

The impact of opioid agonist treatment on injecting-related diseases

Dr Samantha Colledge-Frisby



Nov | 2022

Acknowledgements



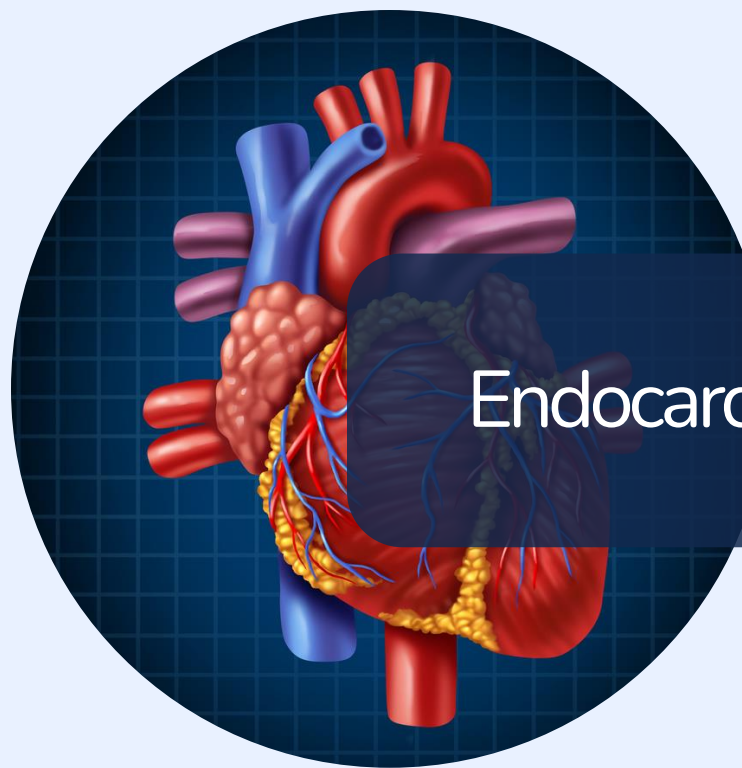
No conflicts of interest to declare



Non-viral injecting-related diseases



