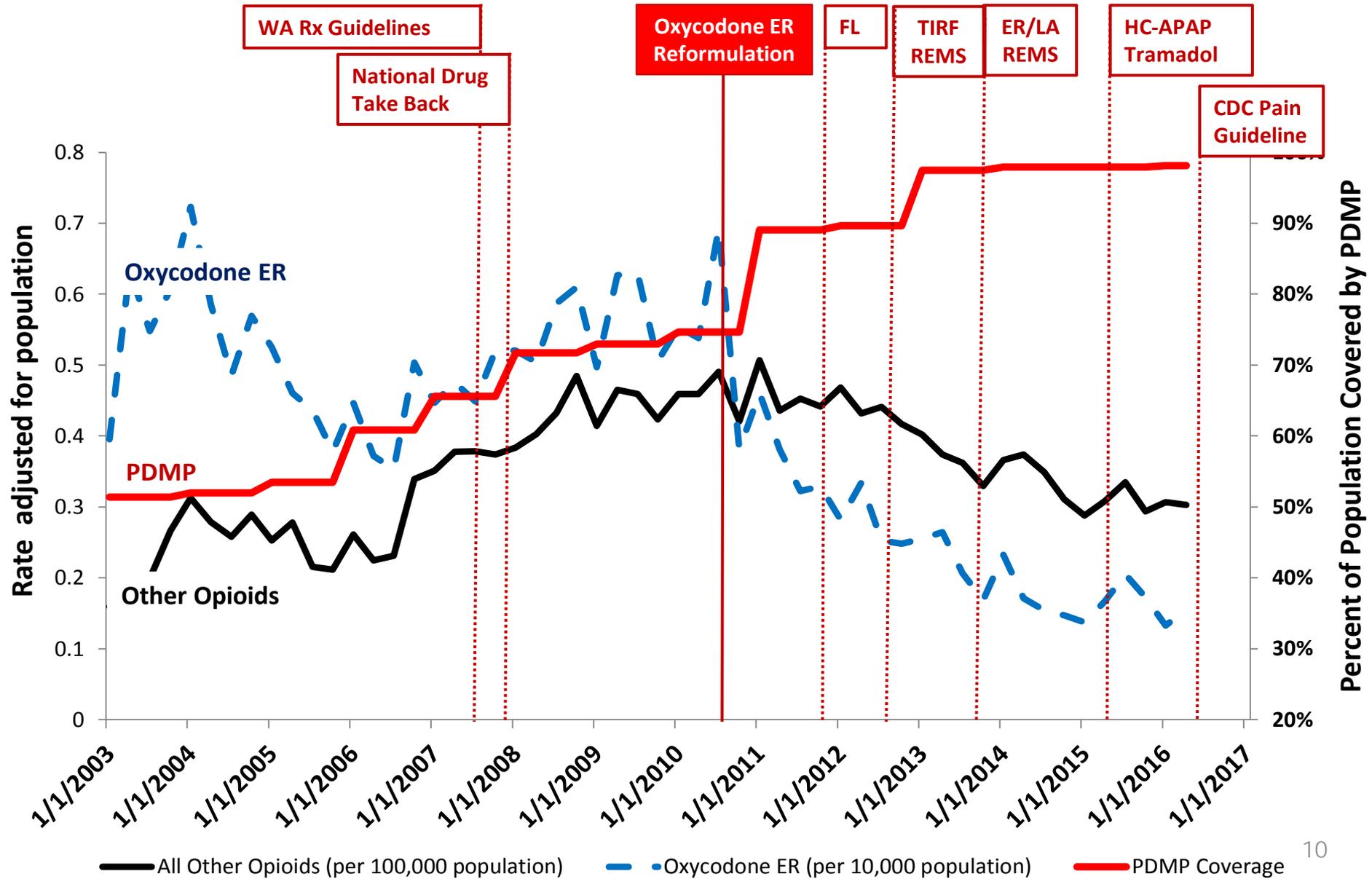
Dart RC, et al. Trends in Opioid Analgesic Abuse and Mortality in the United States. N Engl J Med 2015;372:241-8

