

Opioids and the Public's Health



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What Keeps Me Up At Night

- 2015 Scott County, Indiana (Population: 23,744)
 - a) 190 new HIV cases linked to diversion of legal opioids (Data source: Indiana State Dept. of Health, 2/1/2016)
 - b) ~170 new HCV cases
- 2015 Lane County, Oregon (Population: 362,895)
 - a) 12 new HIV cases
 - b) Scott Co. rate applied to Lane Co: 2,904 cases

What Keeps Me Up At Night

- CDC: Lifetime HIV treatment cost = \$550,000
- Scott County HIV treatment cost: \$104,500,000
- Scott County HCV treatment cost: \$14,280,000
- Lane County with Scott County size outbreak:
 $\$550,000 \times 2,904 = \$1,597,200,000$

Opioid Consumption in USA

- We are 4.4% of the world's population yet consume most of the world's opioid supply.

---hydrocodone (e.g., Vicodin) ~100%

---oxycodone (e.g., Percocet) = 81%

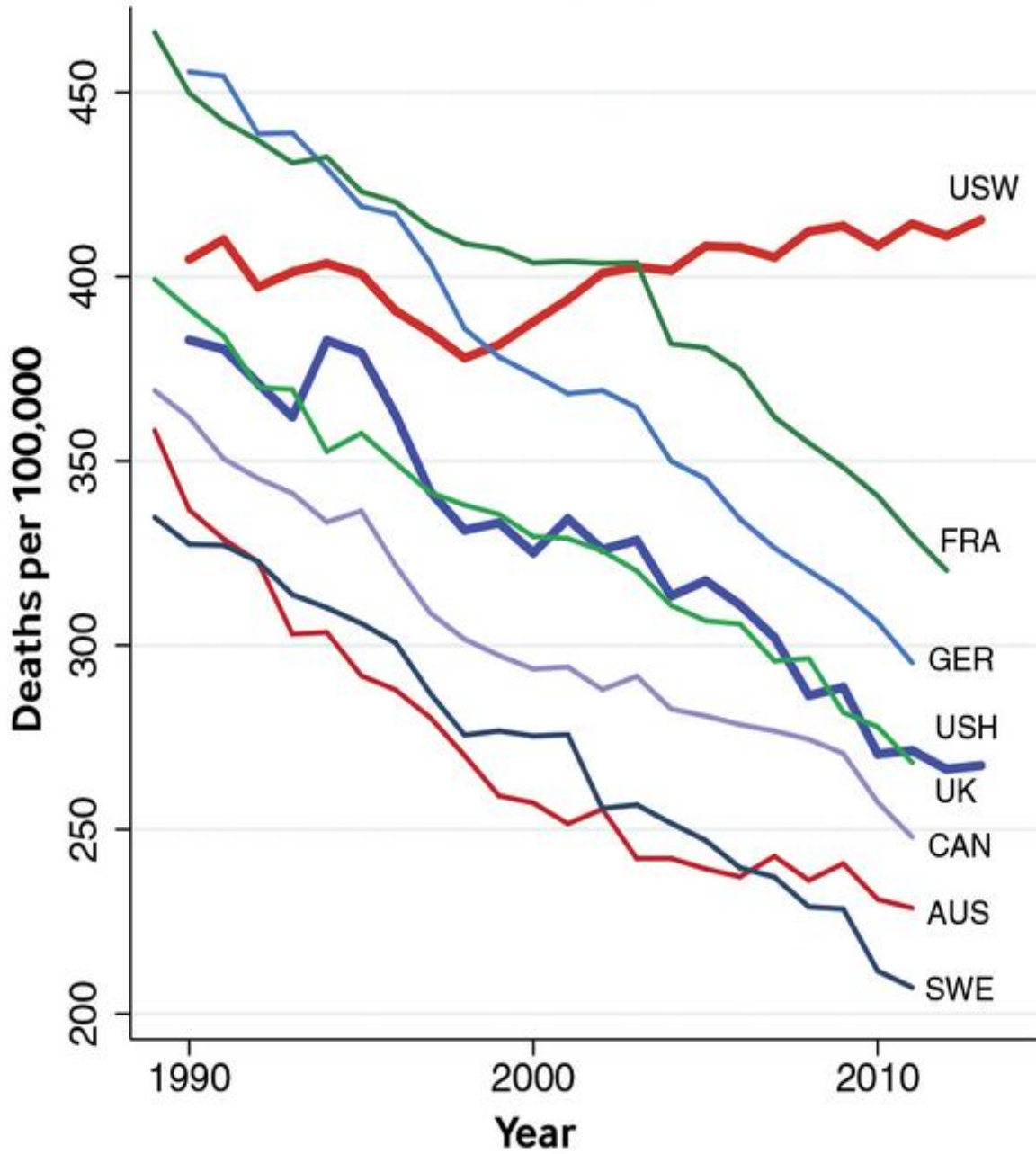
---hydromorphone (e.g., Dilaudid) = 51%

---Data Source: 1.) "America's Addiction to Opioids" (NIDA director Nora D. Volkow, MD)

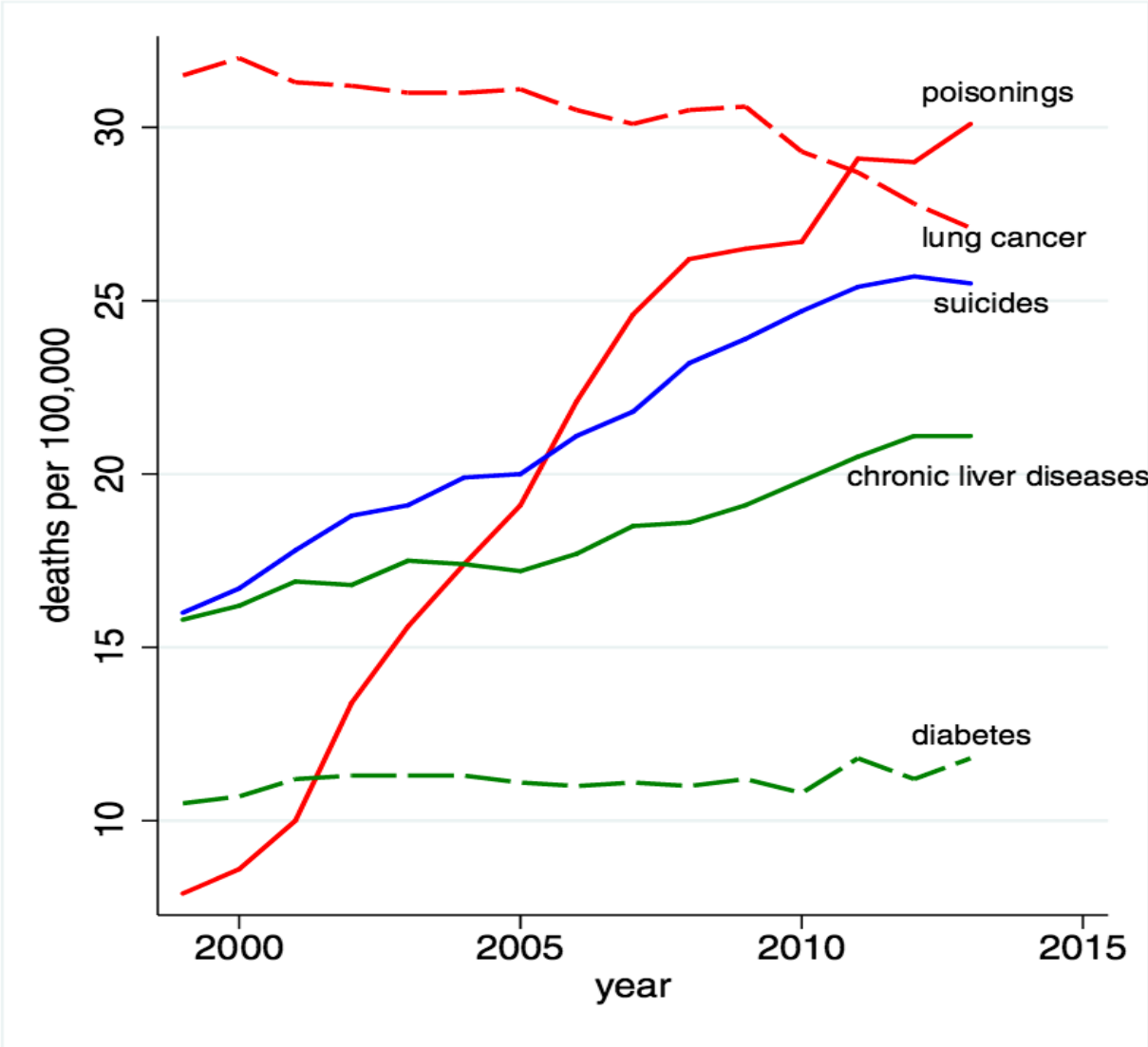
2.) United Nations: International Narcotics Control Board