Skin and soft tissue



Endocarditis



Sepsis/Bacteremia

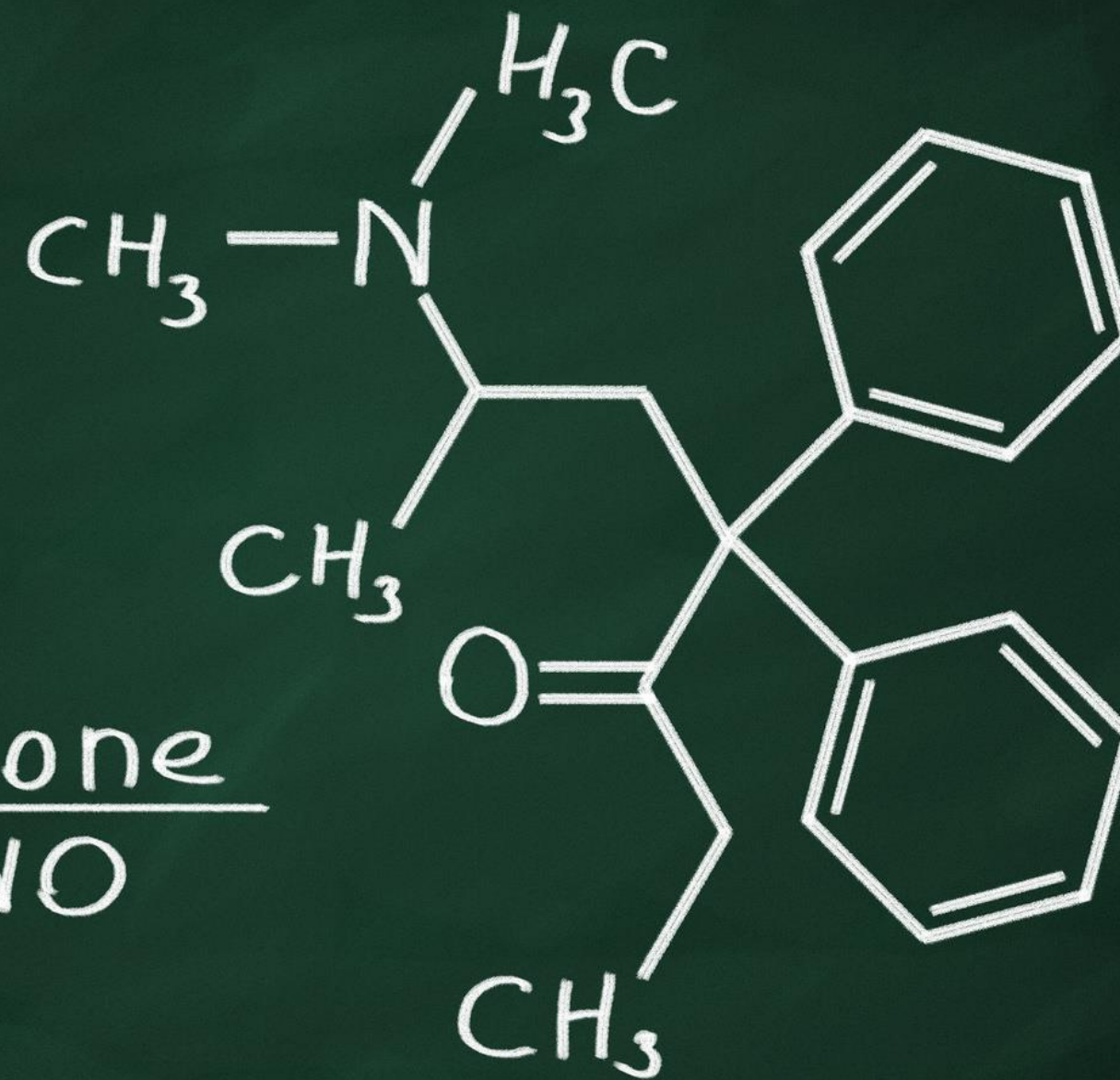


Opioid agonist treatment

- Injecting frequency
- Blood borne viruses
- Overdose
- Mortality
- Rehospitalisation

Methadone

$C_{21}H_{27}NO$



01.

