
Update on HCV and other infections related to injection drug use

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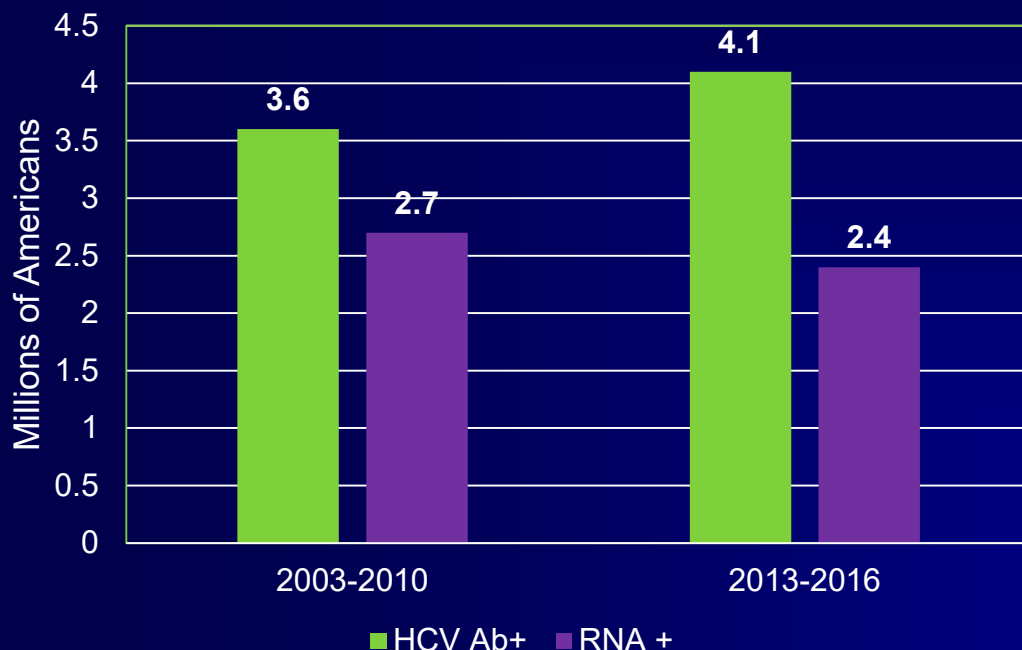
Oregon
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Overview

- Update on NHANES prevalence data
- Trends in HCV, HIV and syphilis in OR
- Other health indicators in PWIDs
- HCV screening and treatment

Prevalence of HCV in the US NHANES, 2003-10 vs 2013-16*



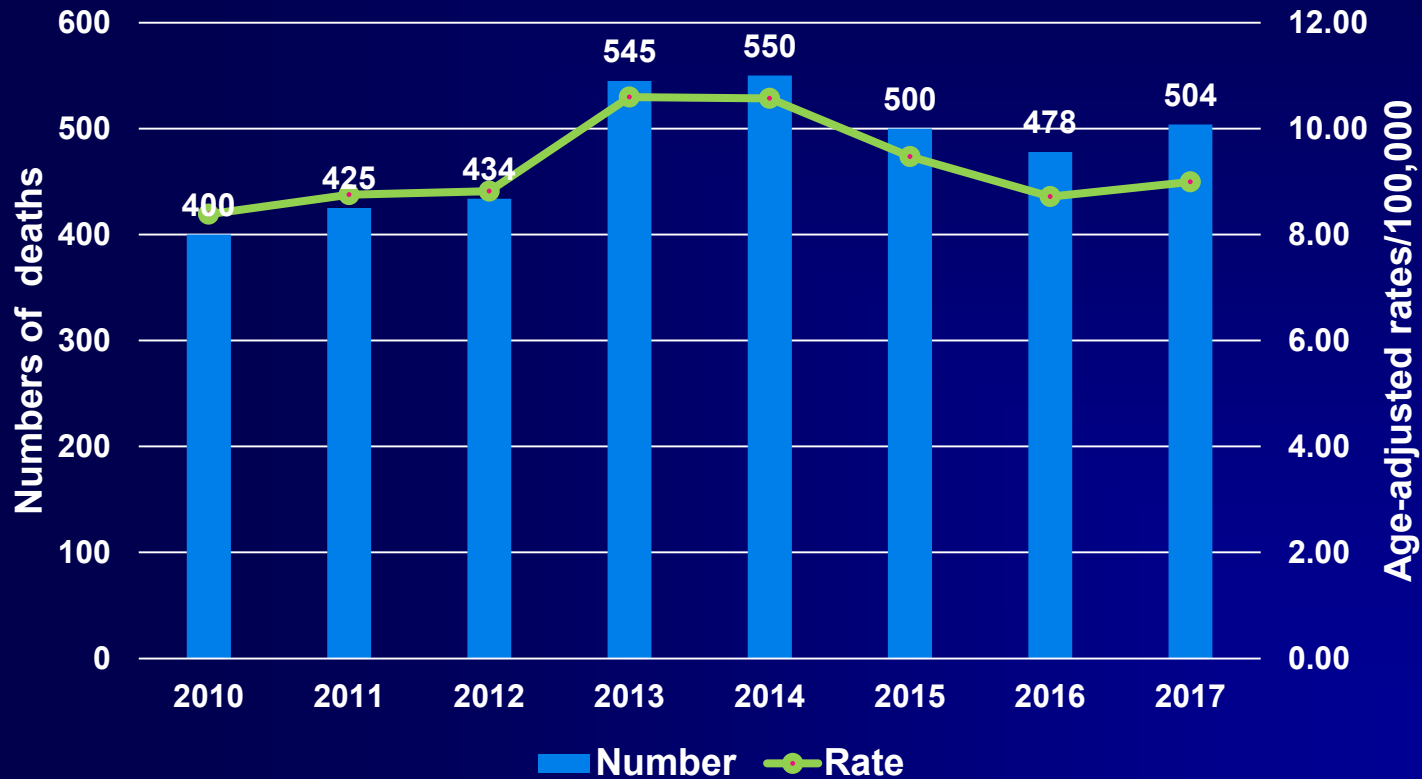
*2013-16 estimates include:

- incarcerated individuals
- nursing home residents
- unsheltered homeless
- active-duty military