All-Cause Mortality, Ages 45–54



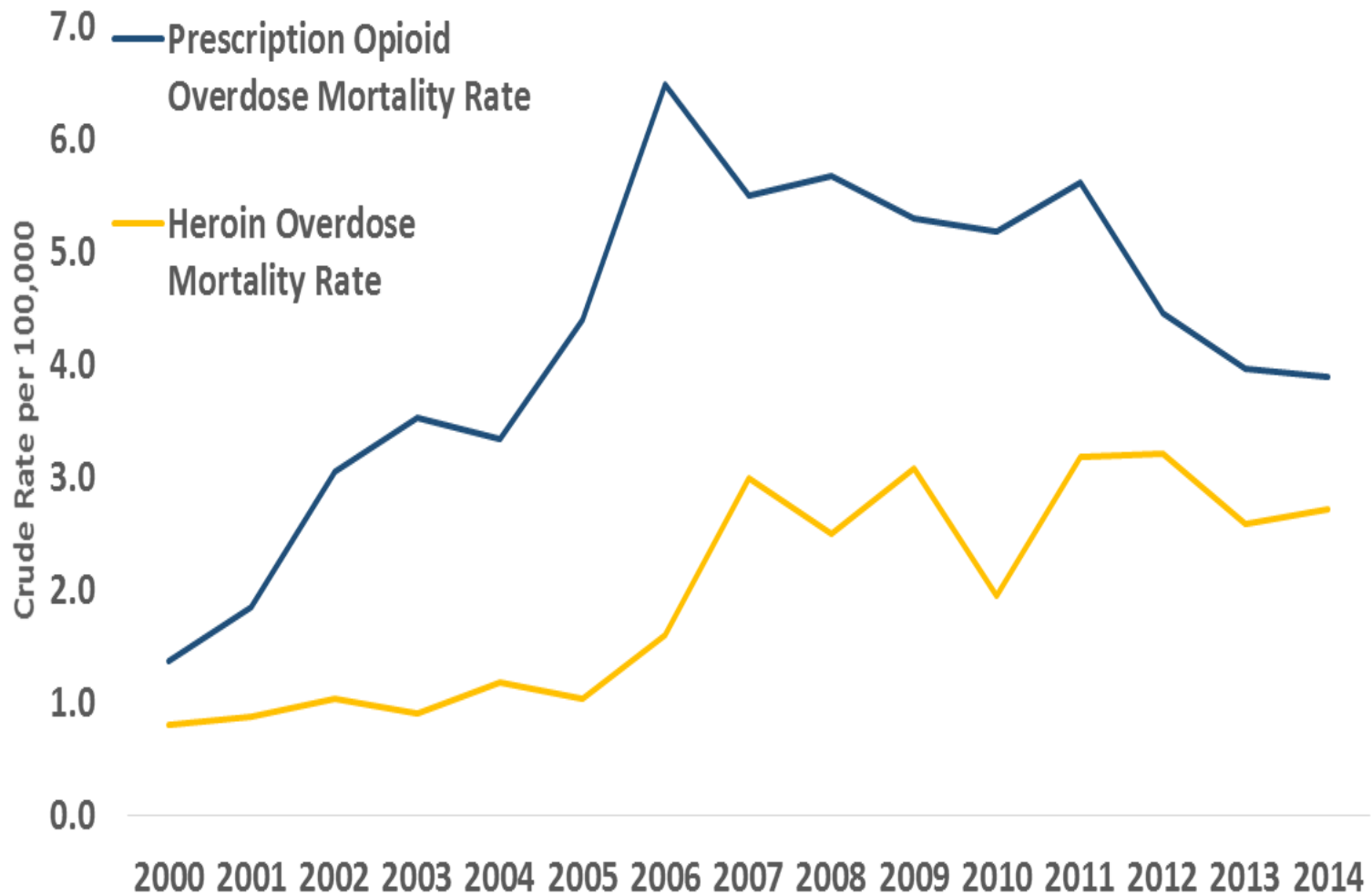
Death rates in middle-aged white Americans