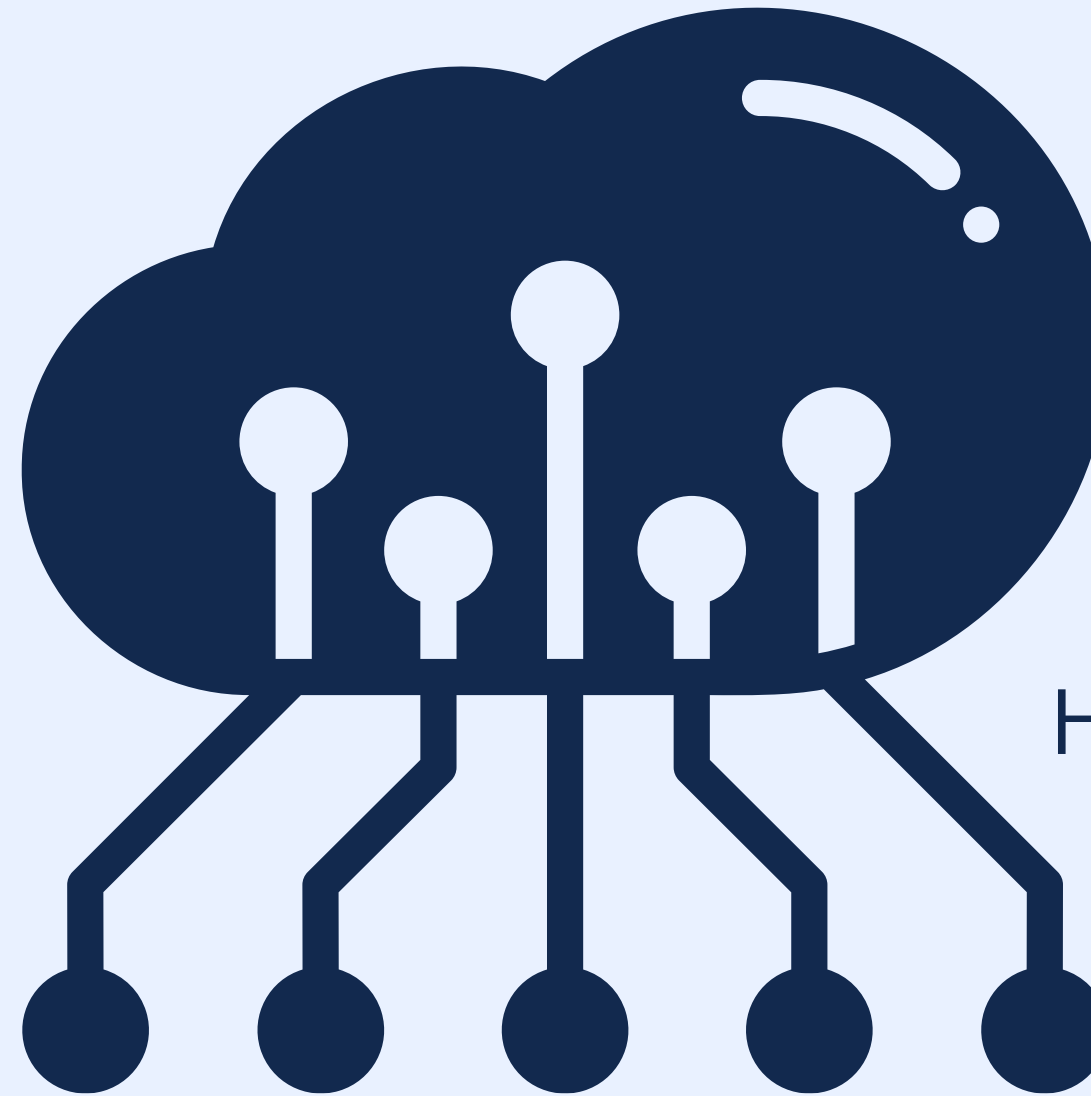
Estimate the **incidence** of injecting-related diseases

02.

Examine the **impact** of opioid agonist treatment on injecting-related diseases

Aims

Opioid agonist treatment



Hospital & emergency

Mortality

Criminal justice

Mental health

Method



1

Incidence

1



1000 PERSON YEARS



Count:

Any IRD

SSTI

Sepsis

Endocarditis

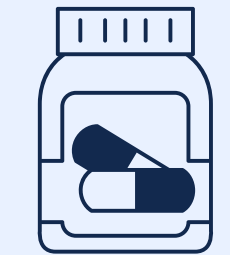
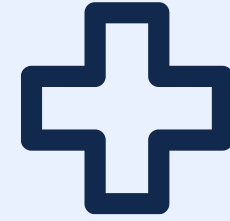
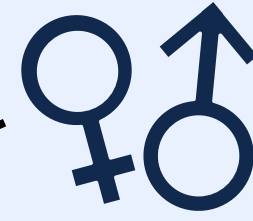
Septic arthritis

