



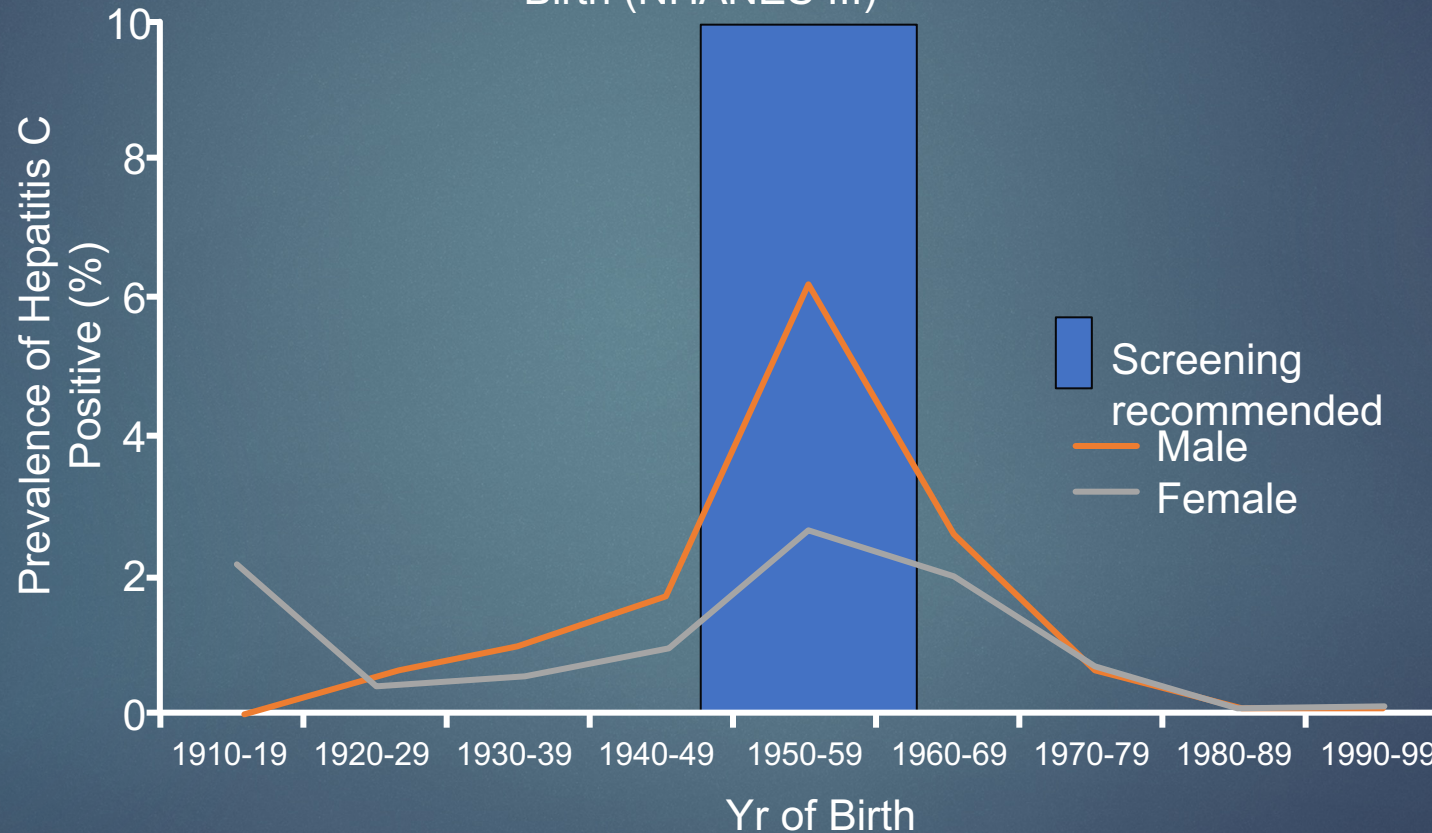
# HCV and People Who Inject Drugs

JESSICA GREGG MD PHD

CHIEF MEDICAL OFFICER, DE PAUL TREATMENT CENTERS

# Hepatitis C Prevalence is Increased in Baby Boomers

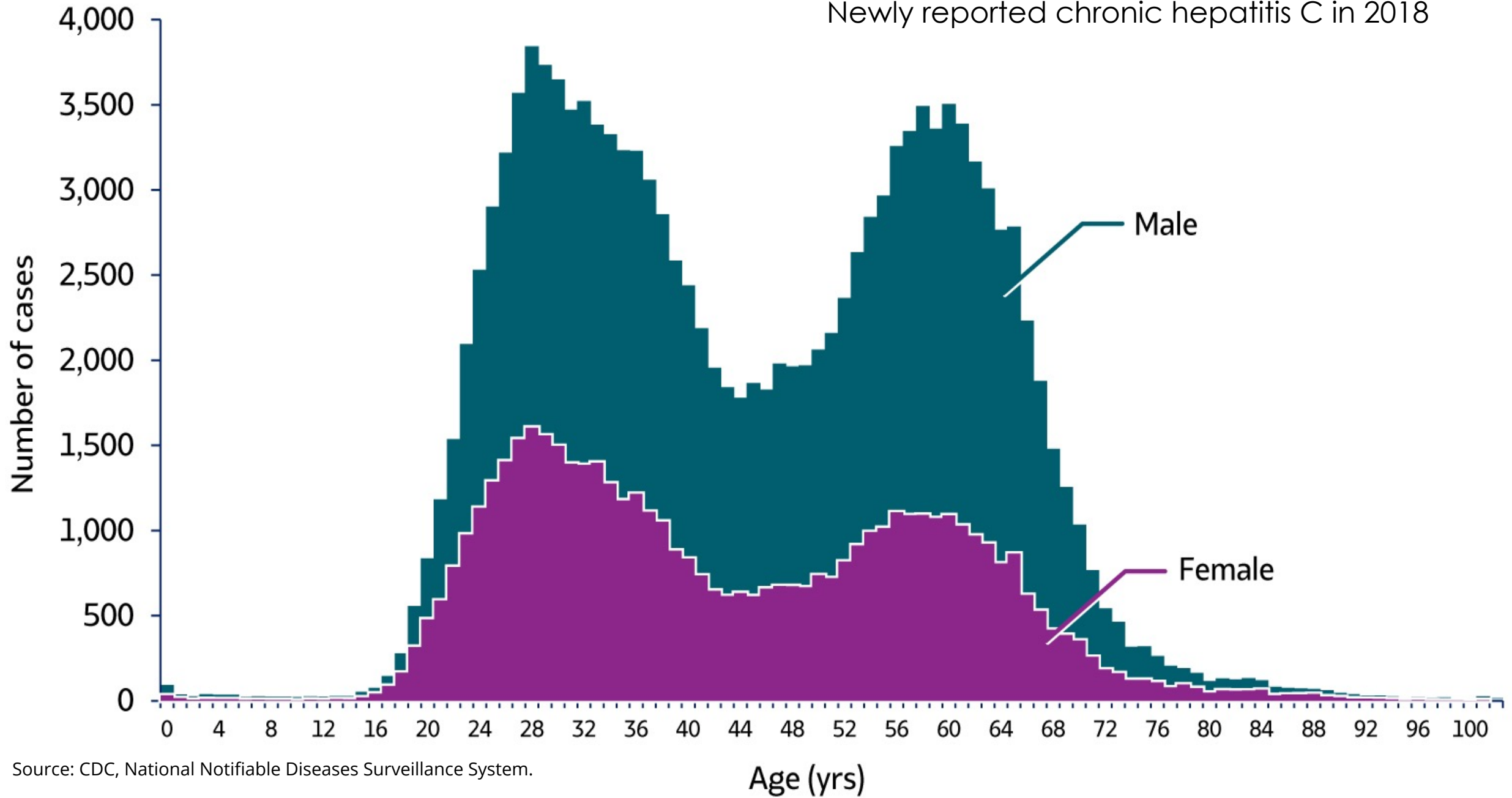
Prevalence of Hepatitis C Antibody Positivity in US Population by Sex by Yr of Birth (NHANES III)<sup>[1]</sup>




# But...

- ▶ New cases of acute Hepatitis C infection have nearly tripled over last 5 years
- ▶ Highest overall number of new infections among 20-29 year olds (due to increasing injection drug use)
- ▶ HCV infections are growing among women of childbearing age