Hydrocodone & Oxycodone Dominate Rx Opioid Abuse in US

RADARS Poison Center Program Intentional Abuse Exposures

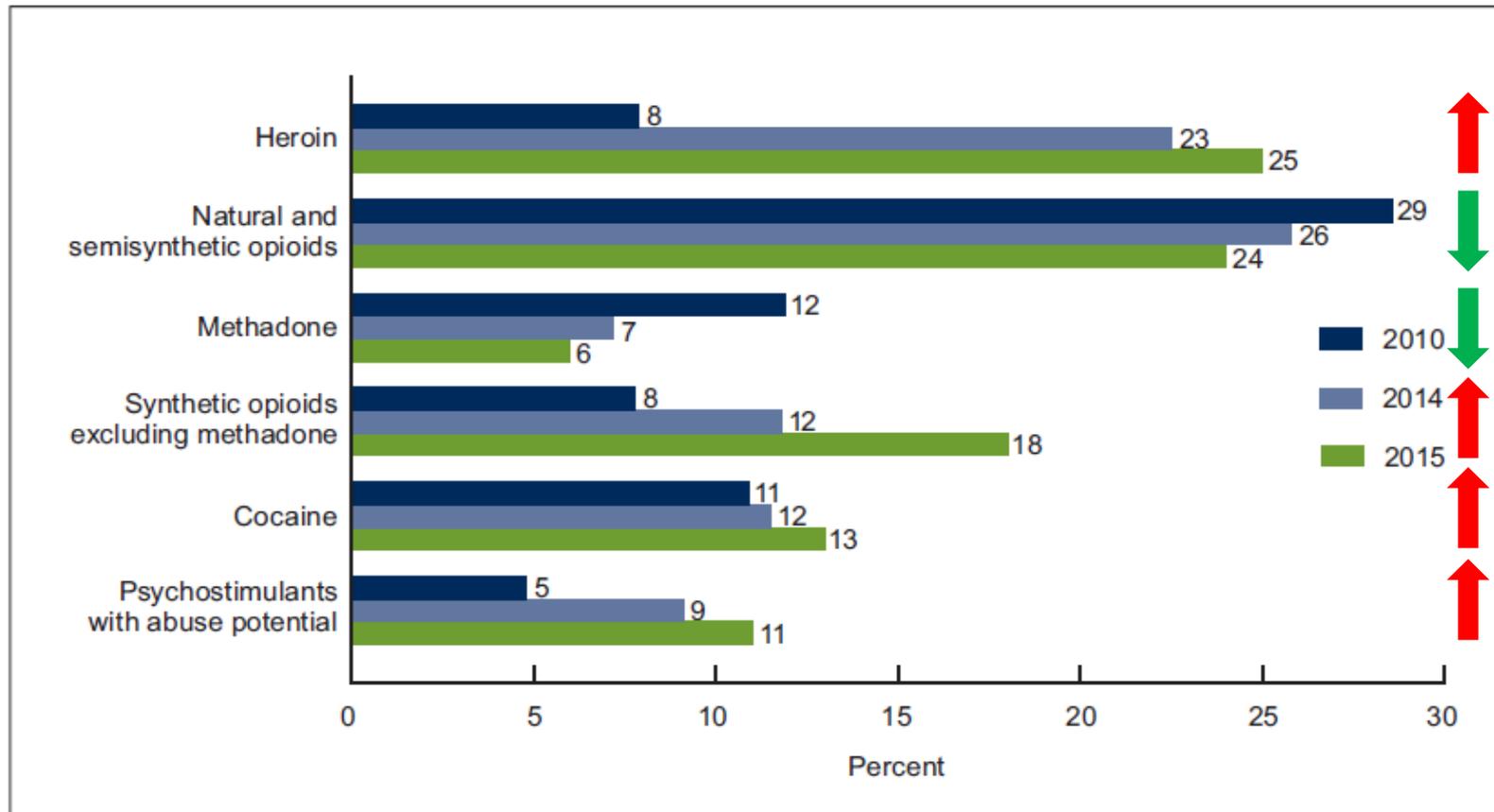


Evolution of Prescription Drug Abuse in US