Osteomyelitis

Venous disease

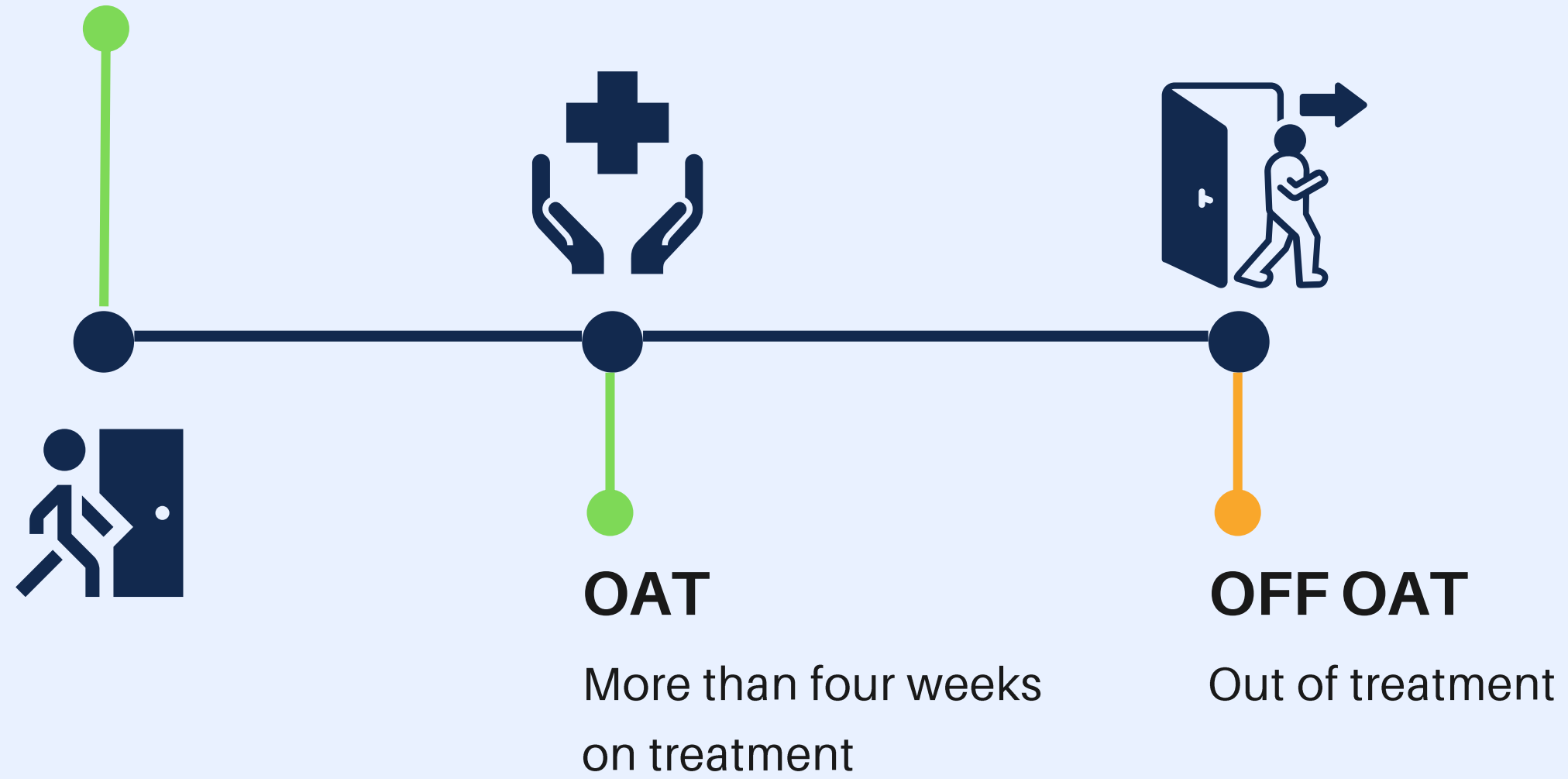
1

Incidence



OAT

First four weeks on treatment

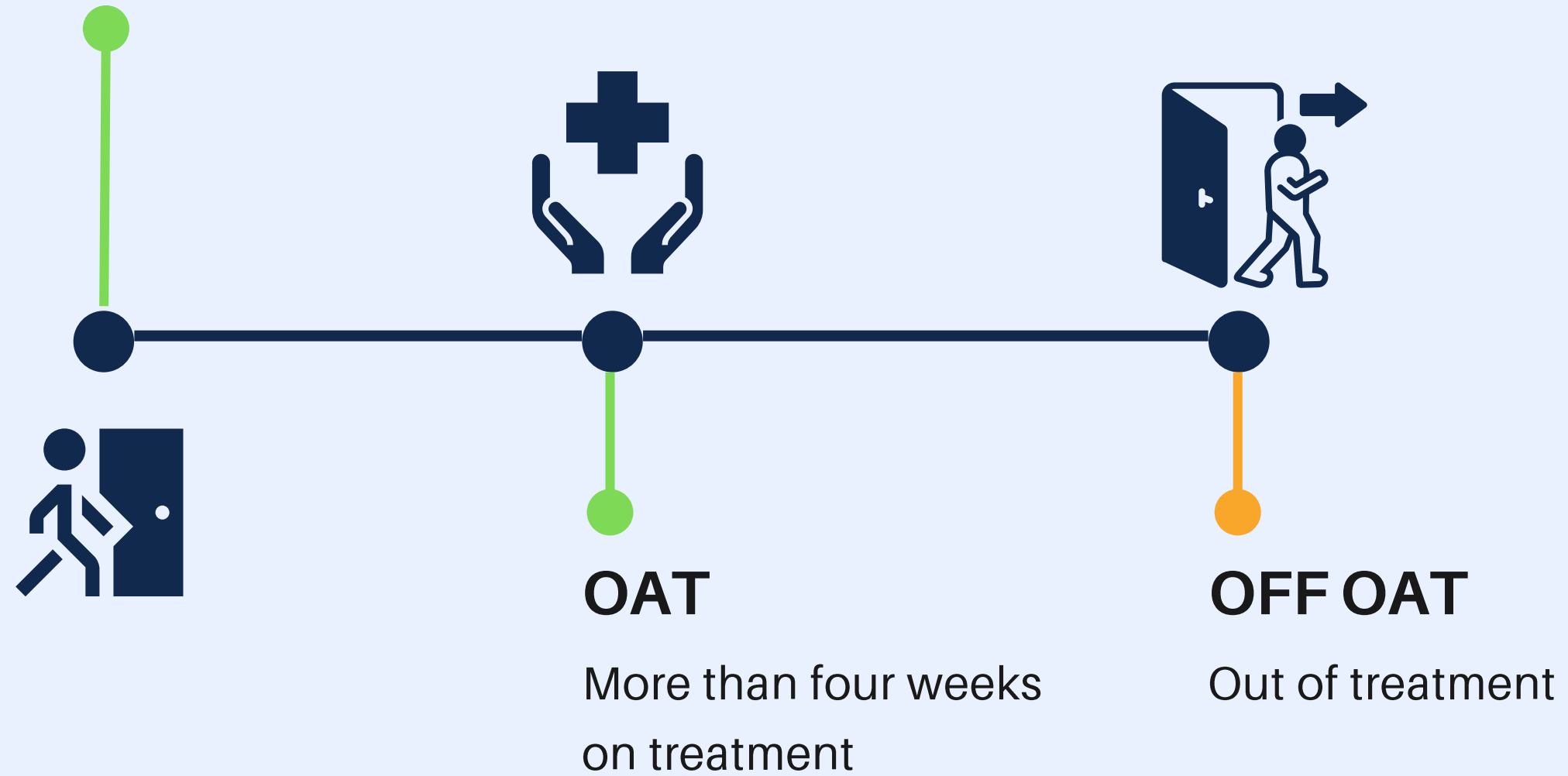