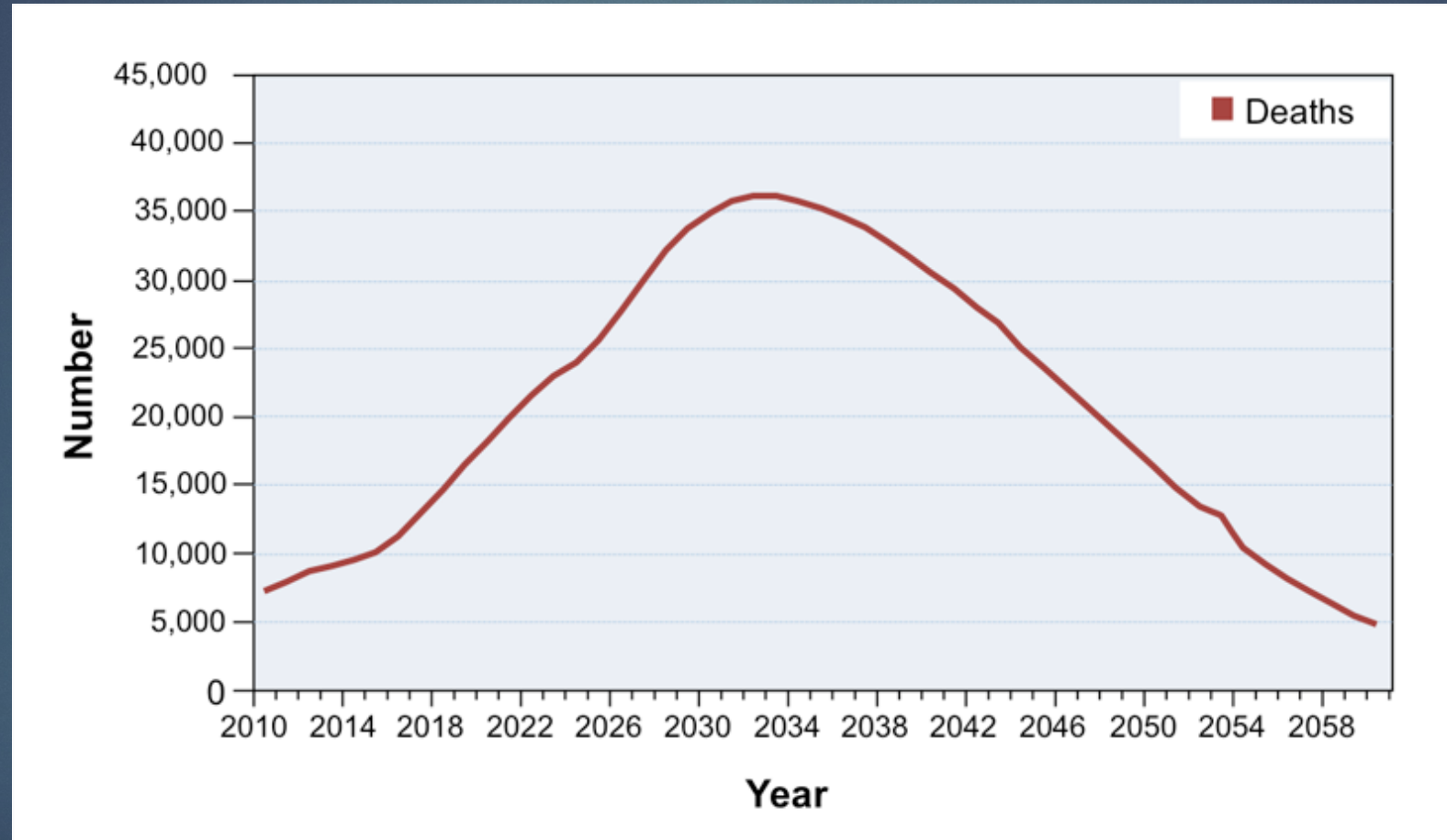
# Newly reported chronic hepatitis C in 2018



Source: CDC, National Notifiable Diseases Surveillance System.

