



ALASKA HEPATITIS C ELIMINATION

Hepatitis C / Substance Use Disorders Training

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State of Alaska Department of Corrections
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DISCLOSURES

Robert Lawrence, MD is currently the Chief
Medical Officer for the State of Alaska
Department of Corrections

He has no conflicts of interest to report



OBJECTIVES

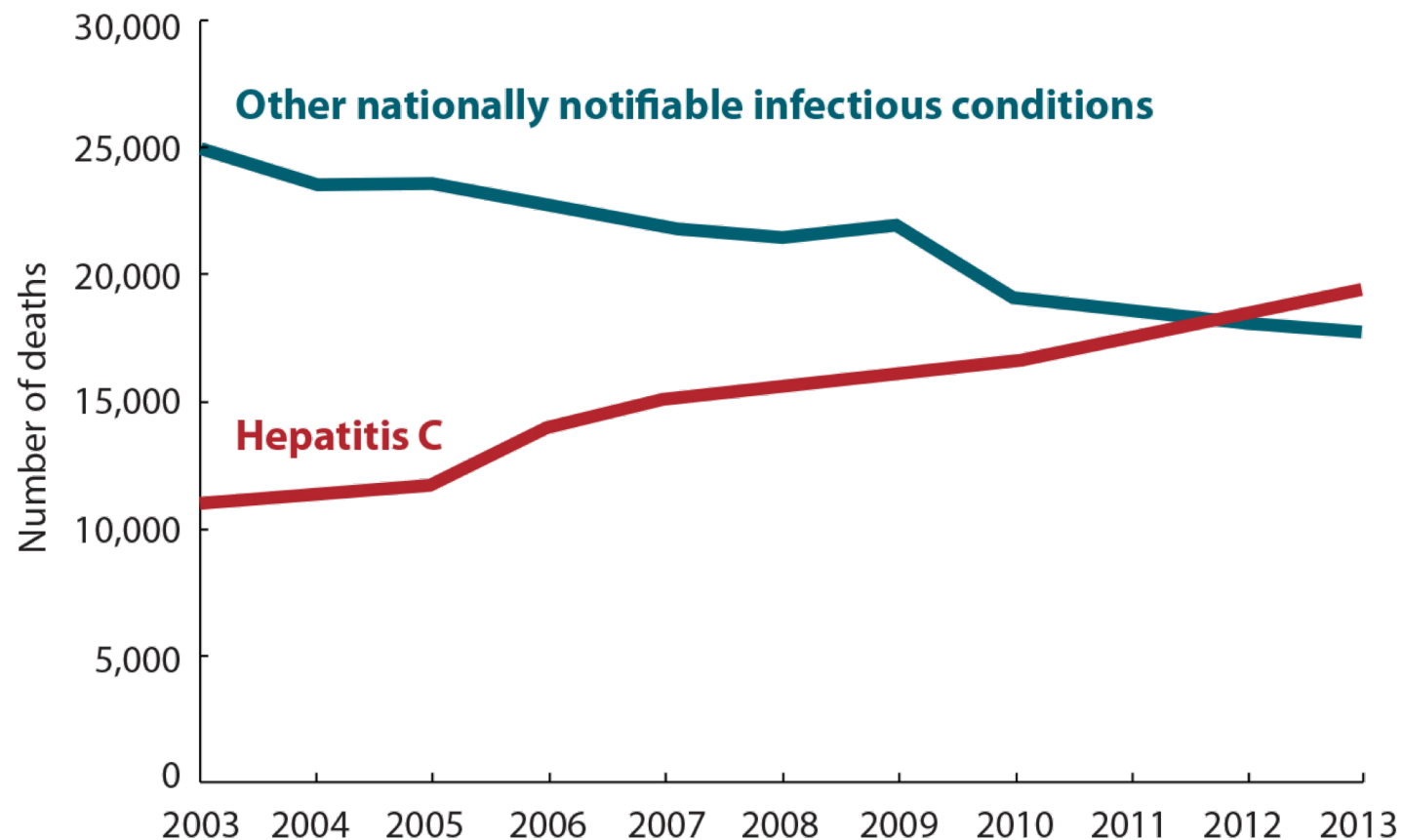
1. Recognize the gravity of Hepatitis C as a communicable infectious disease
2. Identify the populations in Alaska where HCV infections are concentrated and spreading
3. Review key components of eliminating HCV in Alaska





Annual number of hepatitis C-related deaths vs. other nationally notifiable infectious conditions in the US, 2003-2013