OAT

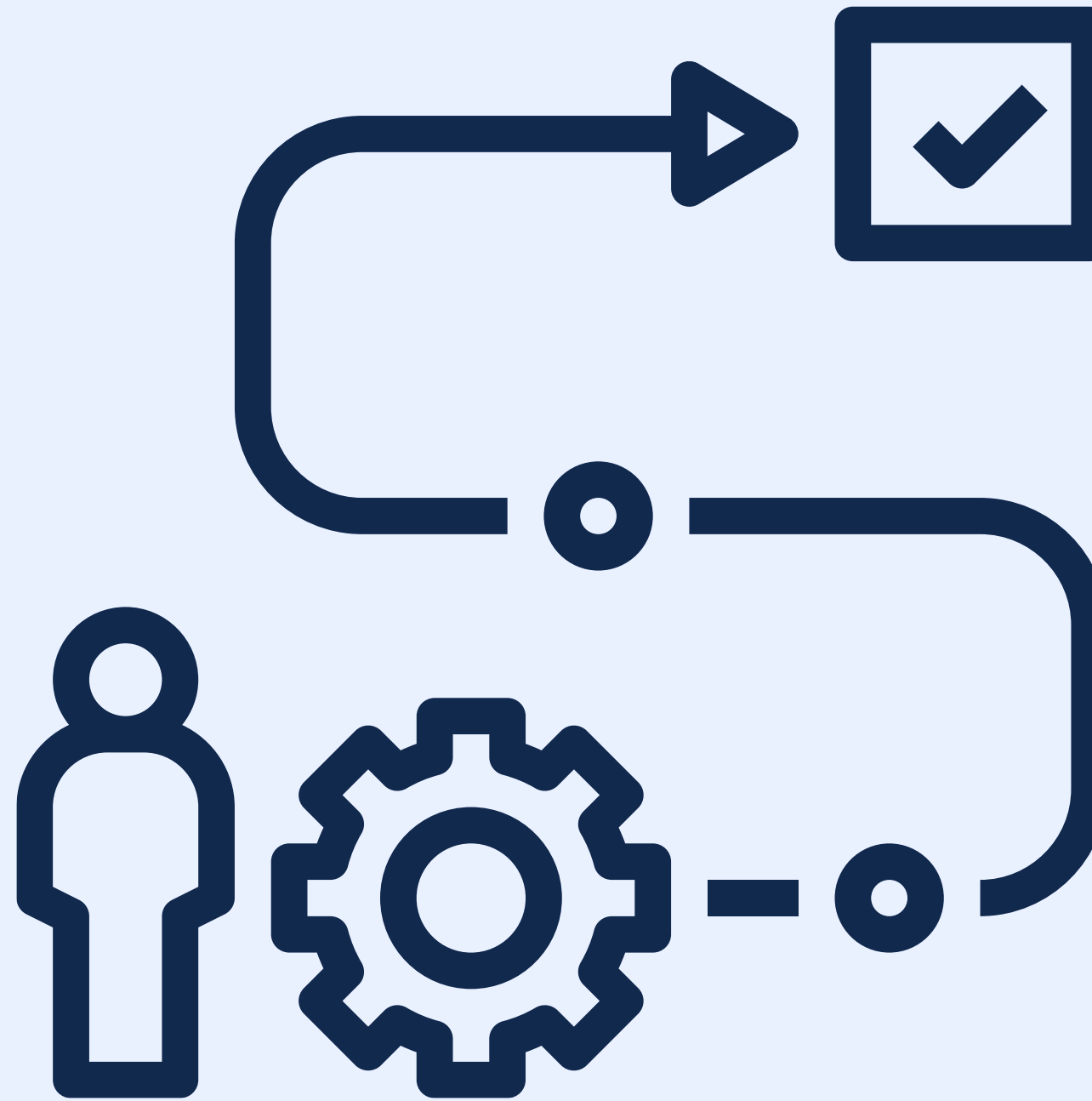
First four weeks on
treatment



Overdose and all-cause mortality



2



Adjusted incidence
rate ratios