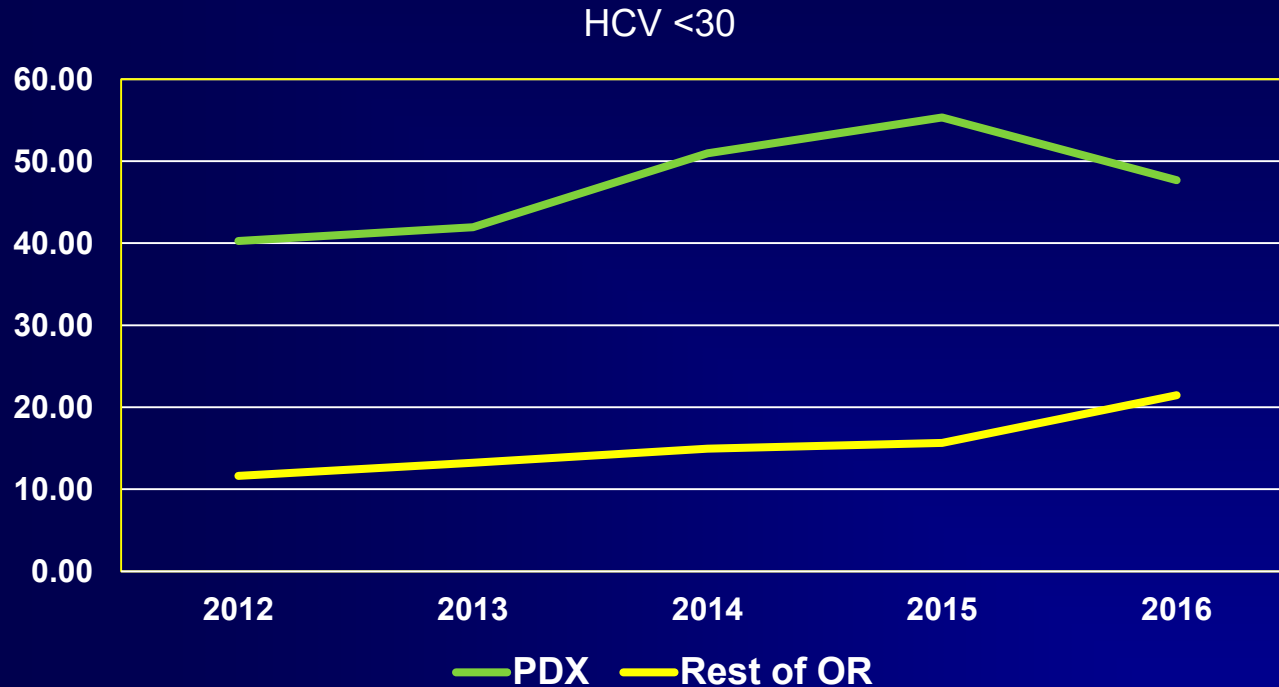
Denniston, et al. Ann Int Med 2014;160:293-300

Hofmeister, et al. Hepatology <https://doi.org/10.1002/hep.30297>

Numbers and age-adjusted rates of HCV-related deaths, Oregon 2010-2017

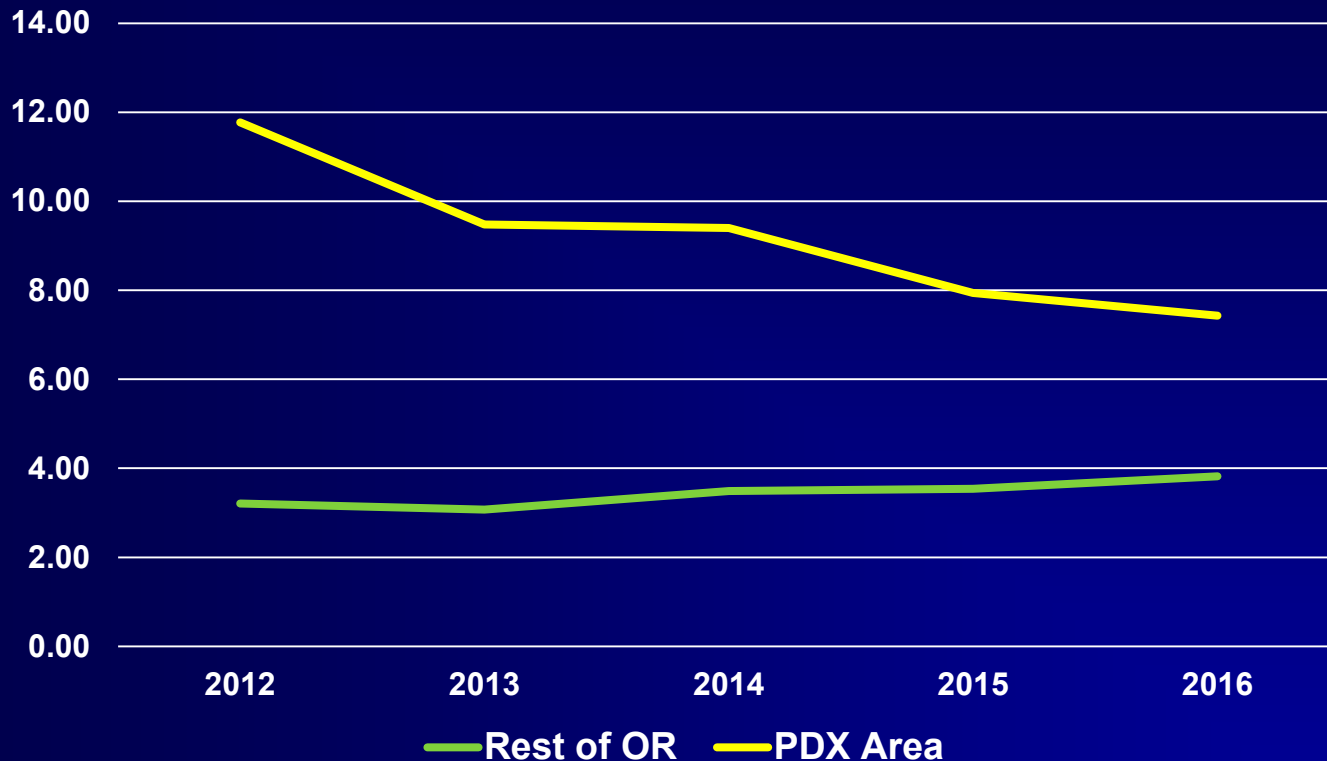


Rates of Chronic HCV cases in persons < 30, Oregon, 2012-2016



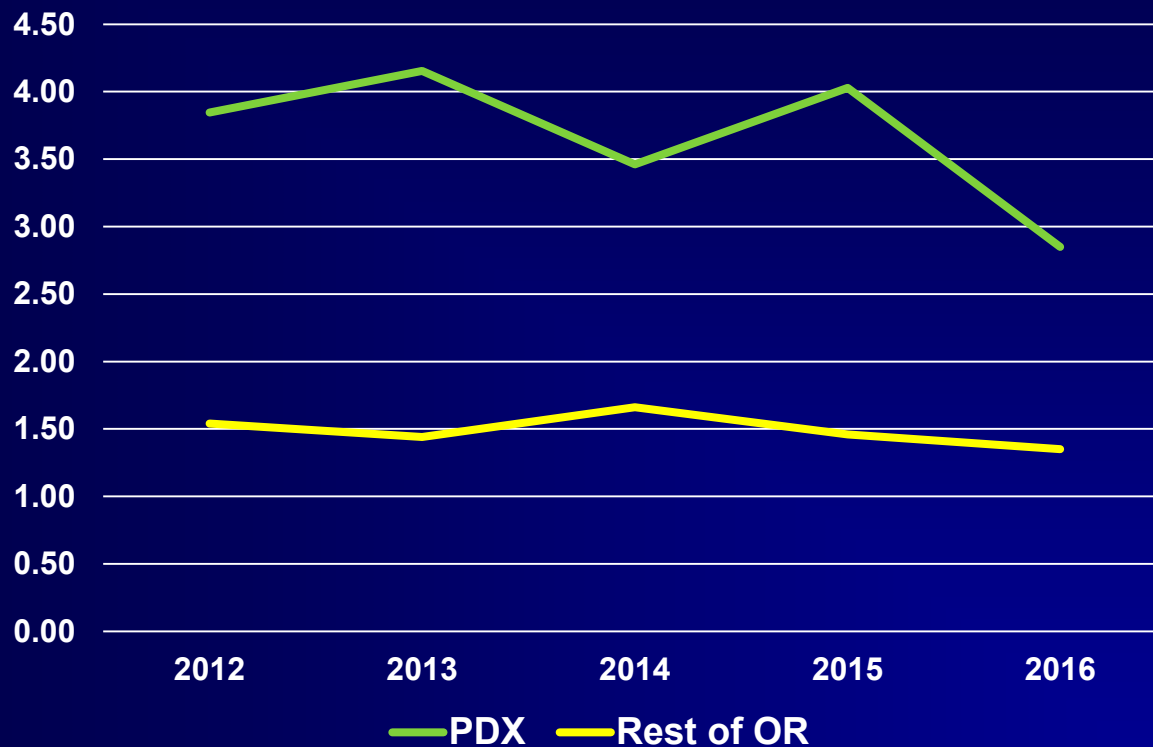
- 53% increase in cases under 30 years of age