Hepatitis C is the Deadliest Communicable Disease in the United States

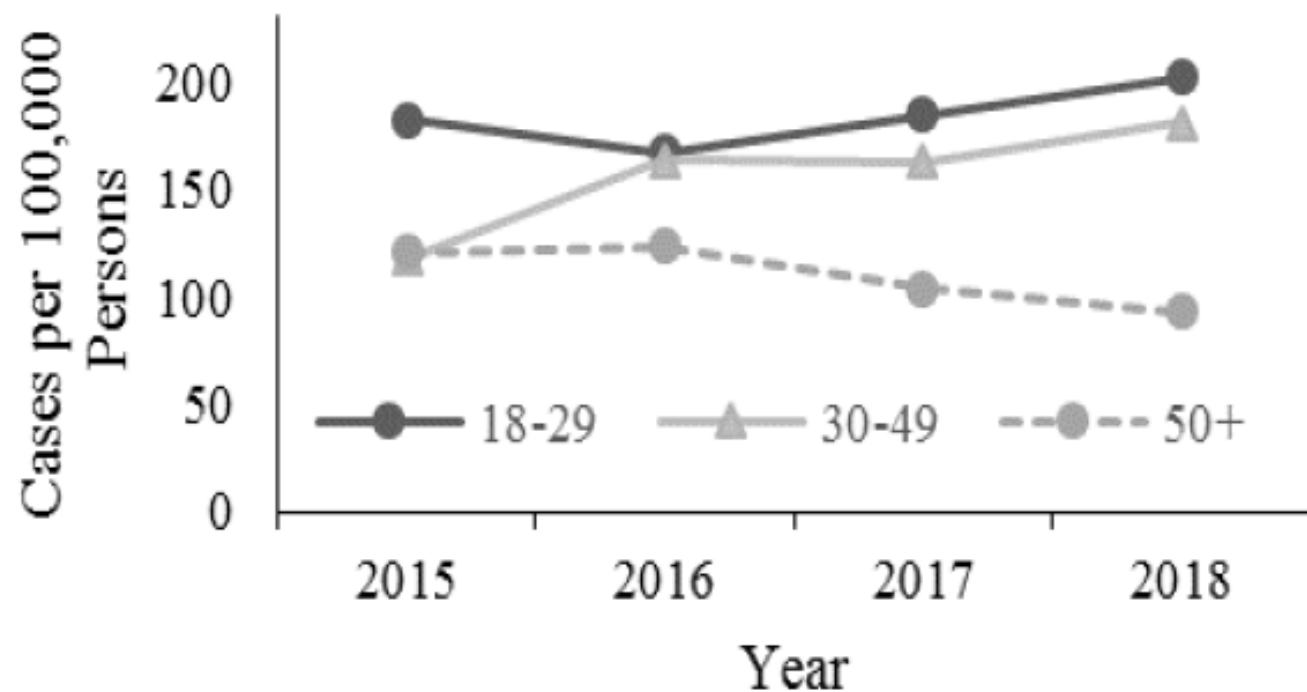


Source: Centers for Disease Control and Prevention



Hepatitis C in Alaska

Figure. Rate of Newly Reported Confirmed Hepatitis C Cases, by Age Group (in Years) and Year — Alaska, 2015–2018