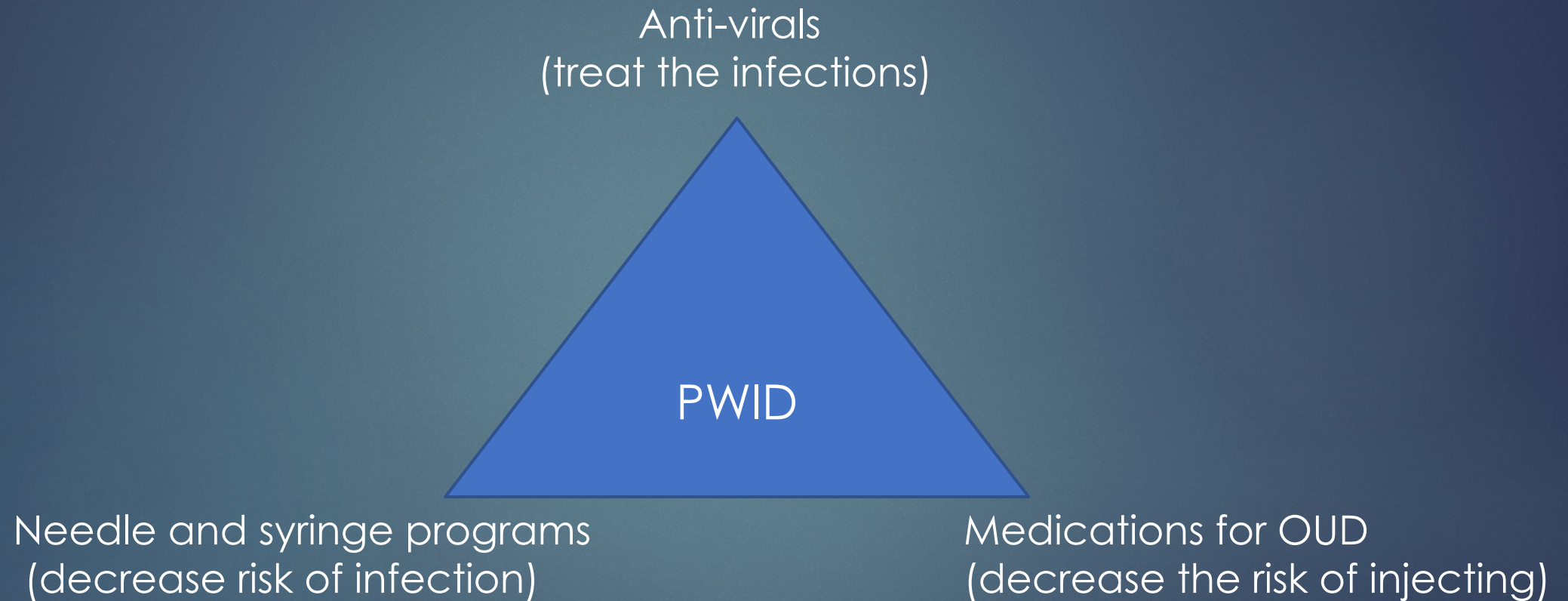
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- ▶ Injection drug use now accounts for at least 60 percent of HCV transmission in the United States.
  - ▶ 75-90% of PWID are HCV Ab positive.