Poisson regression analysis
with generalised estimating equations



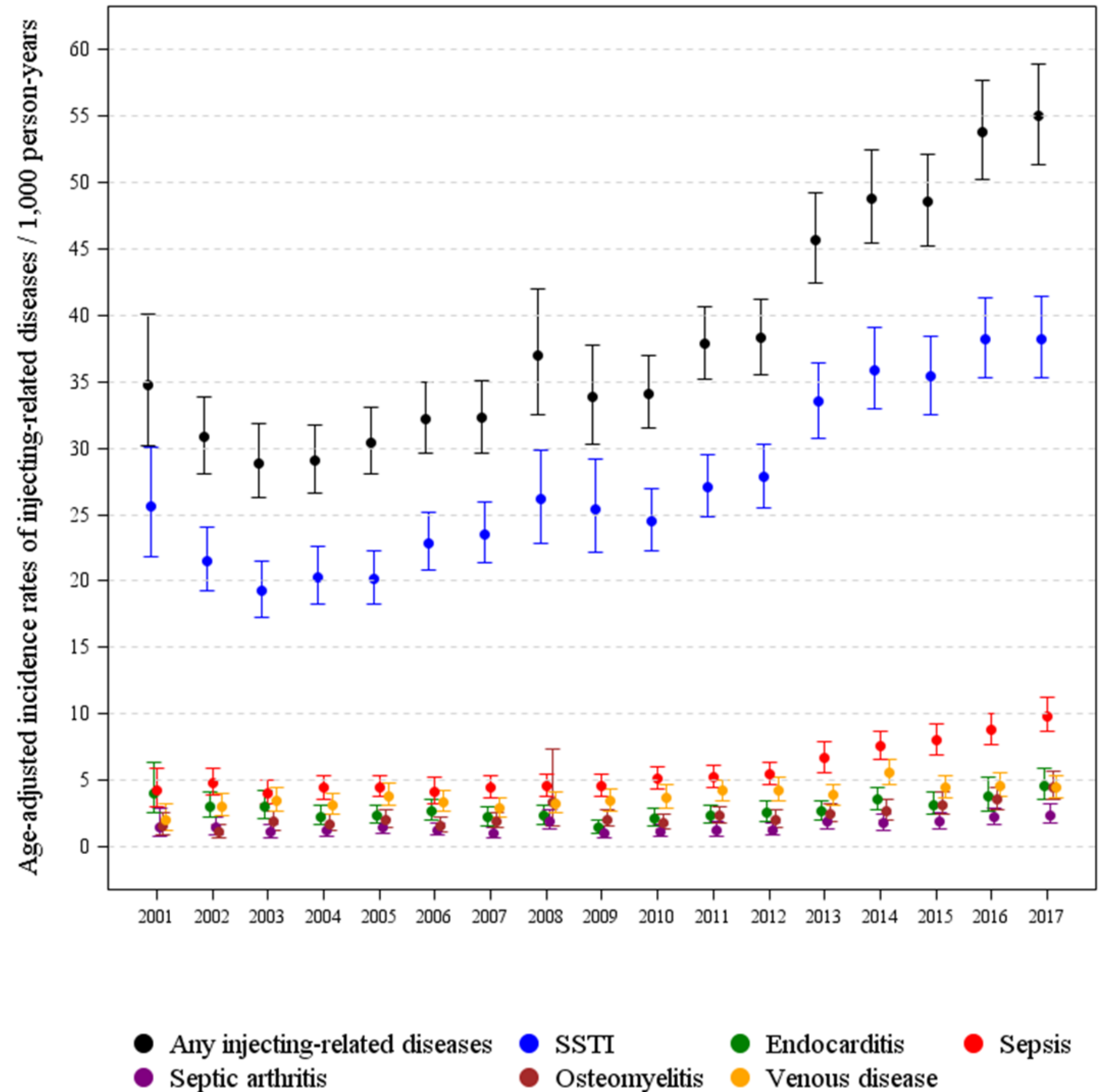
Any injecting-related disease	9122 (19%)	19 834 (100%)	42.7
Skin and soft tissue infections	6973 (15%)	13 588 (69%)	29.9
Sepsis	2386 (5%)	3166 (16%)	7.0
Venous diseases	1354 (3%)	2004 (10%)	4.4
Endocarditis	791 (1.7%)	1314 (7%)	2.9