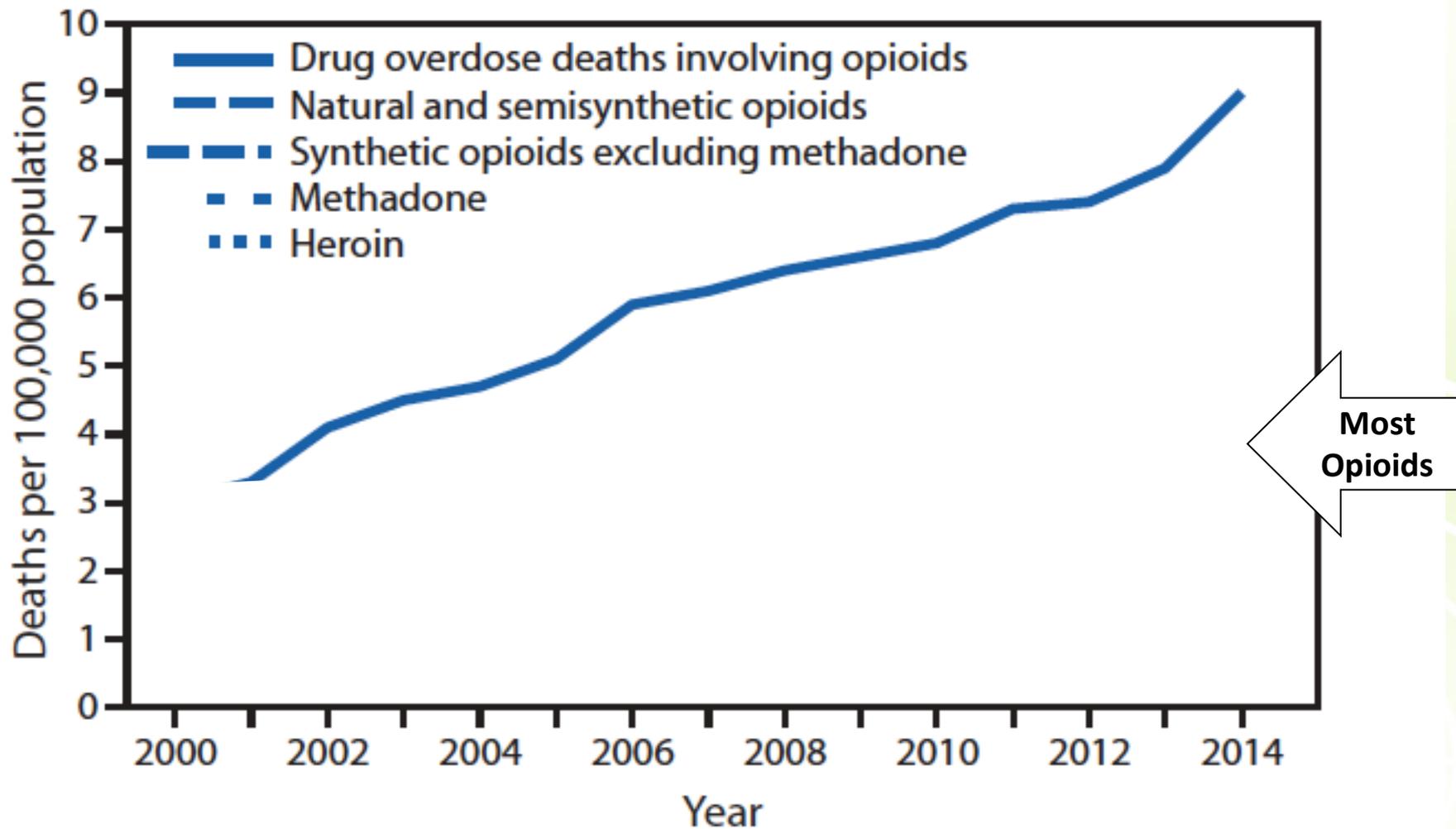
Percentage Drug Deaths Comparing 2010, 2014, 2015

Figure 5. Percentage of drug overdose deaths involving selected drug categories: United States, 2010, 2014, and 2015