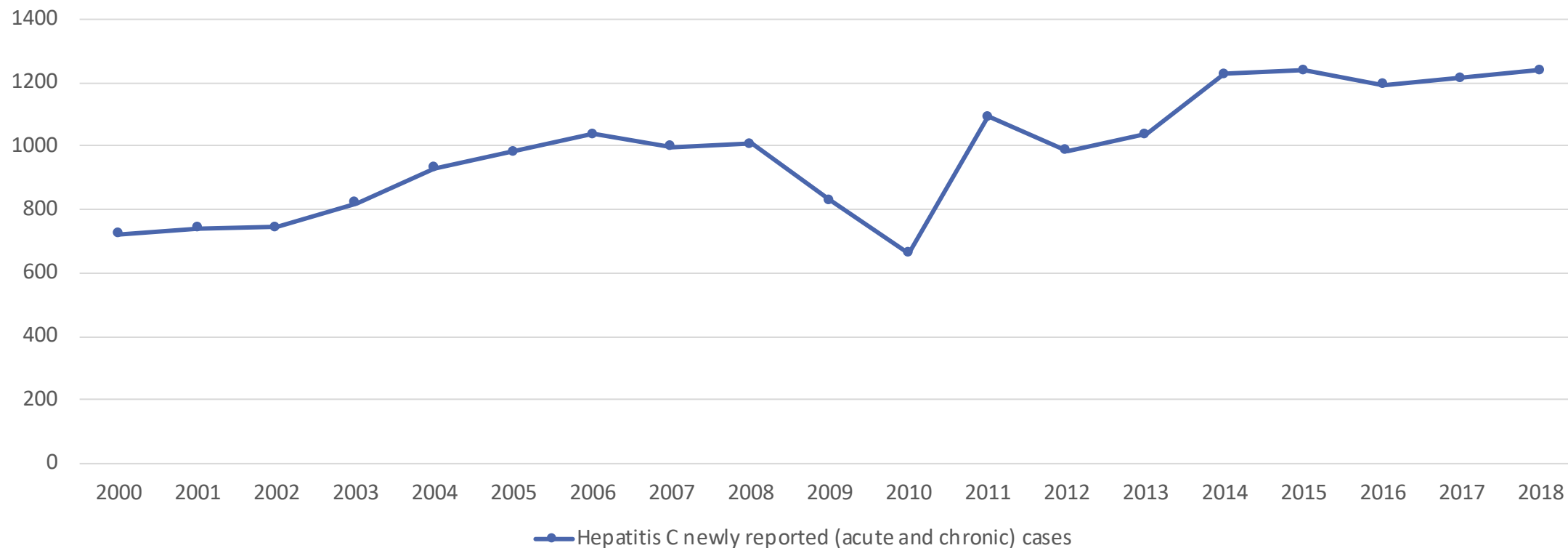


Source: State of Alaska Epidemiology Bulletin No. 15 August 21, 2019

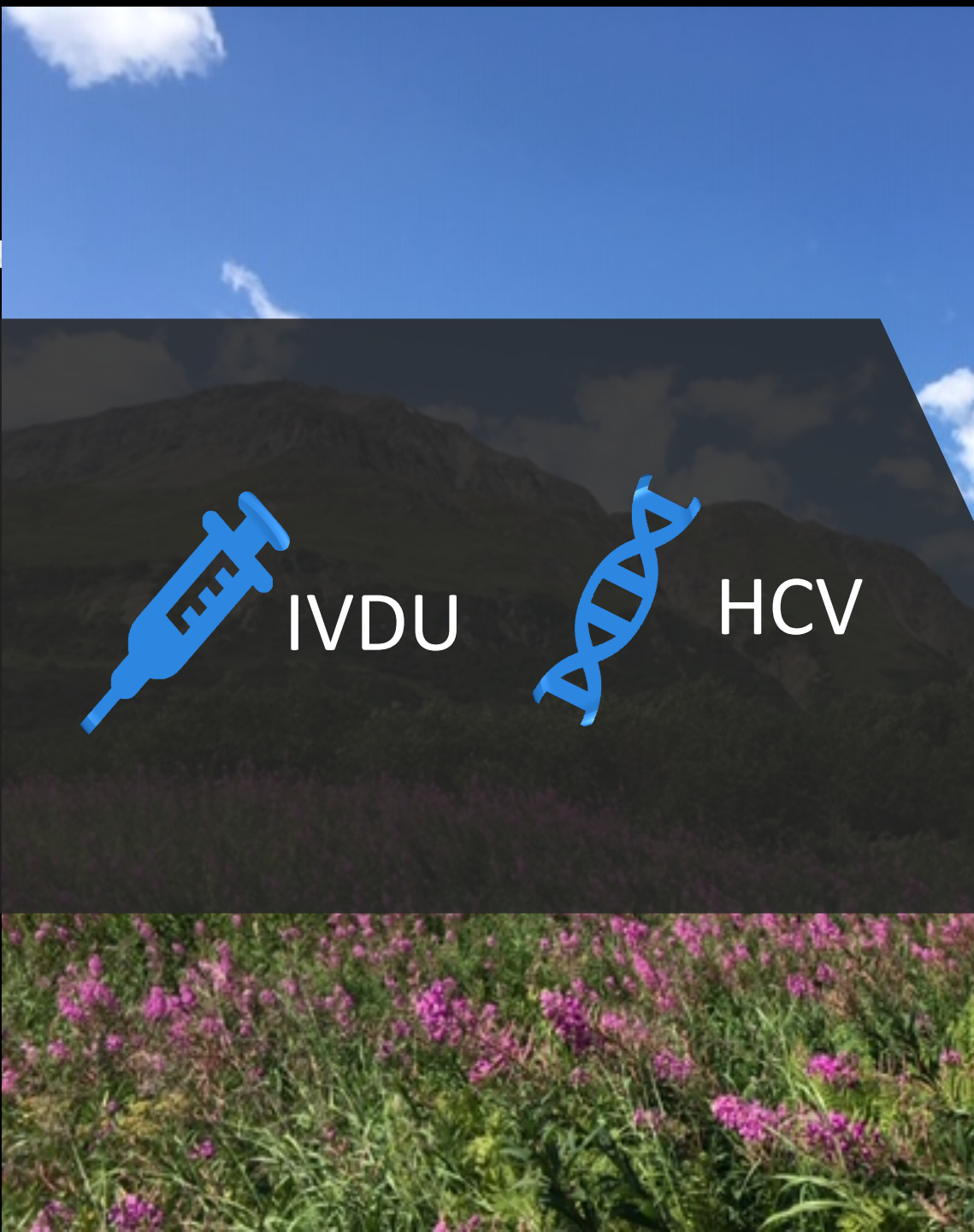


ANNUAL REPORTED CASES OF HEPATITIS IN ALASKA

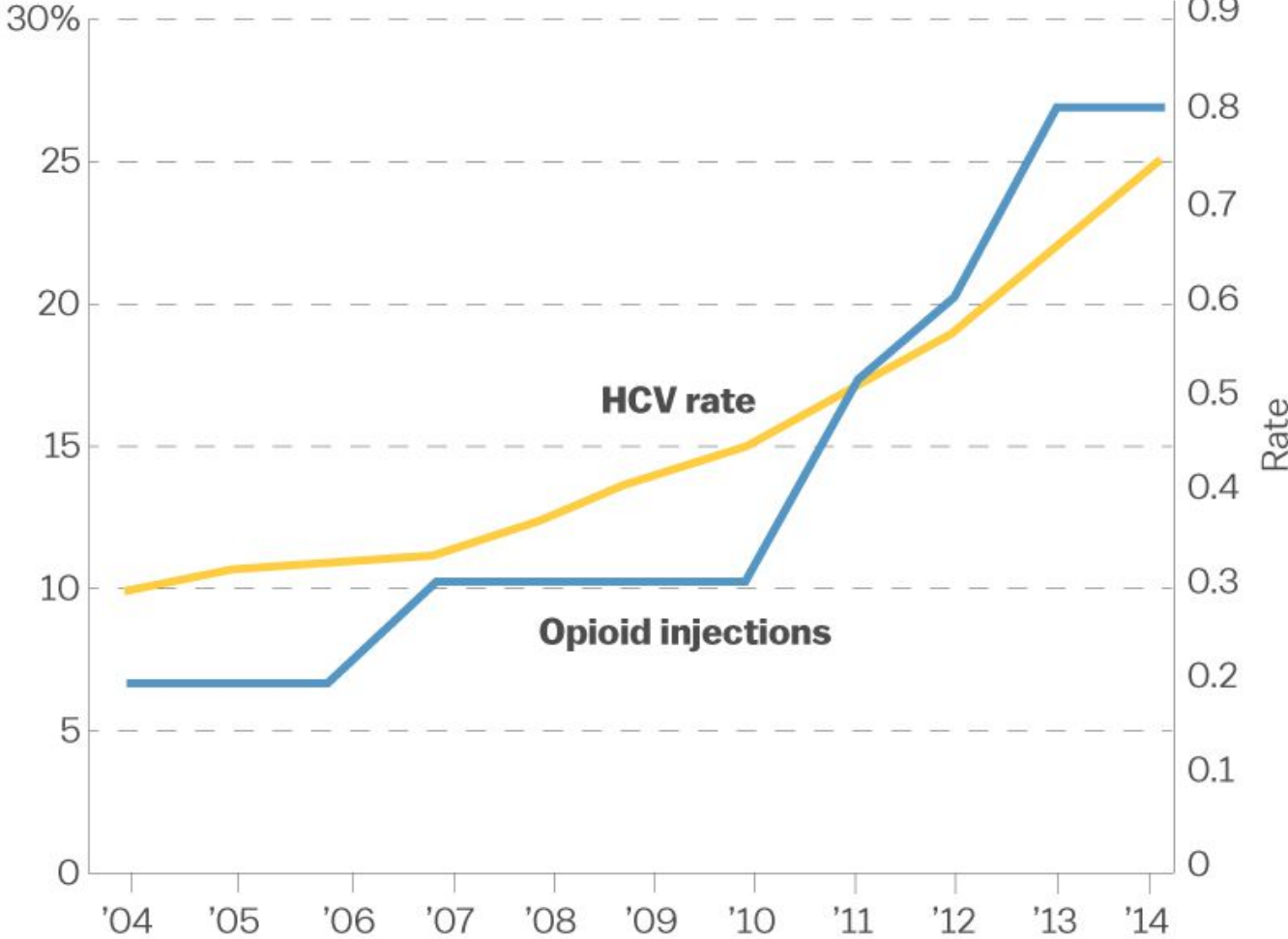
Hepatitis C newly reported (acute and chronic) cases



Source: AK Dept of Health and Social Services Section of Epidemiology- Sept 2019



Hepatitis C and opioid injections are rising fast among white Americans



Note: Non-Hispanic
SOURCE: CDC and SAMHSA





National Trends in Hepatitis C Infection by Opioid Use Disorder Status Among Pregnant Women at Delivery Hospitalization — United States, 2000–2015