Rates of new HIV diagnoses in Oregon 2012-2016



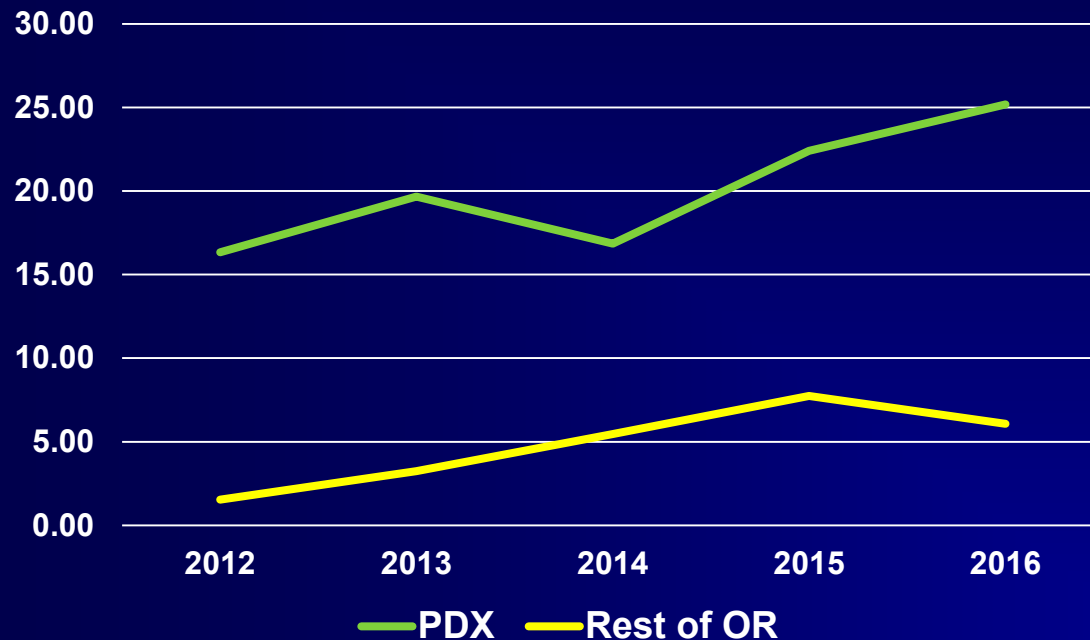
- 18% drop in cases statewide between 2012 and 2016

Rates of HIV deaths, Oregon 2012-2016



- 17% drop in deaths statewide between 2012 and 2016

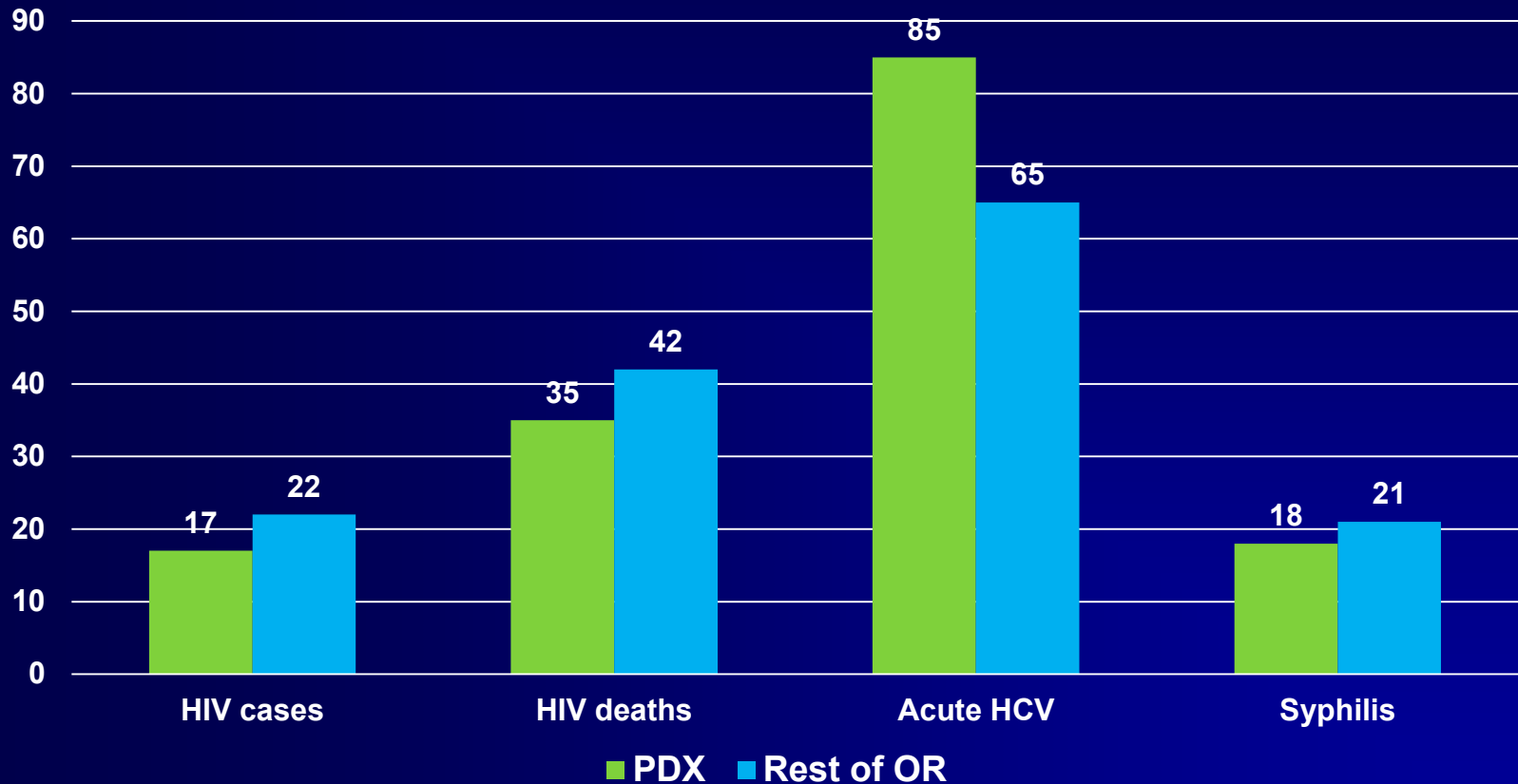
Rates of early syphilis Oregon, 2012-2016