Oregon Prescription Opioids: The Problem

- **Deaths in 2014**
 - 154 Oregonians died (prescription opioids)
 - Rate of opioid deaths declined 40% between 2006 and 2014
- **Hospitalizations in 2013**
 - 330 Oregonians hospitalized
 - Cost of care was \$9.1 million
 - 4,300 hospitalized patients had opioid use disorder diagnosis
- **Misuse**
 - 212,000 Oregonians (5% of population) self-reported non-medical use of prescription pain relievers in 2012-13

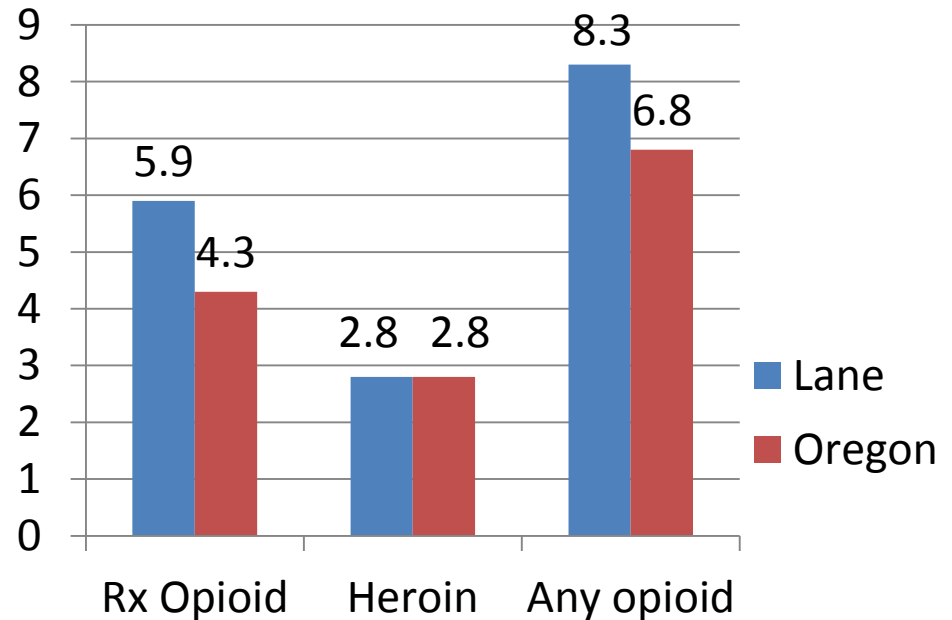
Annual Rates of Overdose Mortality, Prescription Opioids and Heroin, Oregon, 2000-2014



Opioid Deaths in Lane County

- Higher overall rate of death due to pharmaceutical opioids than heroin
- Overdose deaths seen across the lifespan but age groups most impacted:
 - 45-64 years old (9.5 per 100,000)
 - 18-44 years old (7.3 per 100,000).

