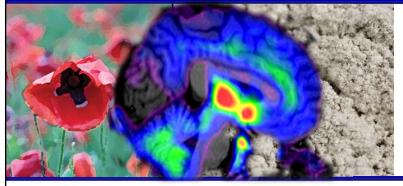
Intersecting Epidemics of Prescription Opioids and Heroin



USA 2013 Overdose Deaths:

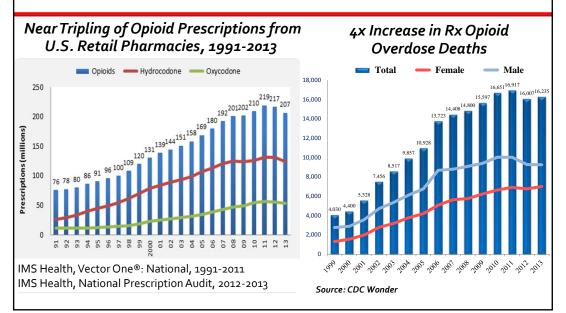
- 43,982 Any Drug
- 16,235 Rx opioid
 - 8,257 Heroin

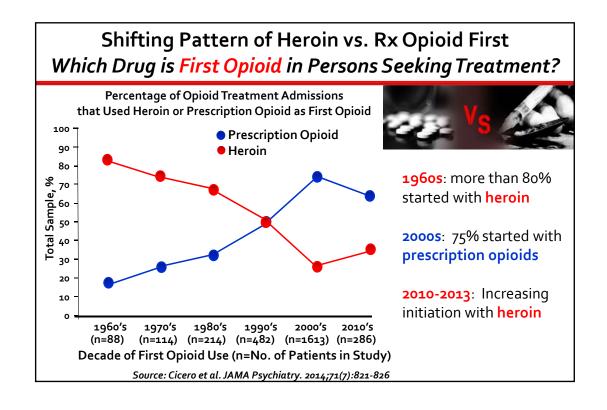
Wilson M. Compton, M.D., M.P.E.
Deputy Director
National Institute on Drug Abuse

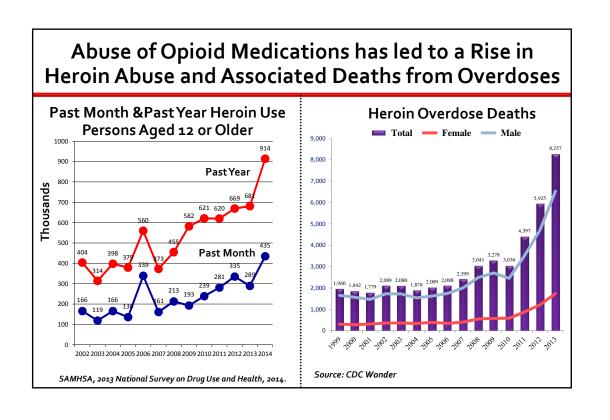


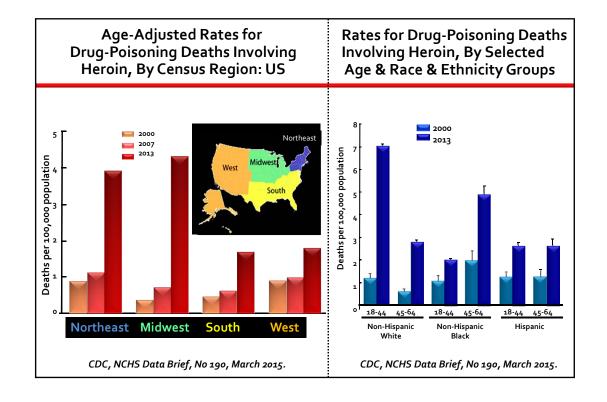


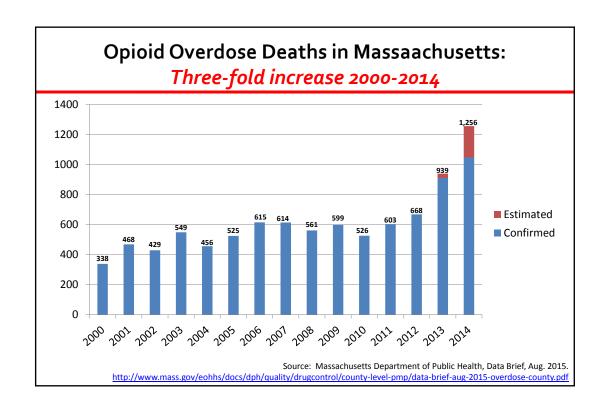
High Levels of Opioid Prescriptions have Facilitated Diversion & Contributed to Overdose Deaths