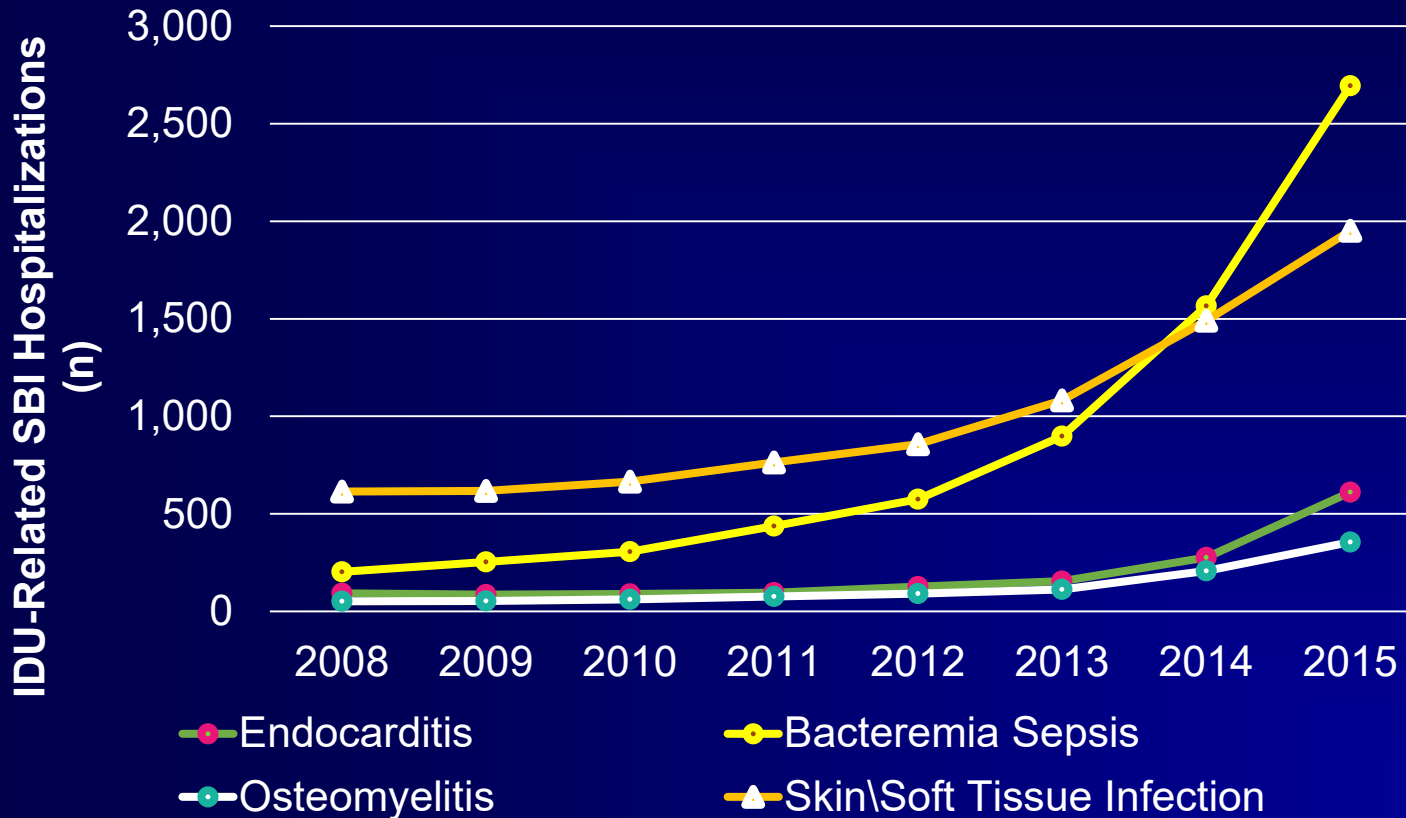
Year	Congenital Syphilis Cases
2013	0
2014	2
2015	6
2016	6
2017	8
2018	11

- 91% increase statewide, from 310 cases to 591 cases

Proportion of cases reporting injection drug use, Portland area vs rest of Oregon, 2012-16



Hospitalizations due to IDU-related bacterial infections, by infection type, Oregon