Opioid Deaths, 2010-2014



Source: Oregon Health Authority

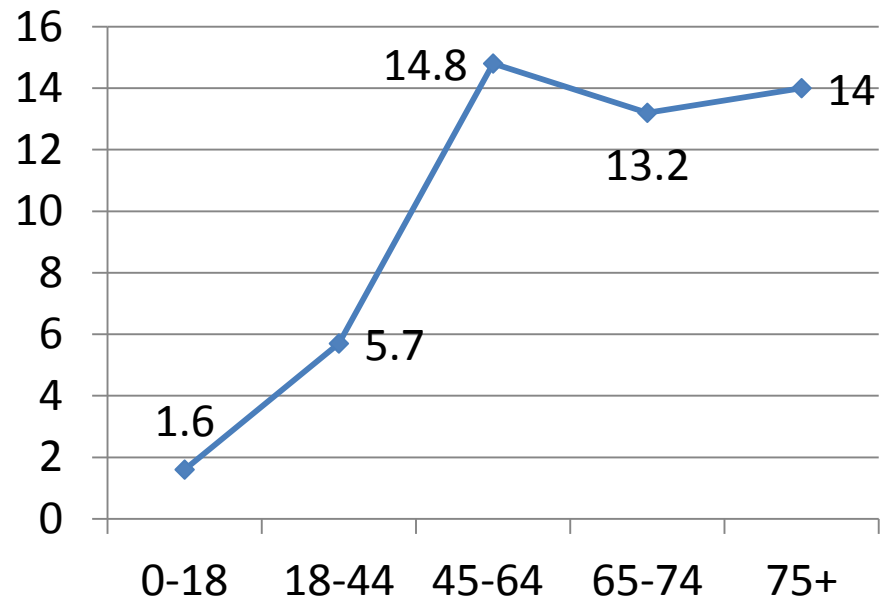


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Opioid Hospitalization in Lane County

- More people hospitalized for overdose from pharmaceutical opioid (7.9 per 100,000) than heroin (1.4 per 100,000)
- Hospitalization due to pharmaceutical opioid overdose tends to be older adults, ages 45-75+

Opioid Hospitalization Rate (per 100,000), 2010-2014



Source: Oregon Health Authority

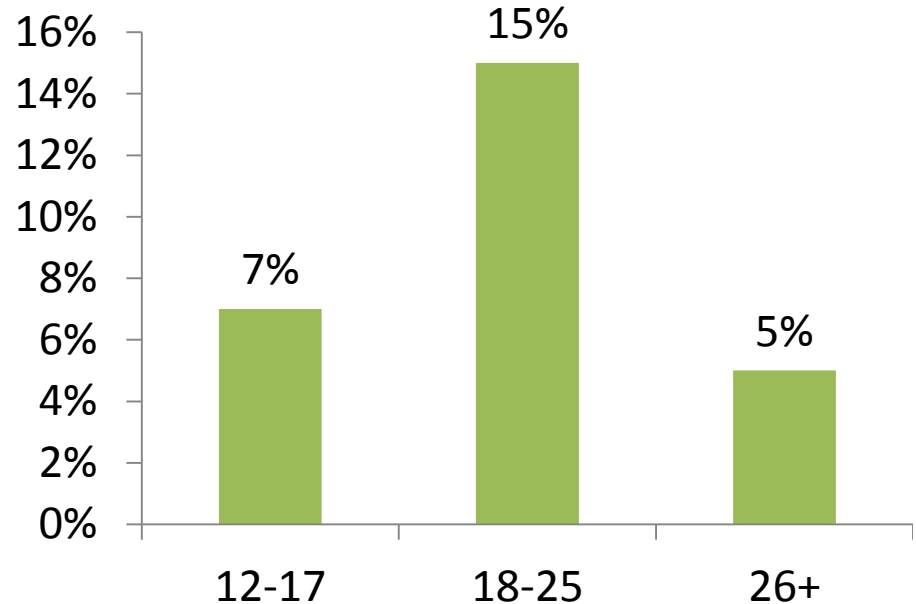


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Nonmedical Opioid Use in Lane County

- Nonmedical use of prescription opioids across lifespan, however highest risk group is 18-25 year olds.

Self-Report Nonmedical Use of Pain Relievers in Past Year by Age (percent), 2010-2012



Source: National Survey on Drug Use & Health



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Oregon Opioid Initiative Goals

- Improve Population Health
 - Decrease drug overdose deaths,
 - Decrease drug overdose hospitalizations/ ED visits
 - Decrease opioid misuse
- Improve Care
 - Improve pain management practice, including use of alternative pain therapies
 - Increase medication assisted treatment for opioid use disorder
- Decrease Health Care Costs