# Deaths from prevalent HCV forecasted to peak in 2030s...



Unless something changes

# Trifecta of interventions needed





# Medications for Opioid Use Disorder (MOUD)

# Opioid Agonists



# Methadone

Full agonist at the opioid receptor

Half life greater than 24 hours

OTP only

Ok to dispense in hospitals

# Methadone

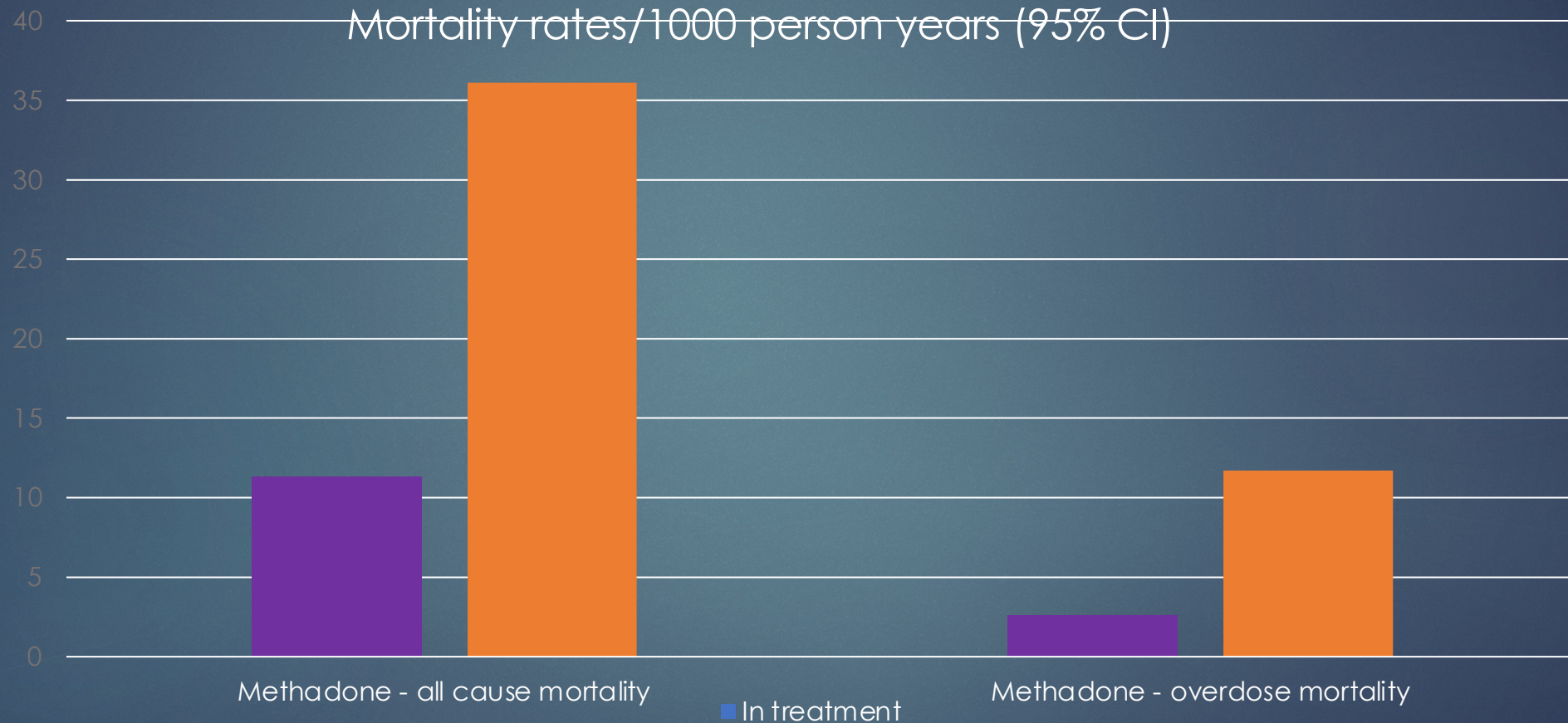
Decreases use of illicit opioids

Increases retention in treatment