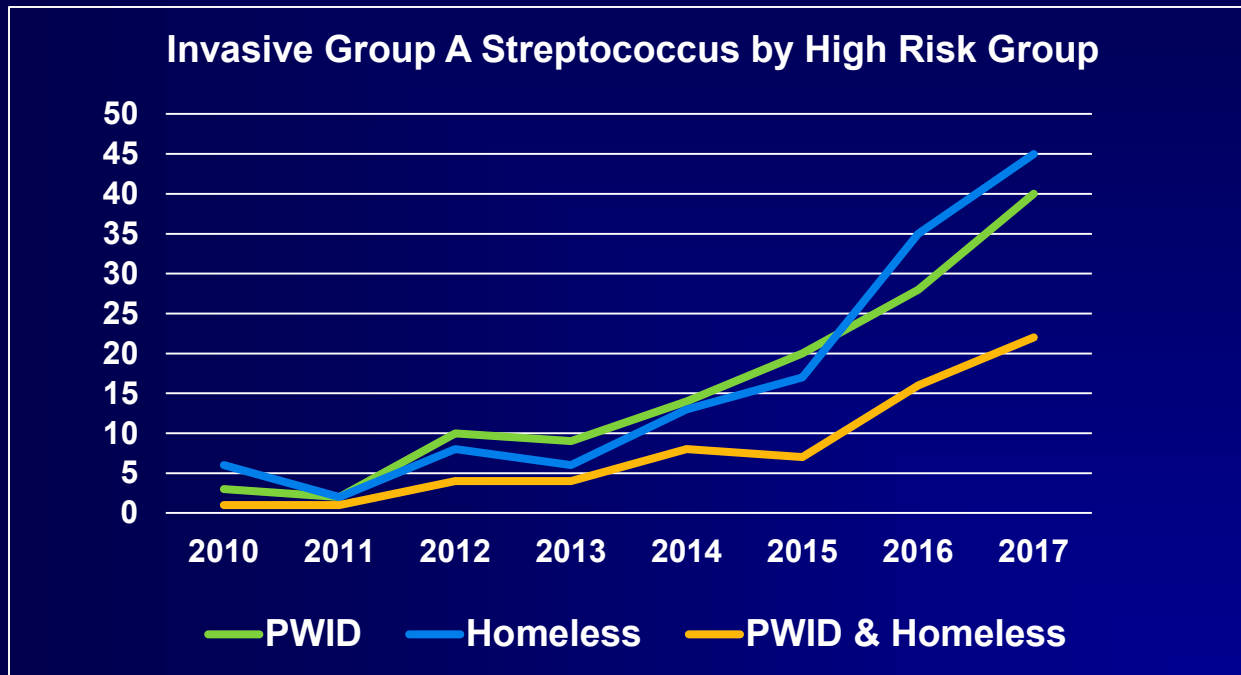


Total annual costs* of IDU-related SBI Hospitalizations, Oregon



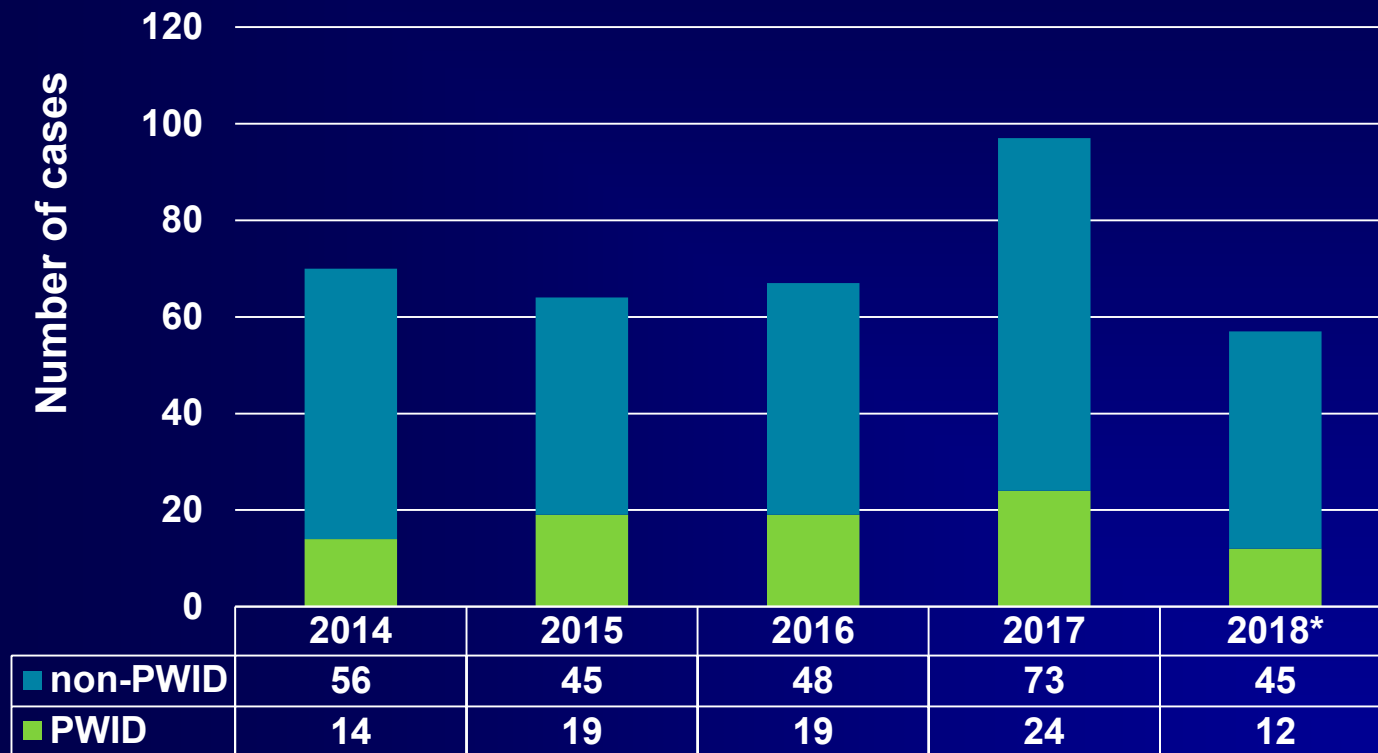
**Adjusted for charge-to-cost and inflation (2015 USD)*

Increases in numbers of cases of GAS, Portland Tricounty area, 2010-2017



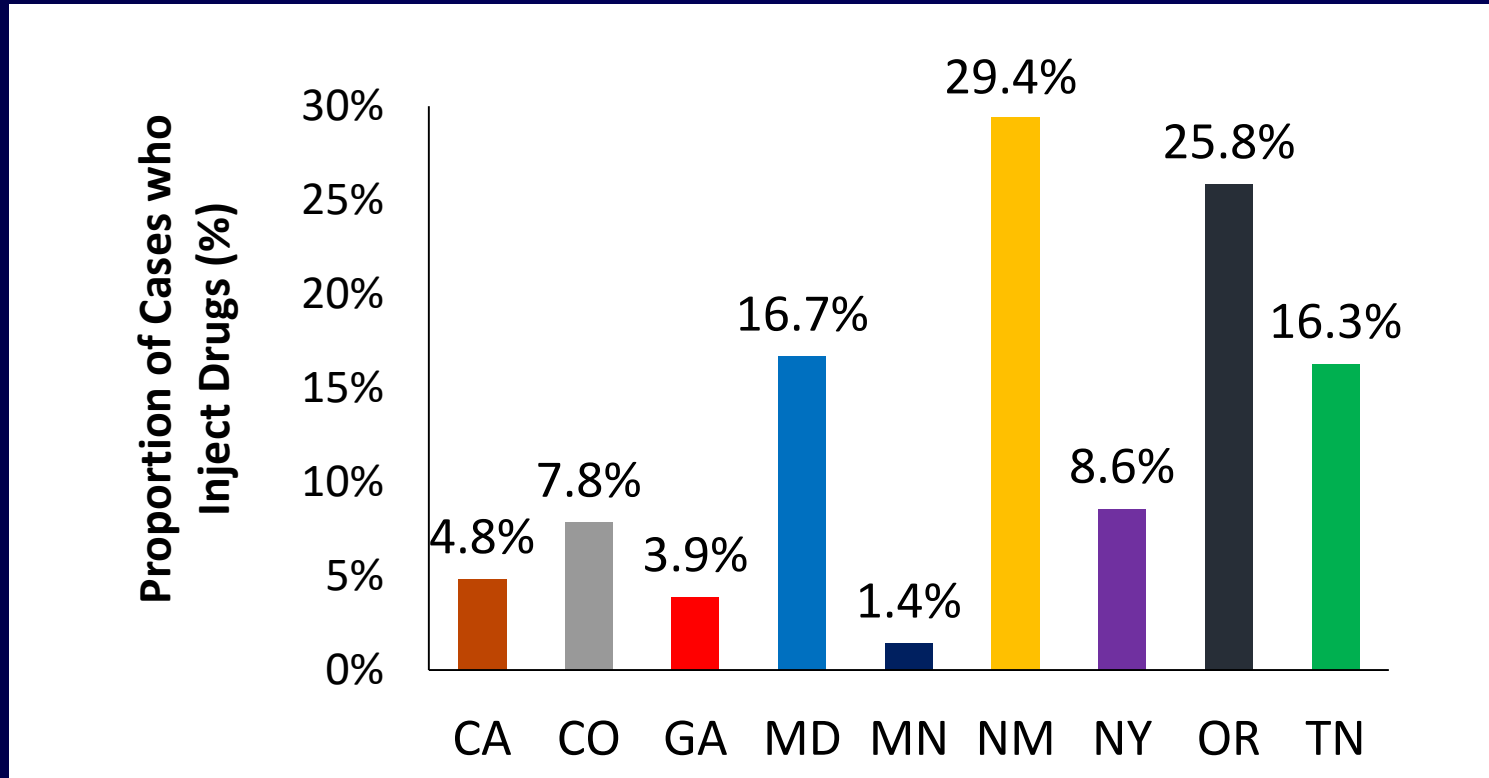
In 2017, 57% of cases of invasive GAS were either PWID, PEH or both