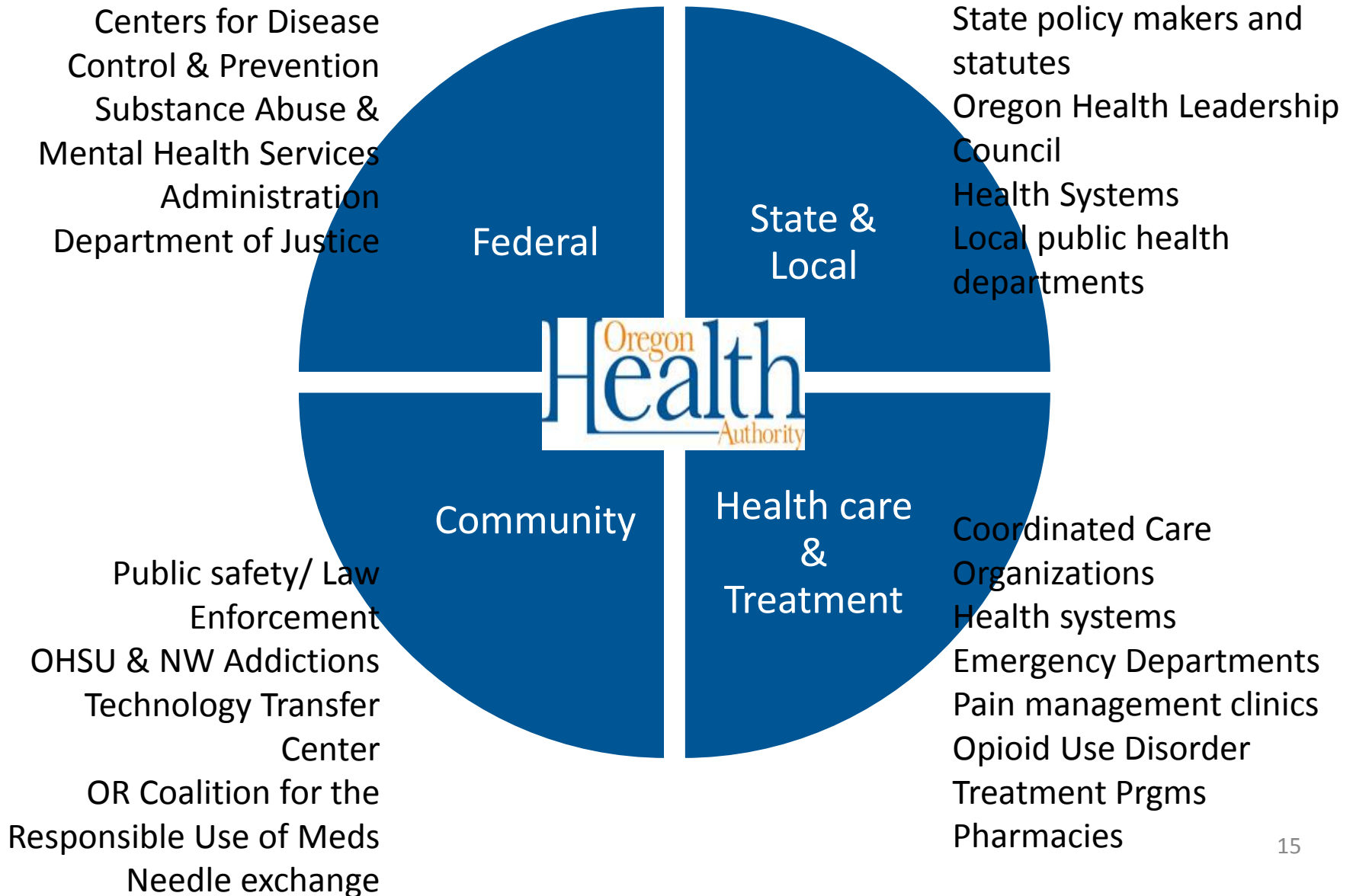
Spectrum of Interventions

- Decrease amount of opioids prescribed
- Increase availability of naloxone rescue for overdoses
- Ensure availability of treatment of opioid misuse disorder
- Use data to target and evaluation interventions

Community/ Policy

- Education of patients/ providers/ policy makers
- Provider groups to develop best-practices in local area
- Statutory changes:
 - PDMP: incorporate into EDIE; use for public health practice/ research; automated notifications
 - Naloxone prescribing by pharmacists

Oregon Opioid Initiative Partnerships



Acknowledgments

- Katrina Hedberg MD, MPH: OHA
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