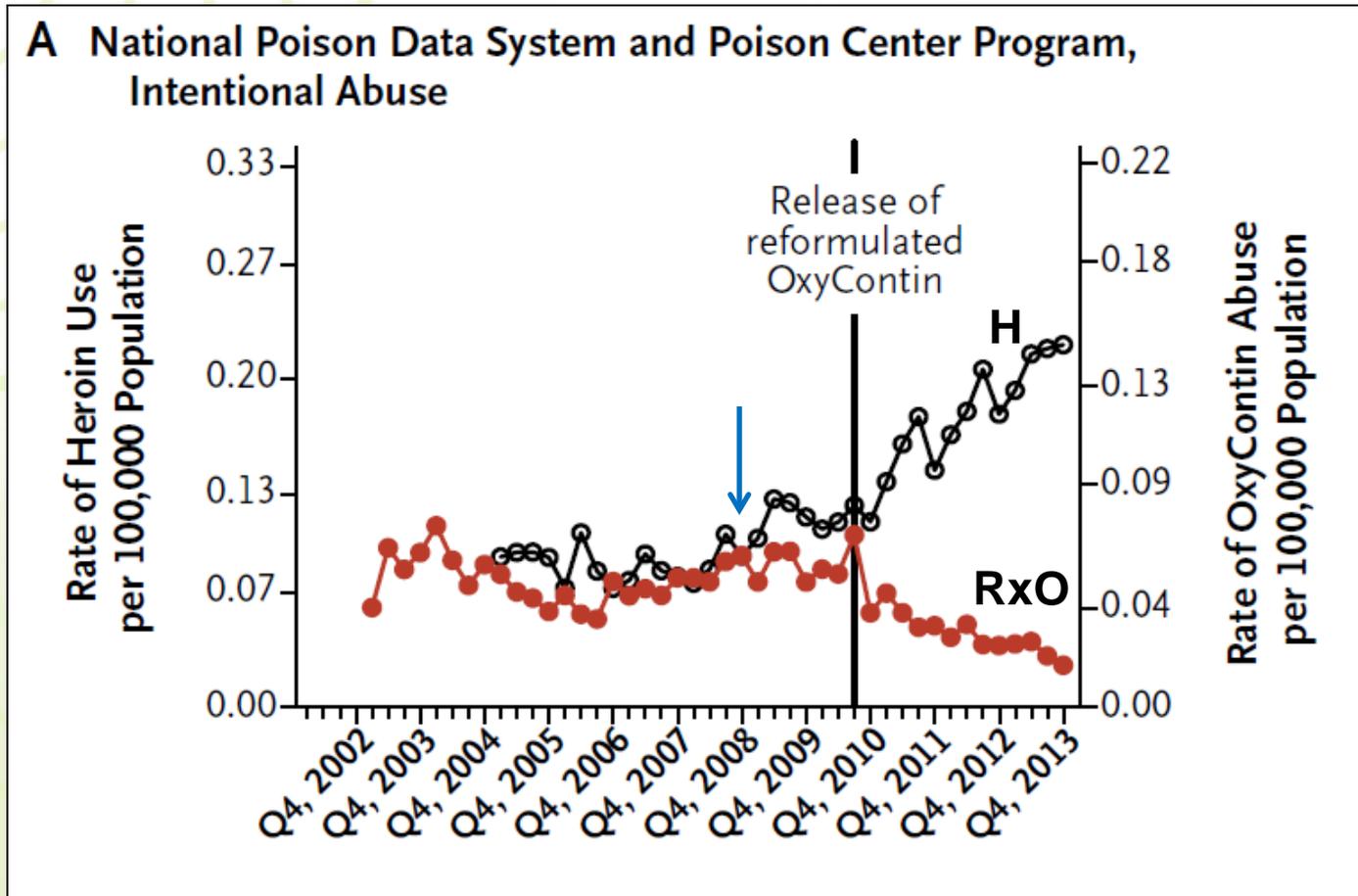


Hedegaard H, et al. Drug overdose deaths in the United States, 1999–2015. NCHS data brief, 273. National Center for Health Statistics. 2017.