Numbers of cases of candidemia, Portland Tricounty area, 2014-18



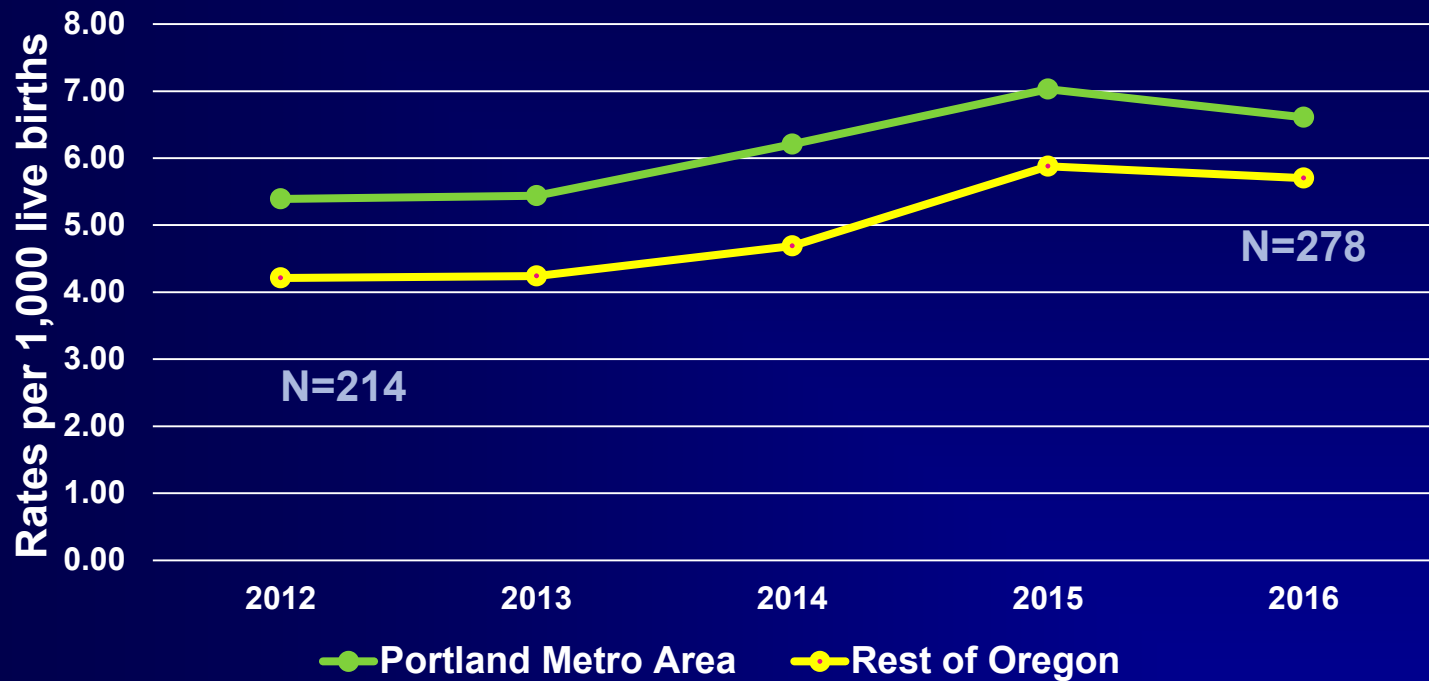
**2018 data collection incomplete*

Percent of candidemia cases in PWID by surveillance site, 2017, n=1221



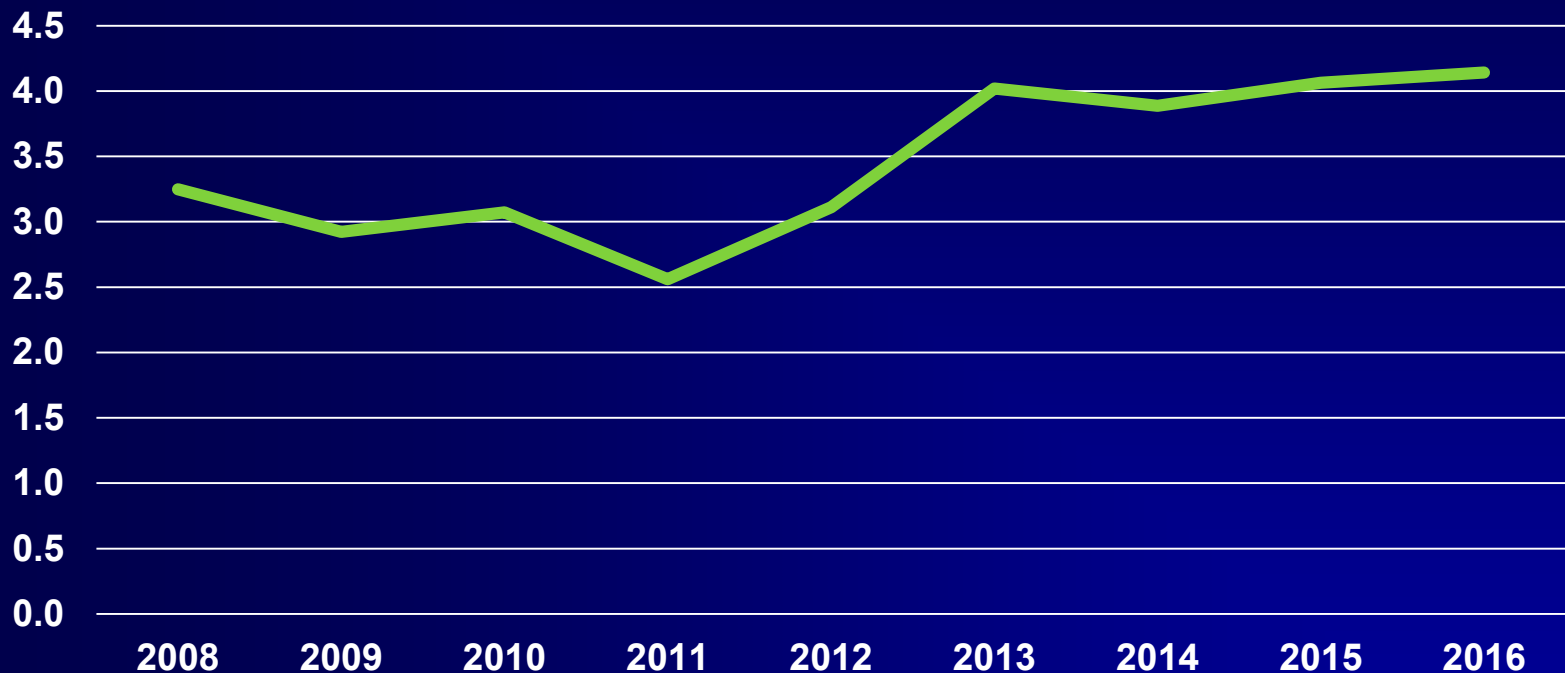
Overall proportion in PWID = 10.5%

Rates of Neonatal Abstinence Syndrome (NAS) per 1,000 live births, Oregon, 2012-16



- 37% increase in rates between 2012 and 2016

Rate of women with HCV reported on birth certificate (per 1,000 live births) Oregon 2008-2016