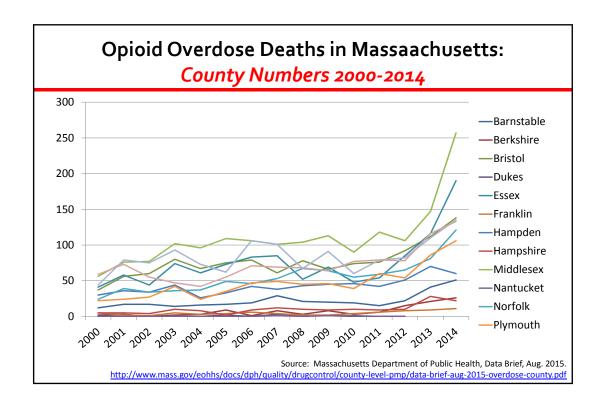


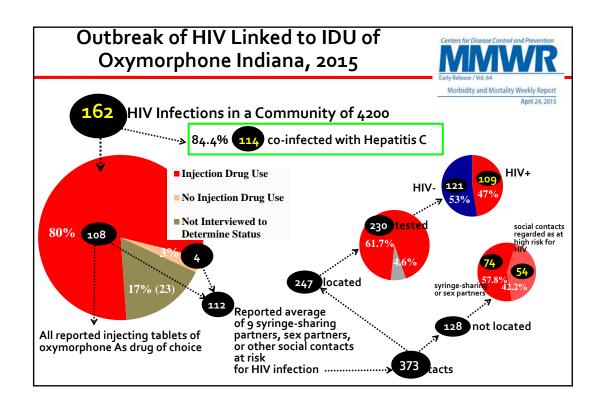


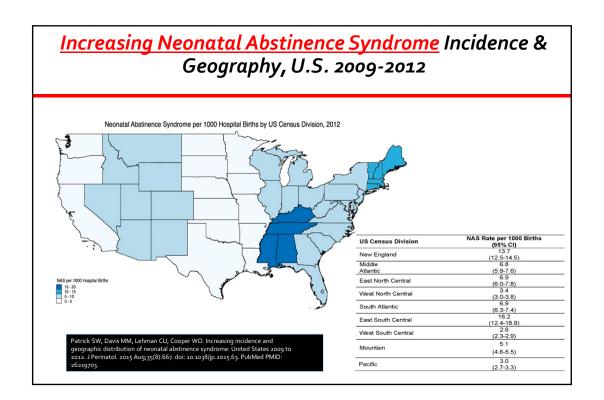


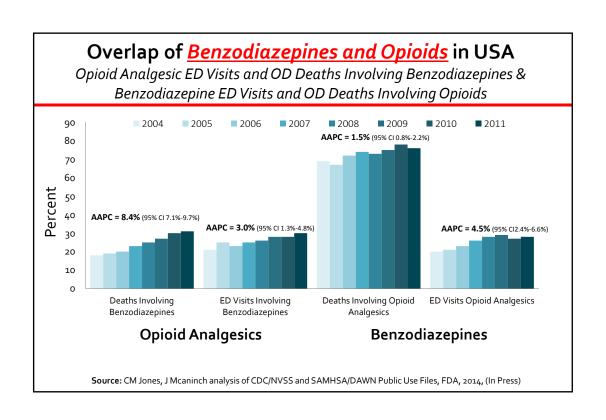












Secretary Burwell's/HHS Opioid Priority Areas

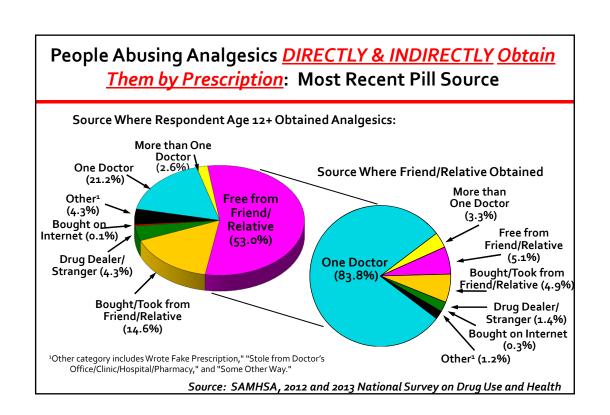
- Opioid <u>prescribing practices</u> to reduce opioid use disorders and overdose
- The expanded use of <u>naloxone</u>, used to treat opioid overdoses
- Expanded use of <u>medication assisted treatment</u>
 (MAT) for opioid use disorders







http://aspe.hhs.gov/sp/reports/2015/OpioidInitiative/es OpioidInitiative.pdf



Overdose Intervention

- Naloxone Distribution for opioid overdose victims. The potential for direct intervention to save lives.
 - Note the April 3, 2014 FDA approval of the naloxone auto-injector (called "Evzio")



- Naloxone Nasal Spray Development
 Needle-free, unit-dose, ready-to-use opioid overdose antidote.
 - NIDA STTR Grantee AntiOp, Inc., Daniel Wermeling, CEO
 - NIDA clinical study with Lightlake Therapeutics, Inc.



Accessing Existing and Developing New Medications **Opioid Agonist Treatments Buprenorphine Implants** vs Placebo & Sublingual **Decreased Heroin OD Deaths** Buprenorphine/Naloxone Baltimore, Maryland, 1995-2009 300 % of Patients Failing to Exceed Each Possible Criterion of Success Patients Treated, No. Overdose Deaths, No. Sublingual Heroin overdoses **Buprenorphine Implants Buprenorphine patients** Methadone patients Probuphine is designed to release sustained therapeutic drug levels in patients with opioid addiction for up to Challenge: Compliance with daily intake 20 30 40 50 60 70 80 90 100 Solution: develop long acting medications % of Urines Negative (out of 72) for Opioids Across Weeks 1 to 24 Schwartz RP et al., Am J Public Health 2013. Rosenthal RN et al., Addiction 2013;105: 2141-2149.