Decreases incidence of new  
HIV/Hepatitis C infections

Reduces criminality

# Mortality Risk during and after methadone treatment





# Buprenorphine

Partial agonist at the opioid receptor

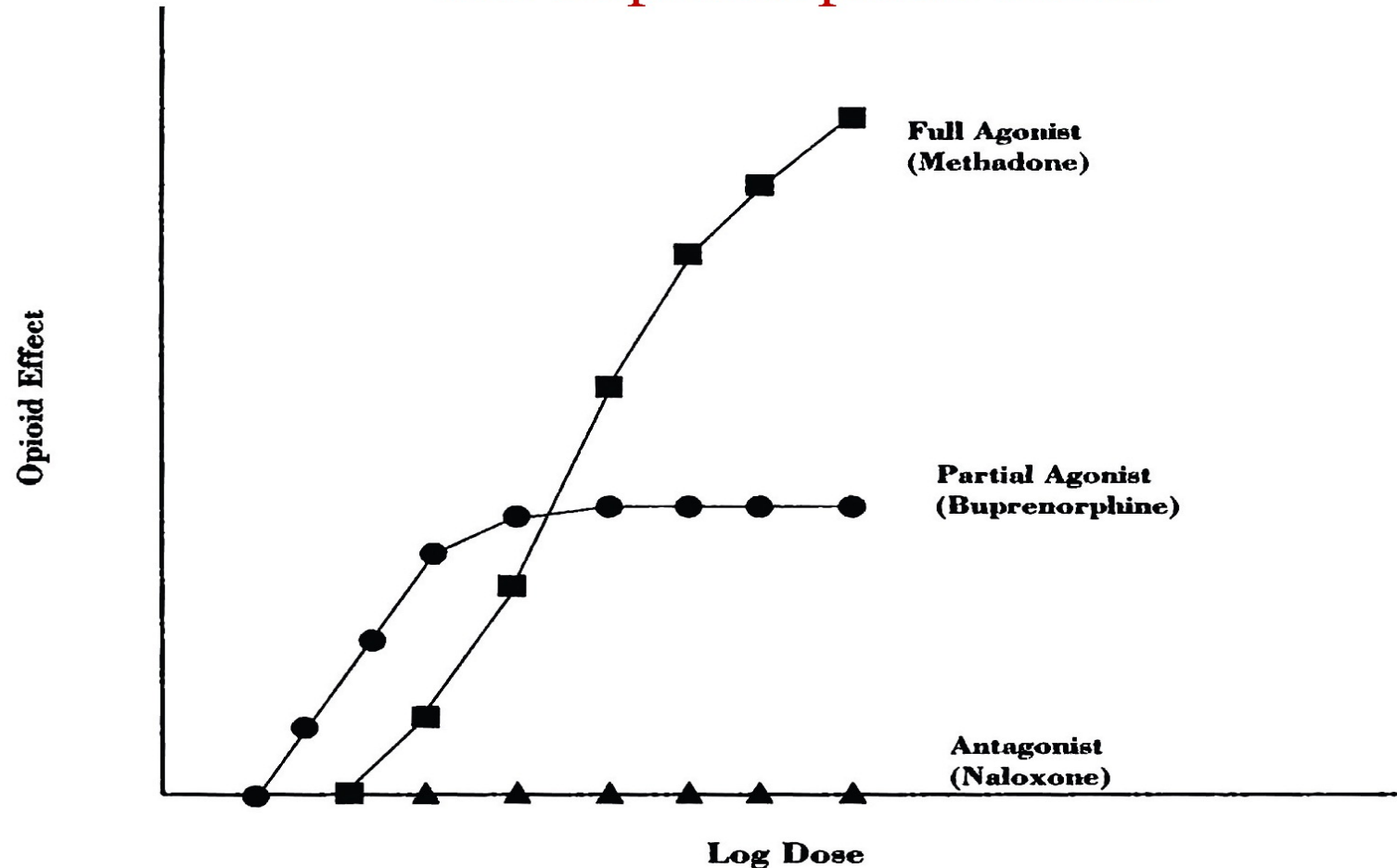
Prescribers must have DATA waiver

Patient limits

Ok to dispense in hospitals



## The Buprenorphine Effect



SAMHSA chart shows how buprenorphine works to ease withdrawal while producing less euphoric opioid effects