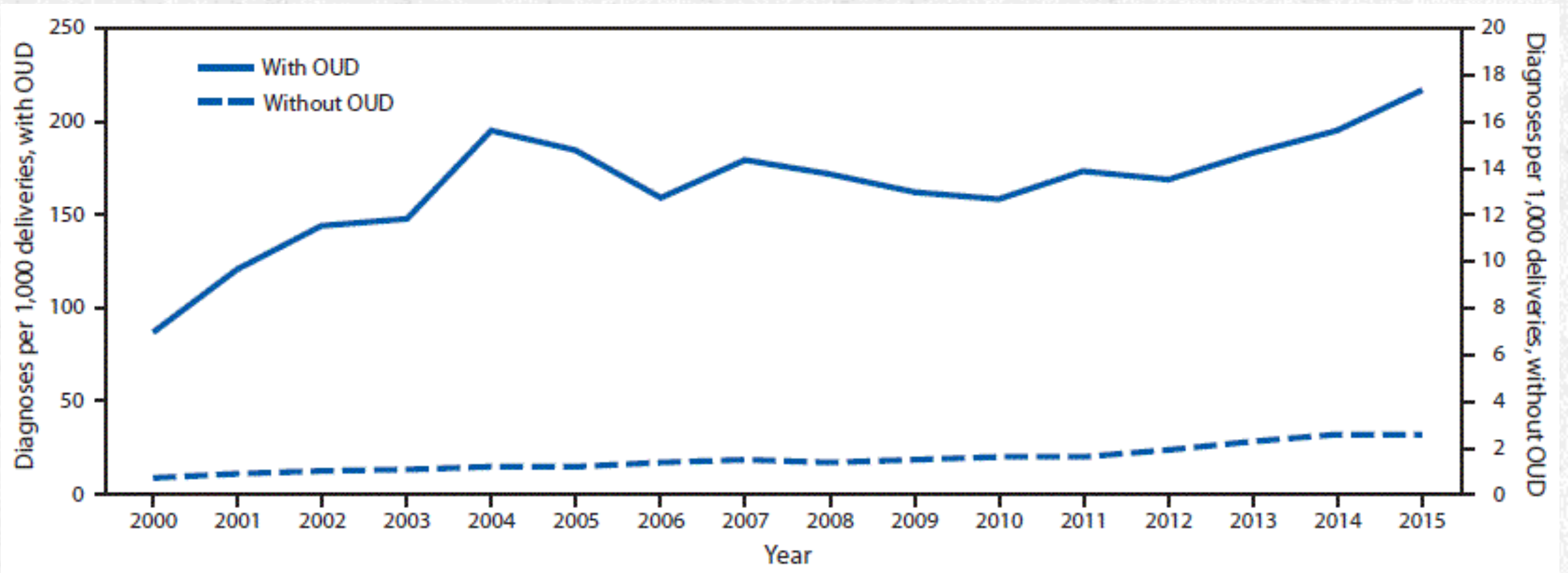


FIGURE. National prevalence* of maternal hepatitis C virus (HCV) infection per 1,000 delivery hospitalizations, by opioid use disorder (OUD) status, 2000–2015† Source: CDC; MMWR Weekly / Oct 4, 2019 / 68(39);833-838



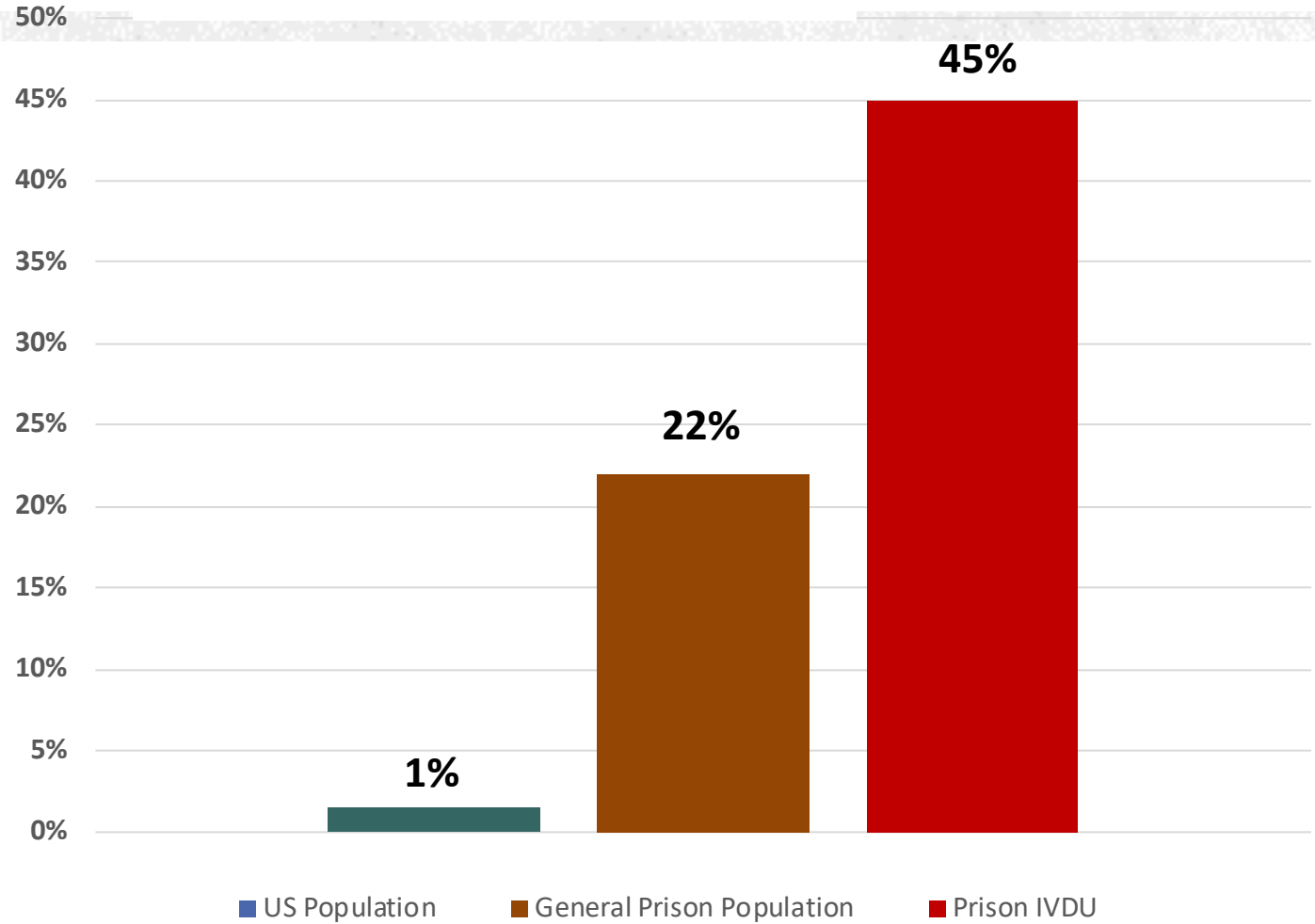
Globally, HCV incidence among general prison detainees is **1.4** per 100 person-years, and **16.4** per 100 person-years among detainees with a history of IVDU.