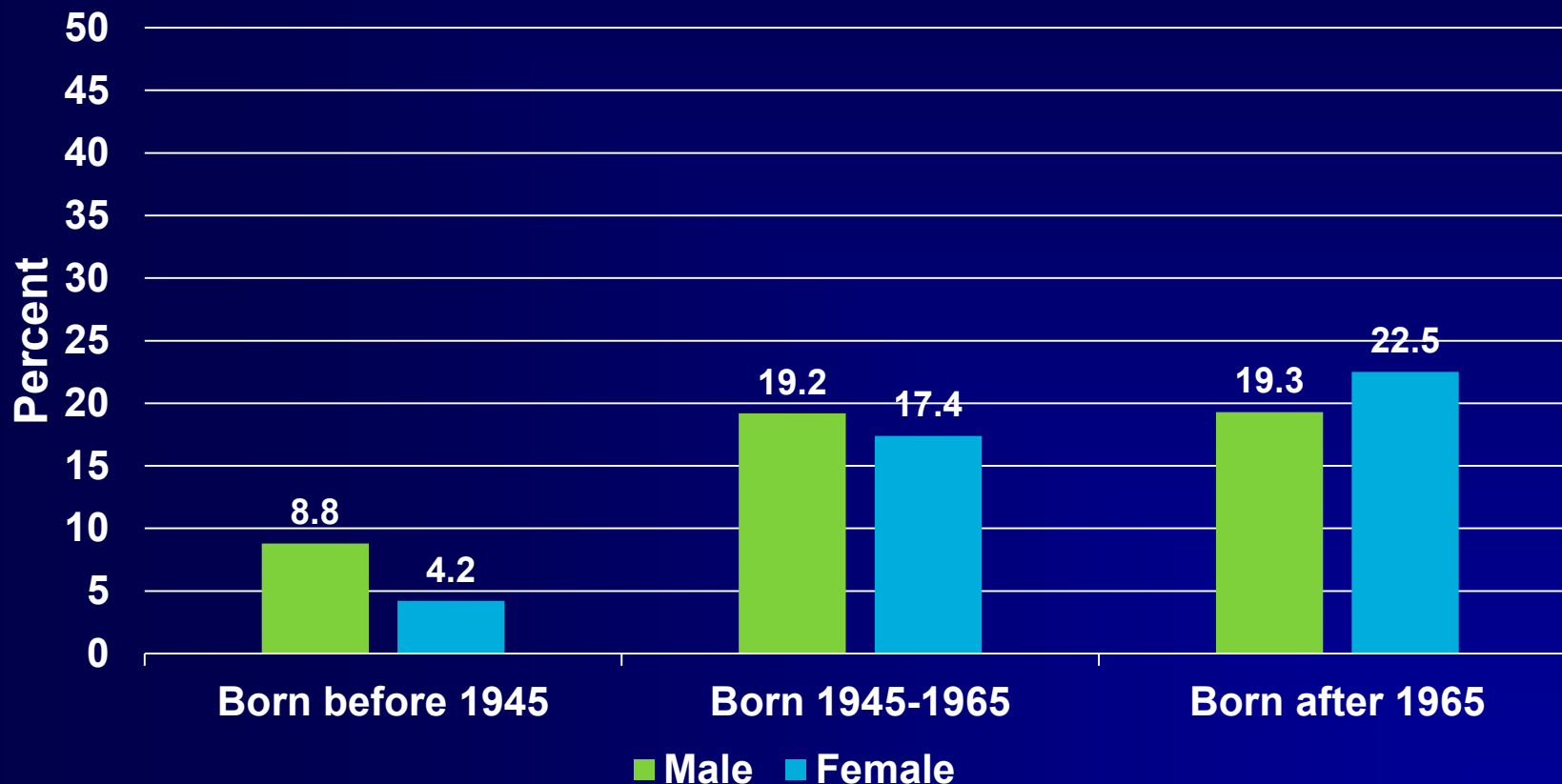


Baby Boomer Screening

- In 2012, CDC implemented recommendation for one-time screening of individuals born between 1945 and 1965
- National Health Interview Survey estimated that only 13.8% had been screened in 2015 in the US, 3 years after the CDC and the US Preventive Services Taskforce made the recommendation

Jemal. Am J Prev Med 2017;53:e31-e33

Proportion of persons ever tested for HCV by age group and gender, Oregon 2017



Severe Outcomes of HCV, Oregon Medicaid Patients, 2009-13

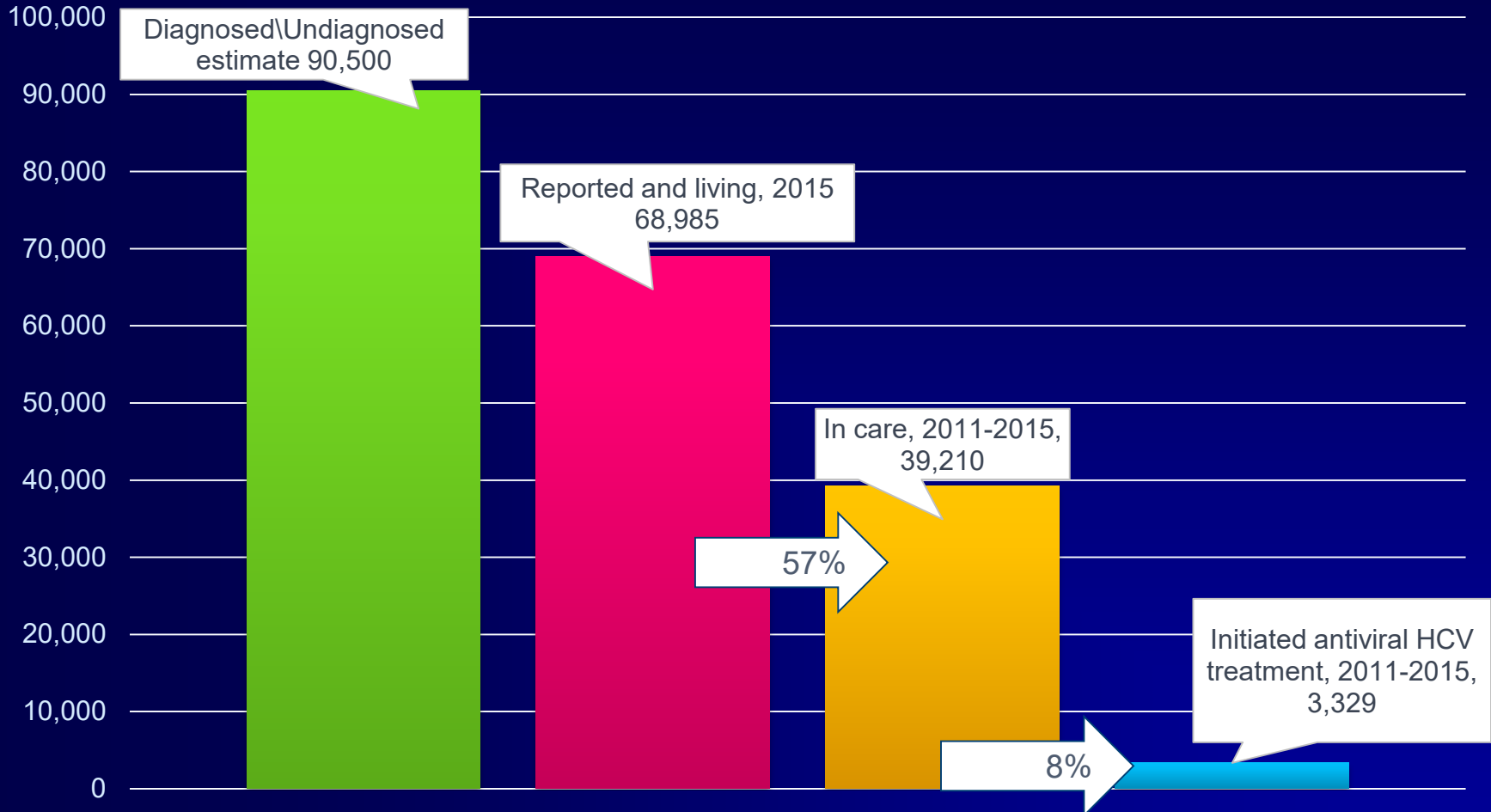
- Identified cohort of Oregon residents with HCV enrolled in Medicaid at least 12 mos
- Cross-matched data set with hospital discharge, OSCaR, and death certificate databases
- Estimate incidence of advanced liver disease (hospitalization with cirrhosis, varices, hepatic encephalopathy, etc), liver cancer, and deaths (underlying cause of death=HCV or advanced liver disease)