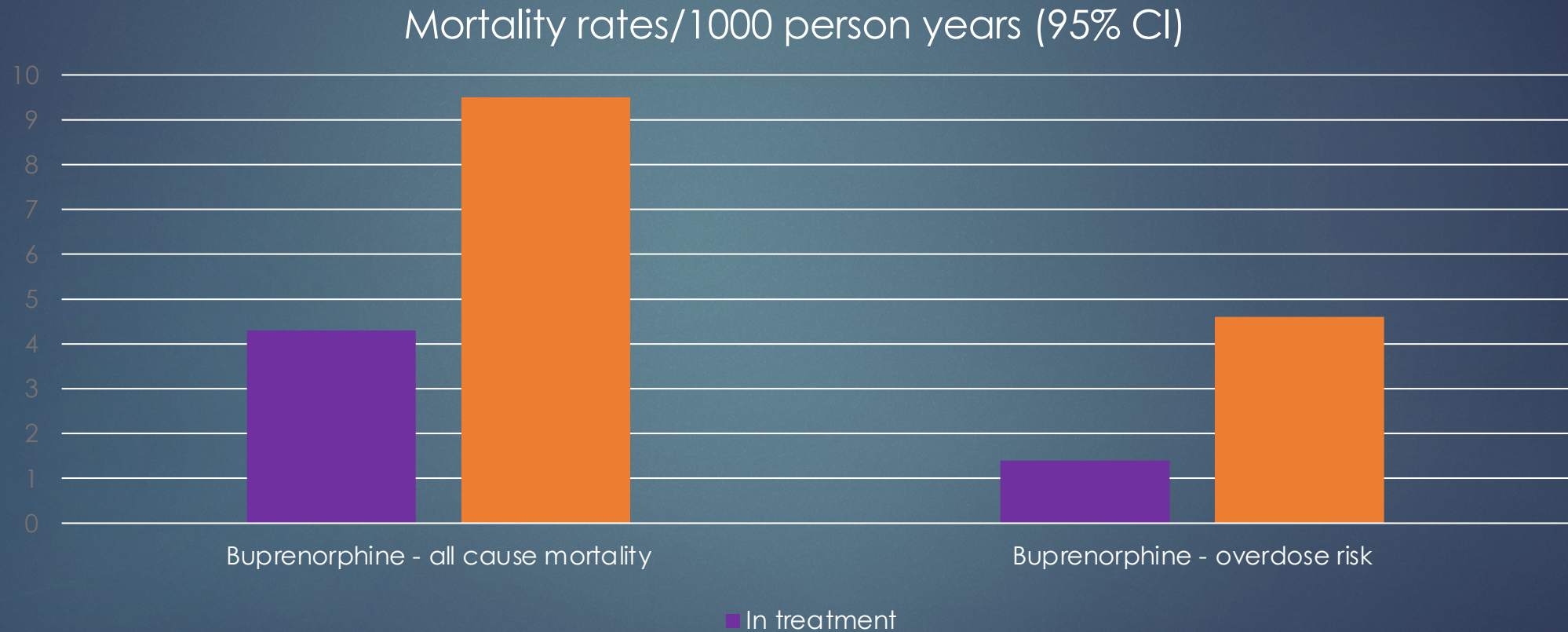
# Buprenorphine

Decreases use of illicit opioids

Increases retention in treatment

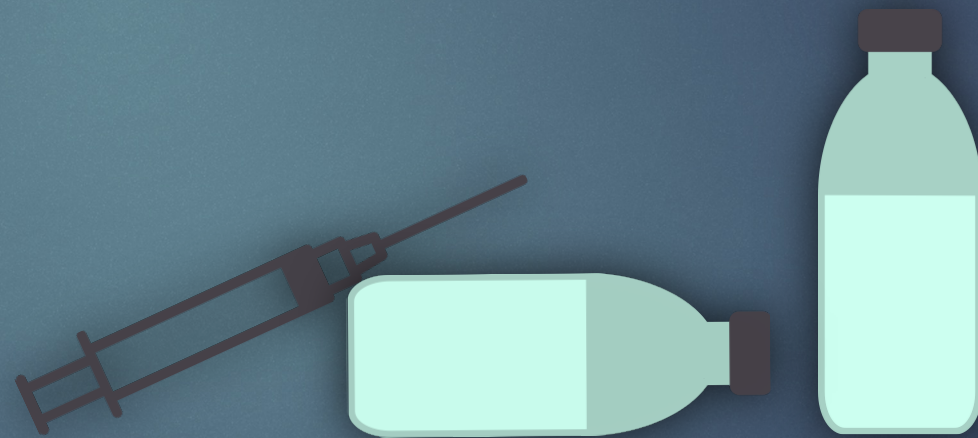
Decreases incidence of new  
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# Mortality Risk during and after buprenorphine treatment