Larney S, et al. The incidence and prevalence of hepatitis C in prisons and other closed settings: Results of a systematic review and meta-analysis. *Hepatology*. 2013 October ; 58(4): 1215–1224. doi:10.1002/hep.26387.



State of Alaska Department of Corrections. 2019.

Prevalence of HCV in Alaska's Prisons and Jails

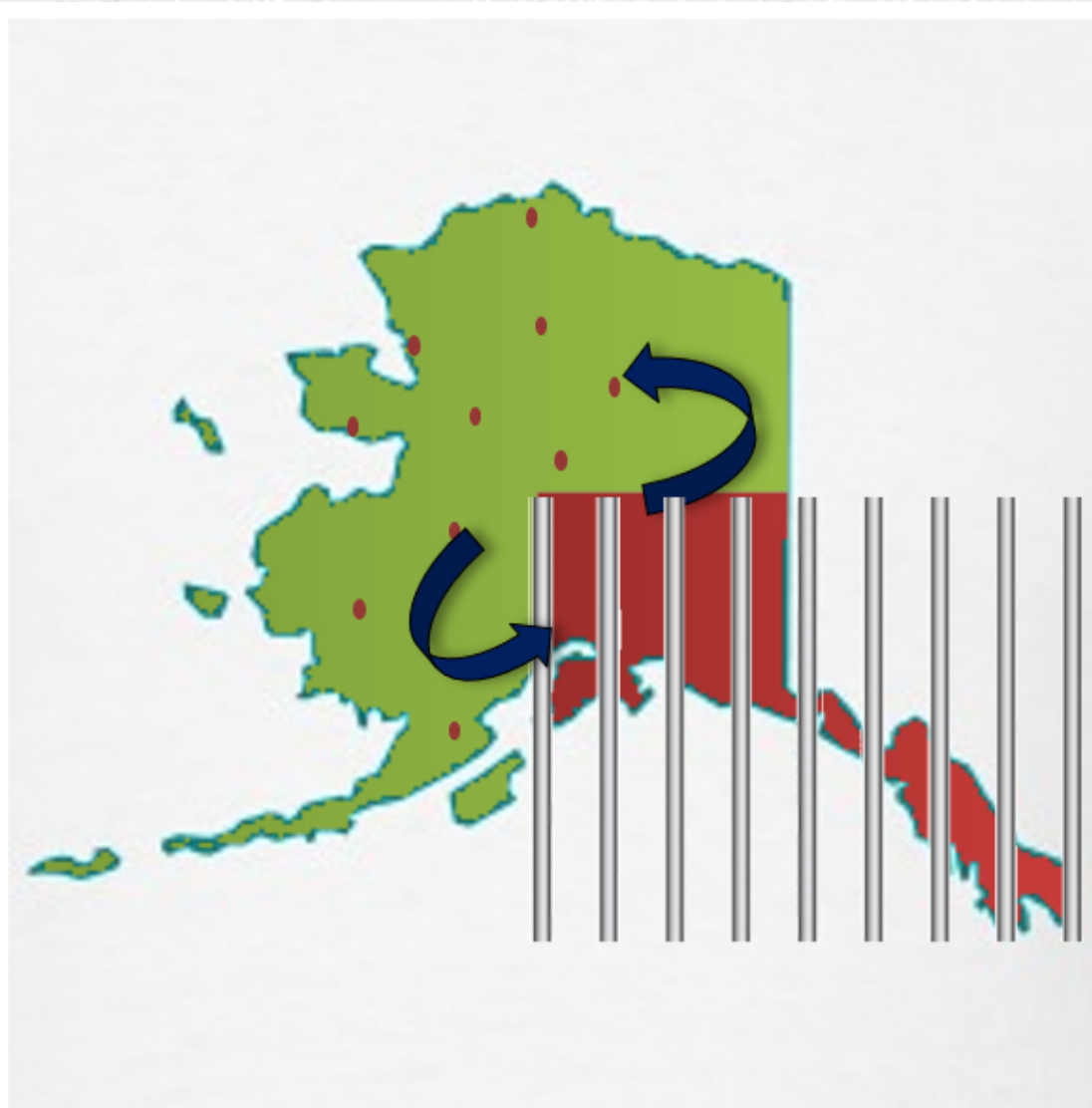


Alaska HCV Elimination



The overall incidence of HCV is lower in prison than the community, but the transmission risk is over 2 fold higher among recently released persons who inject drugs.