Severe Outcomes of HCV, Oregon Medicaid Patients, 2009-13

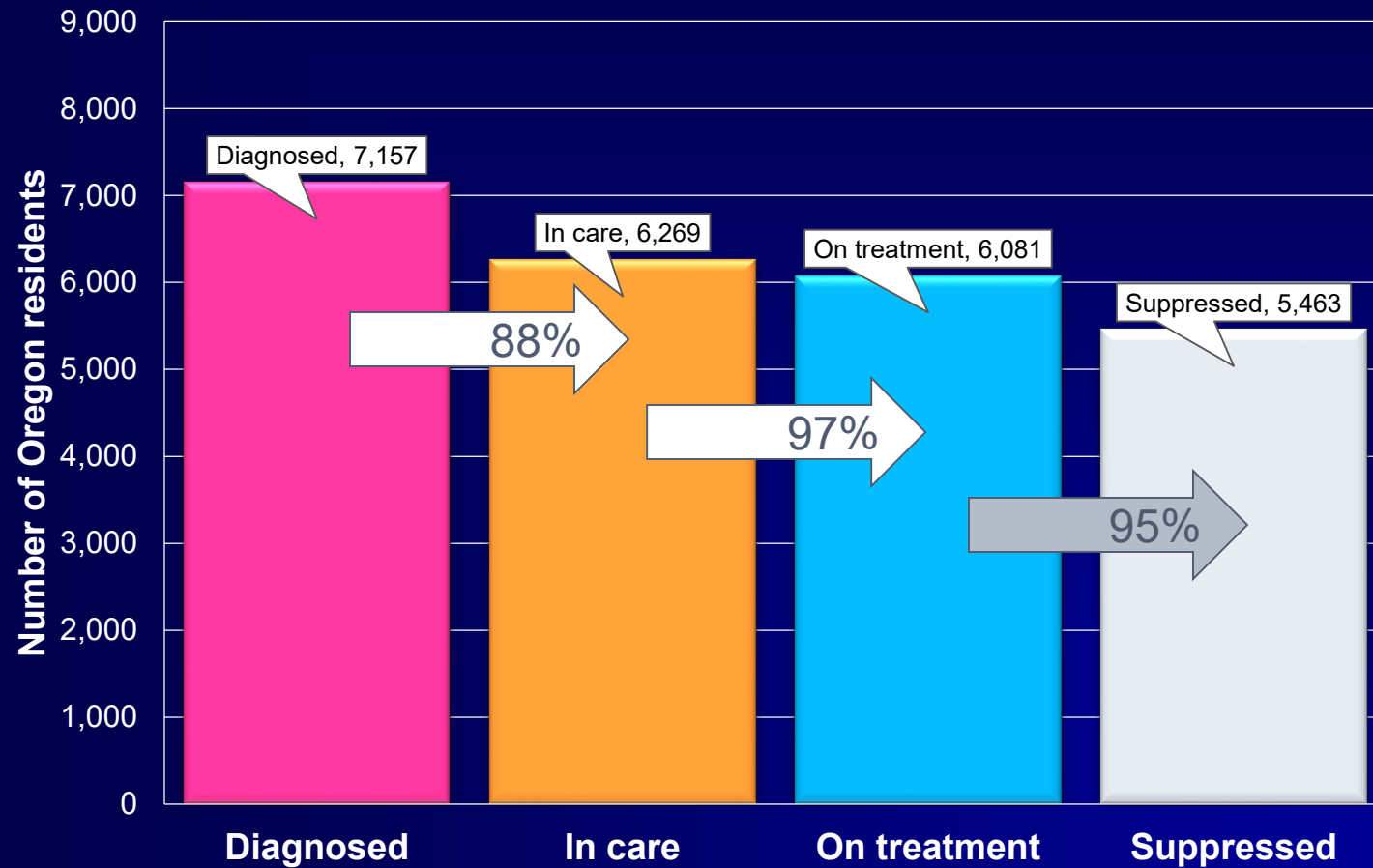
- Of 11,790 Medicaid beneficiaries with HCV:
 - 156 (1.3%) with hepatocellular carcinoma
 - 596 (5.1%) initial hospitalizations for advanced liver disease
 - 474 (4.0%) HCV-related deaths
- Only 262 (2.2%) ever initiated treatment with antivirals

Jindai. *Public Health Reports*:<https://doi.org/10.1177%2F0033354918813552>

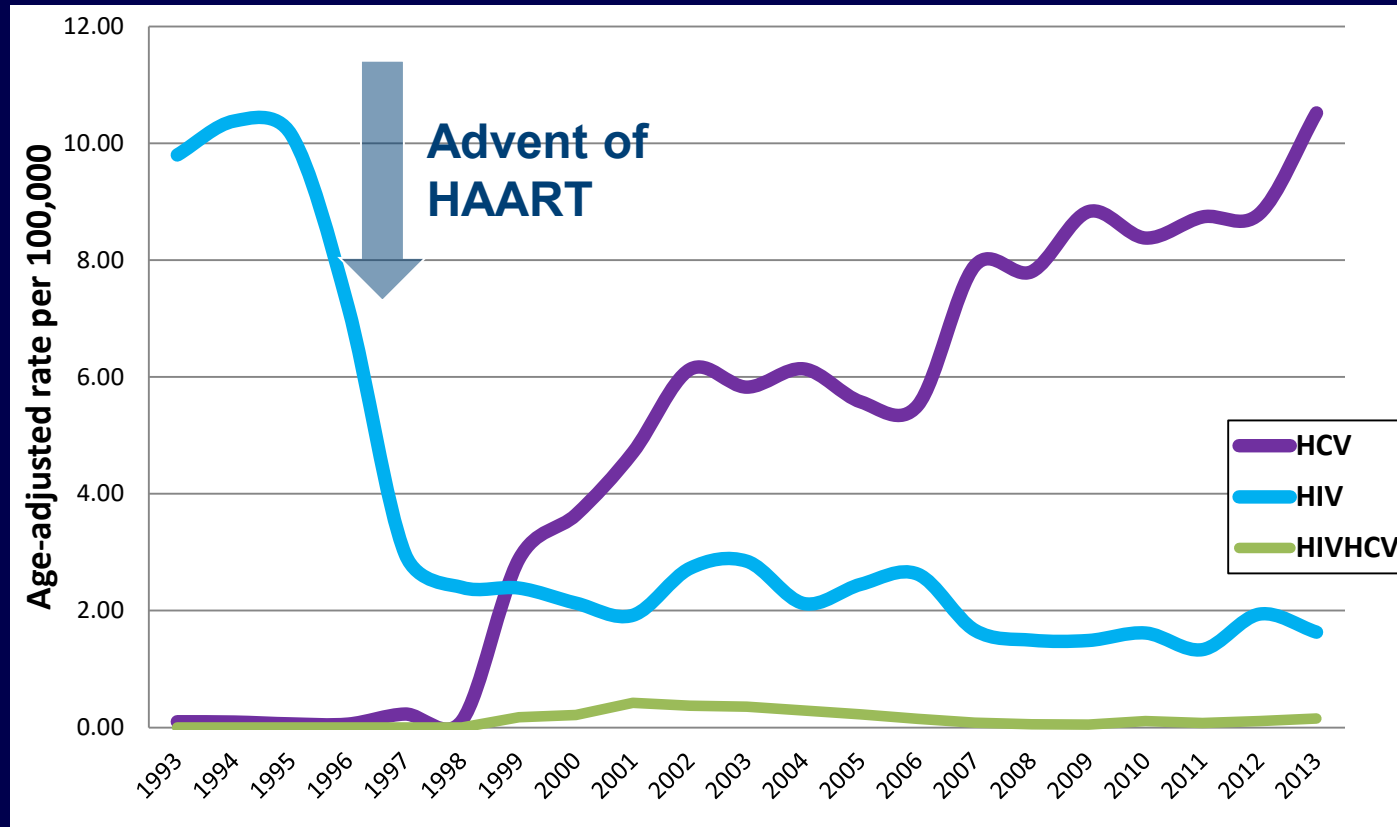
HCV Care Continuum, Oregon 2015



Oregon HIV Care Continuum, 2016



Age-adjusted Death Rates for HCV and HIV, Oregon, 1993–2013



How antiretroviral treatment changed the curve for HIV

Summary

- Increasing burden of infectious diseases among PWIDs
- ***But***, Oregon has new opportunity to make a difference in trajectory of HCV epidemic
- ***Still***, need to work to improve availability of harm reduction services, SEP, MAT, naloxone, wound care services

Questions

1 in 25 baby boomers has **Hep C.**

GET TESTED

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