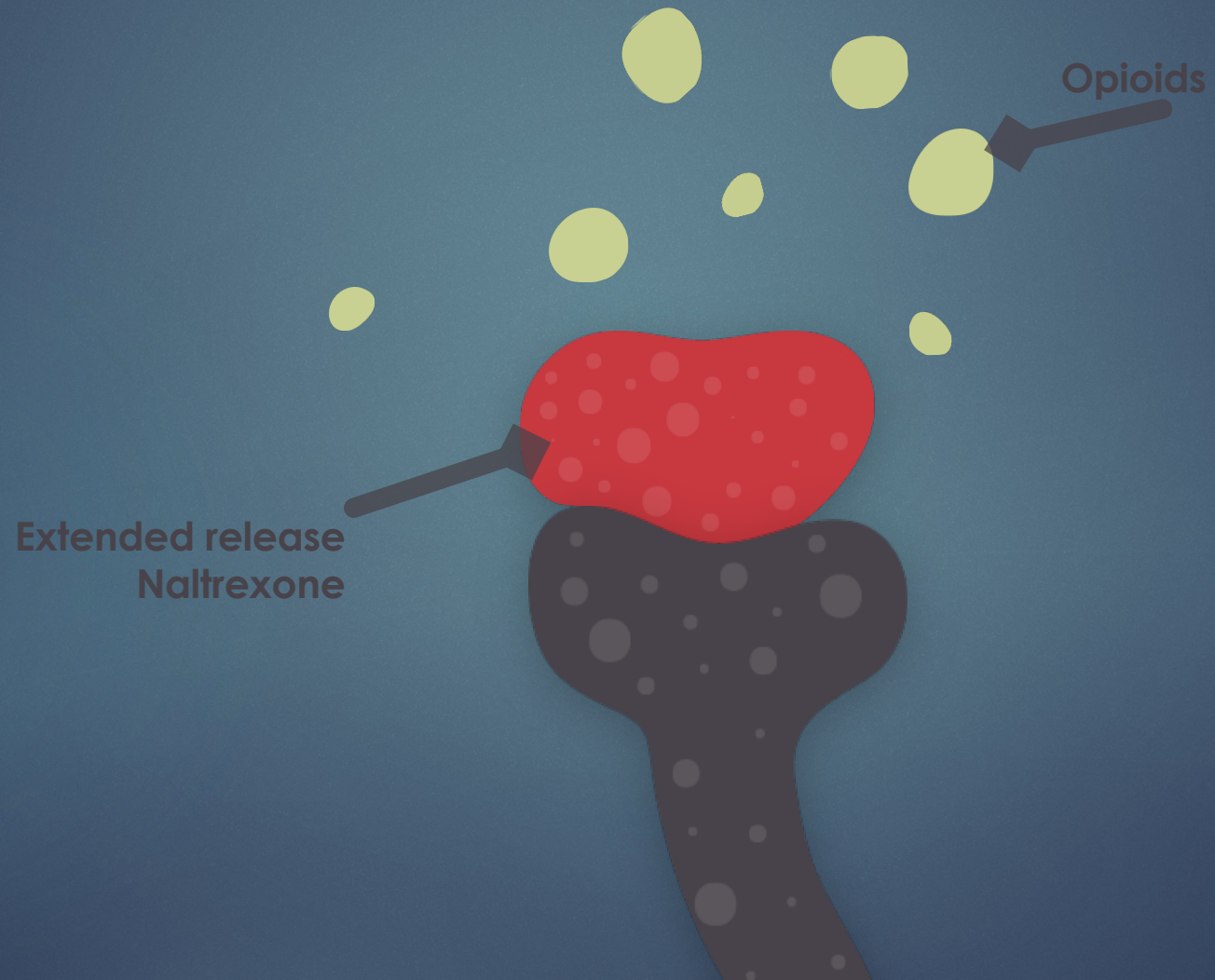


Mortality Risk during and after opioid substitution treatment: systematic review and meta-analysis of cohort studies. Sordo, et al. BMJ 2017.

# XR Naltrexone



# XR Naltrexone



# XR Naltrexone

One 380 mg deep muscle injection in the buttock every 4 weeks

No special waiver training

Need to be opioid free

1/4 patients do not tolerate induction

No good data on mortality or reduction in HIV/Hep C

# Summary

To prevent Hepatitis C, treat addiction and emphasize harm reduction

Methadone and buprenorphine use are significantly associated with decreased risk of HIV/Hep C infection

Extended release naltrexone treats opioid use disorder. It is unclear if it also decreases risk of new infections

Also, don't forget to prescribe naloxone!!!



Thank You