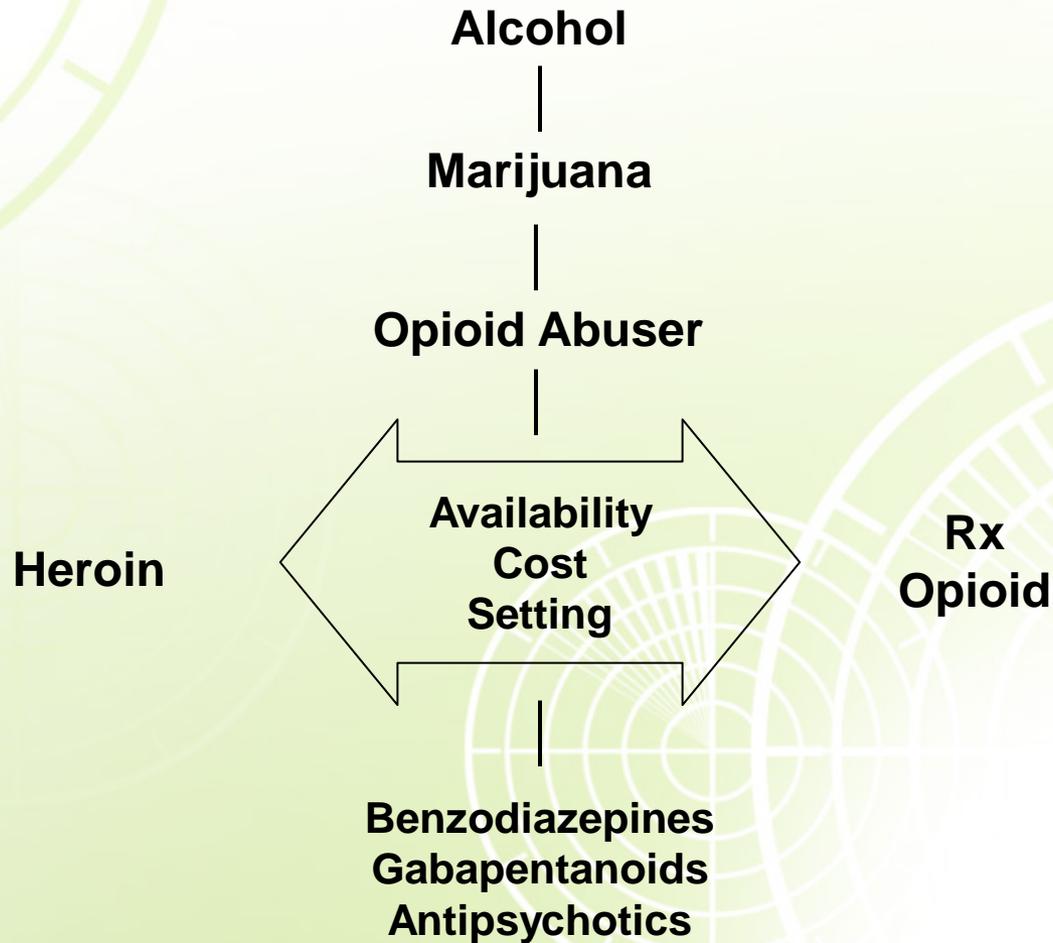
FIGURE 2. Drug overdose deaths* involving opioids,^{†,§} by type of opioid[¶] — United States, 2000–2014



Divergence of Heroin and Rx Opioids - 2008



Heroin and Other Drugs Push? Or Pull?



Ever-Expanding List of Drugs of Abuse

- Opioids (heroin, prescription analgesics, loperamide)
- Stimulants (methamphetamine, cocaine, Adderall, Concerta, synthetic cannabinoids)
- Cannabinoids (marijuana)
- Hallucinogens (LSD, peyote, ketamine)
- Antipsychotics (olanzapine)
- Novel psychoactive substances (NPS) “Designer Drugs”
- Any CNS active drug?
 - Gabapentin, pregabalin
 - Nicotine

Summary

- Prescription opioid abuse peaked 2010-2011 and has subsequently decreased steadily
- Illicit opioid abuse transformed by new distribution methods and is increasing rapidly
- Deaths occur primarily due to fentanyl-laced heroin
- Substance abuse is complex
 - Focusing on one or two agents may produce misleading