Stone, J et al. Modelling the Impact of Incarceration and Prison-based Hepatitis C Virus (HCV) Treatment on HCV Transmission Among People who Inject Drugs in Scotland. *Addiction*. 2017; 112(7):1302-1314. Epub 2017 Mar 3.



Hepatitis C Virus in Alaska

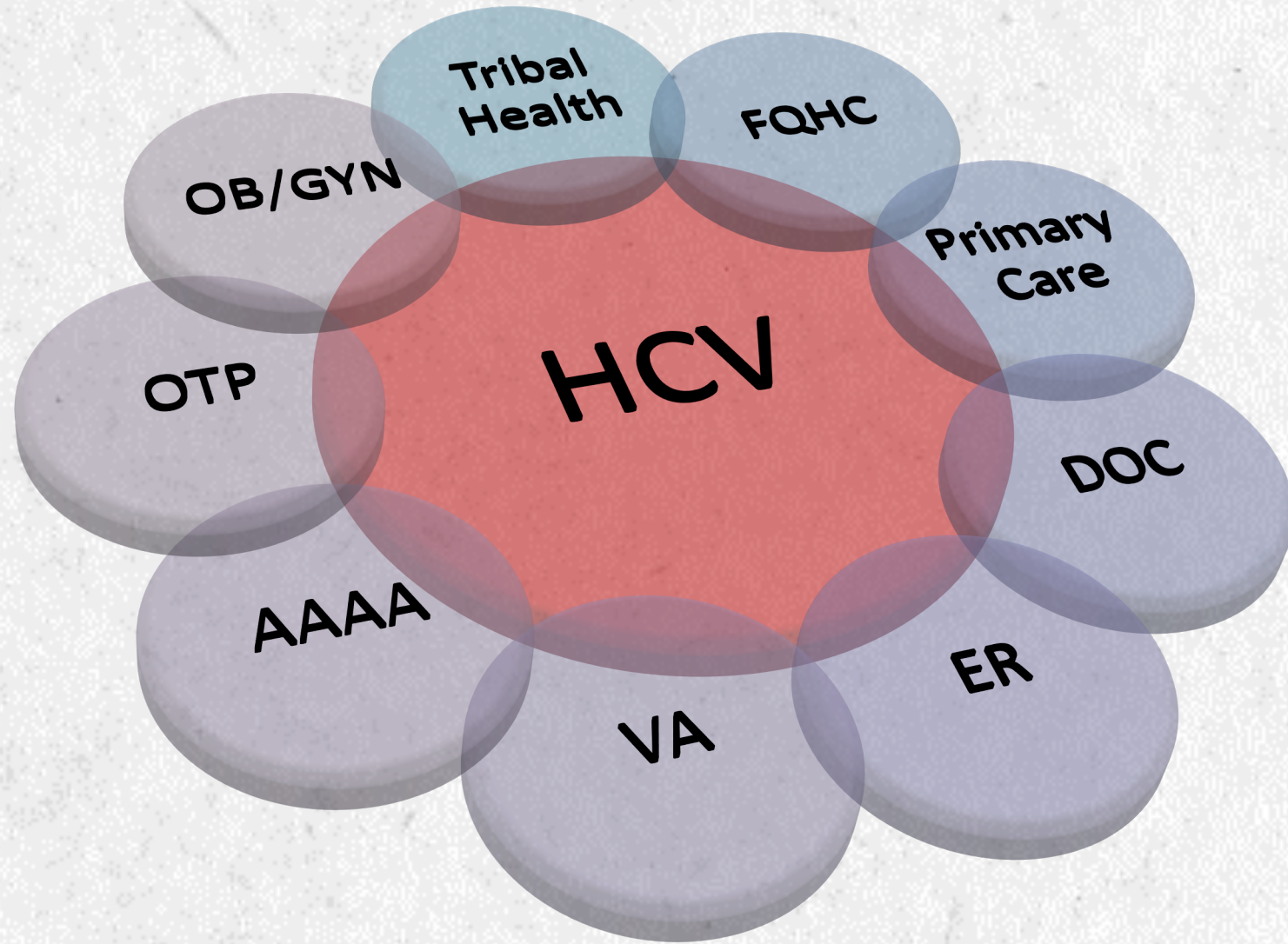
- **25%** of HCV cases identified by the Alaska state lab in a given year are sitting in one of Alaska's jails or prisons.
- Approx. **75%** of Alaska's inmates will return to the community within three years; eventually **95%** return to the community

Source: Alaska State Virology Lab and Alaska Department of Corrections; 2016

Chronic + Communicable

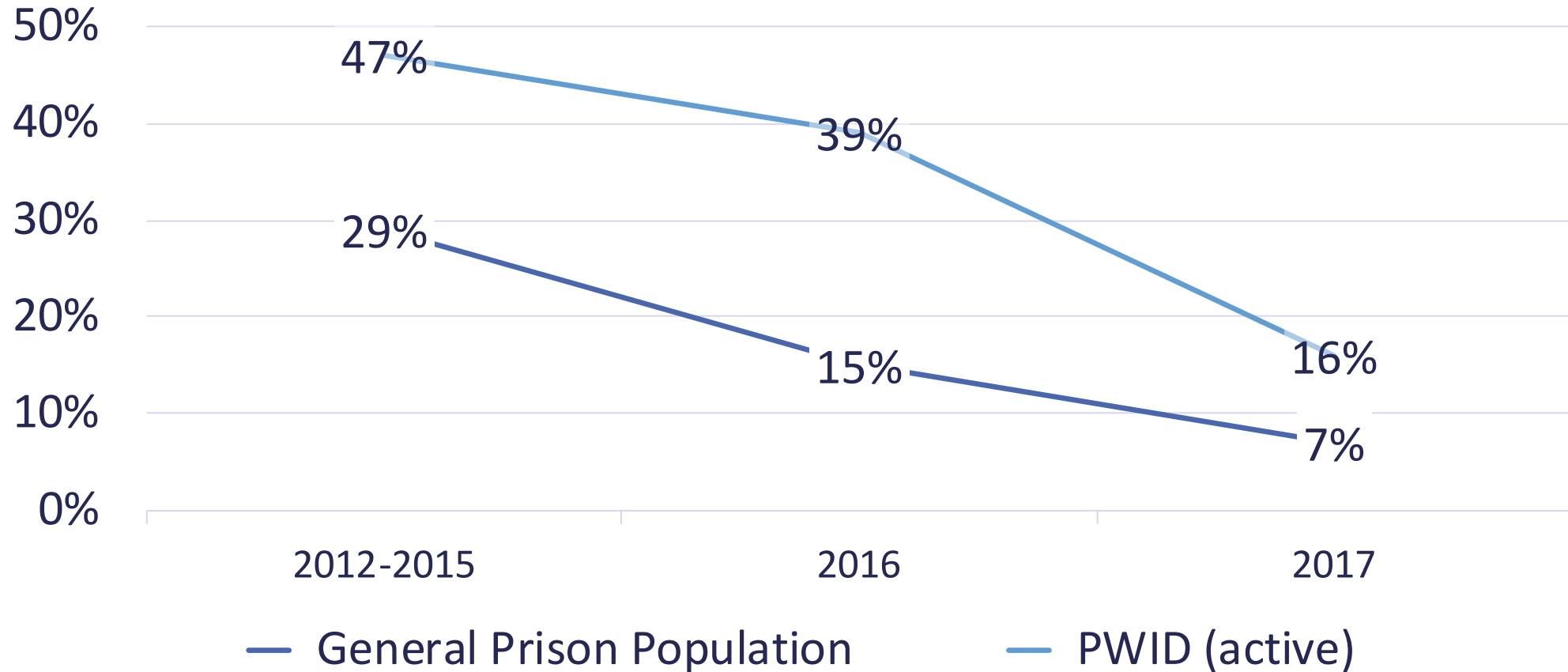


Alaska HCV Elimination





Percentage of Detainees in Iceland Prisons with HCV Viremia



Gottfredsson, M, et al. Major Decrease in Prevalence of Hepatitis C Viremia in Key Populations following the 2nd Year of Treatment as Prevention for Hepatitis C (TraP HepC) Program in Iceland. Oct 5, 2018



Two Key Components of an Elimination Plan



HEPATITIS ADVISORY WORK GROUP (HAWG)

In 2014 the Alaska Section of Epidemiology along with State, Tribal, and private practice partners organized the Hepatitis Advisory Working Group. This group came together to address the high prevalence rate of viral hepatitis in Alaska and develop a strategic plan for the prevention, care, and treatment of Alaskans with chronic hepatitis B (HBV) and hepatitis C (HCV) and associated morbidities.

Source: State of Alaska Section of Epidemiology.
<http://dhss.alaska.gov/dph/Epi/id/SiteAssets/Pages/hepatitis/AlaskaHepatitisActivities.pdf>



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