Results

* Colledge-Frisby et al. 2022

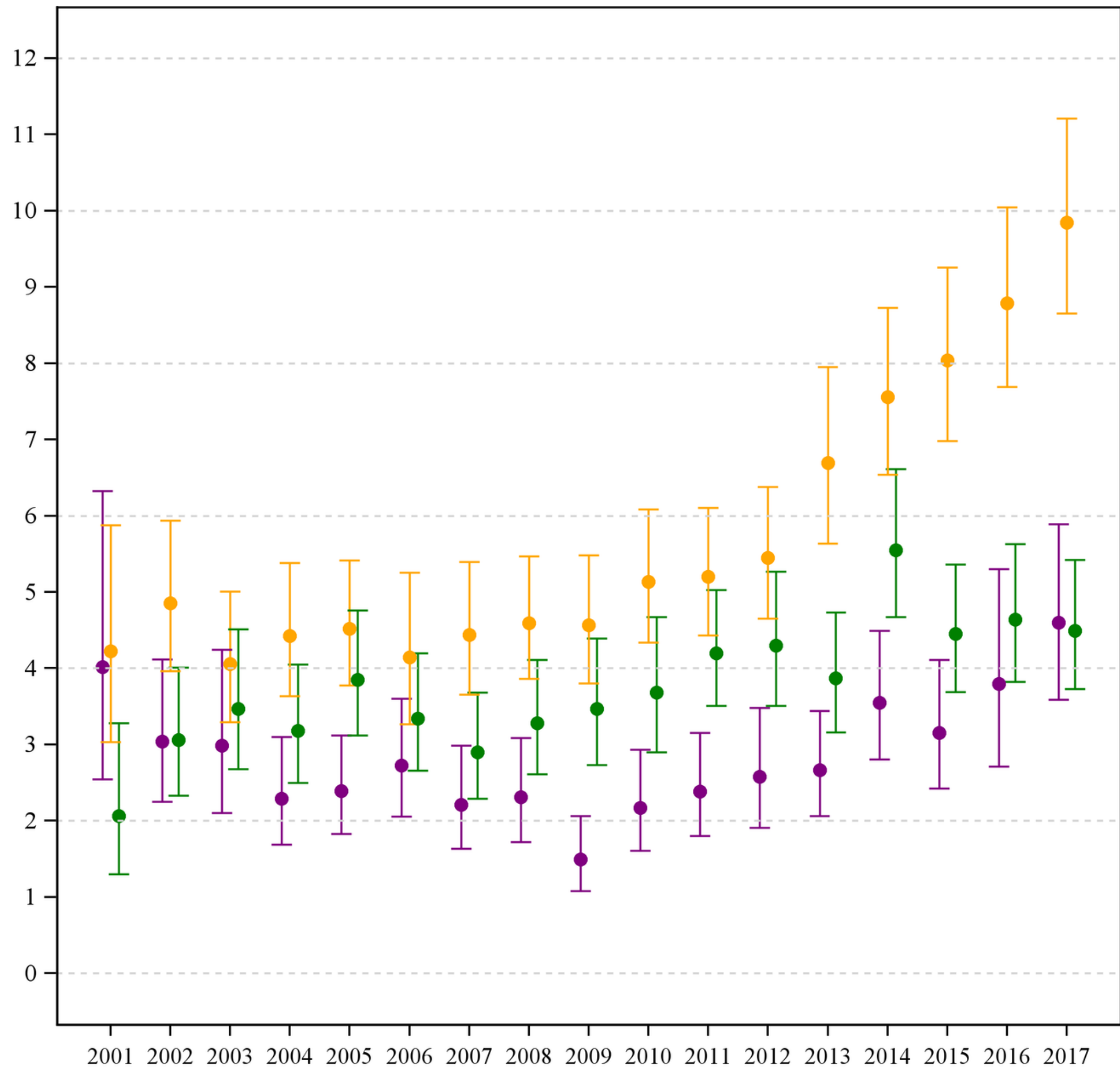
Drug and Alcohol Dependence

Results



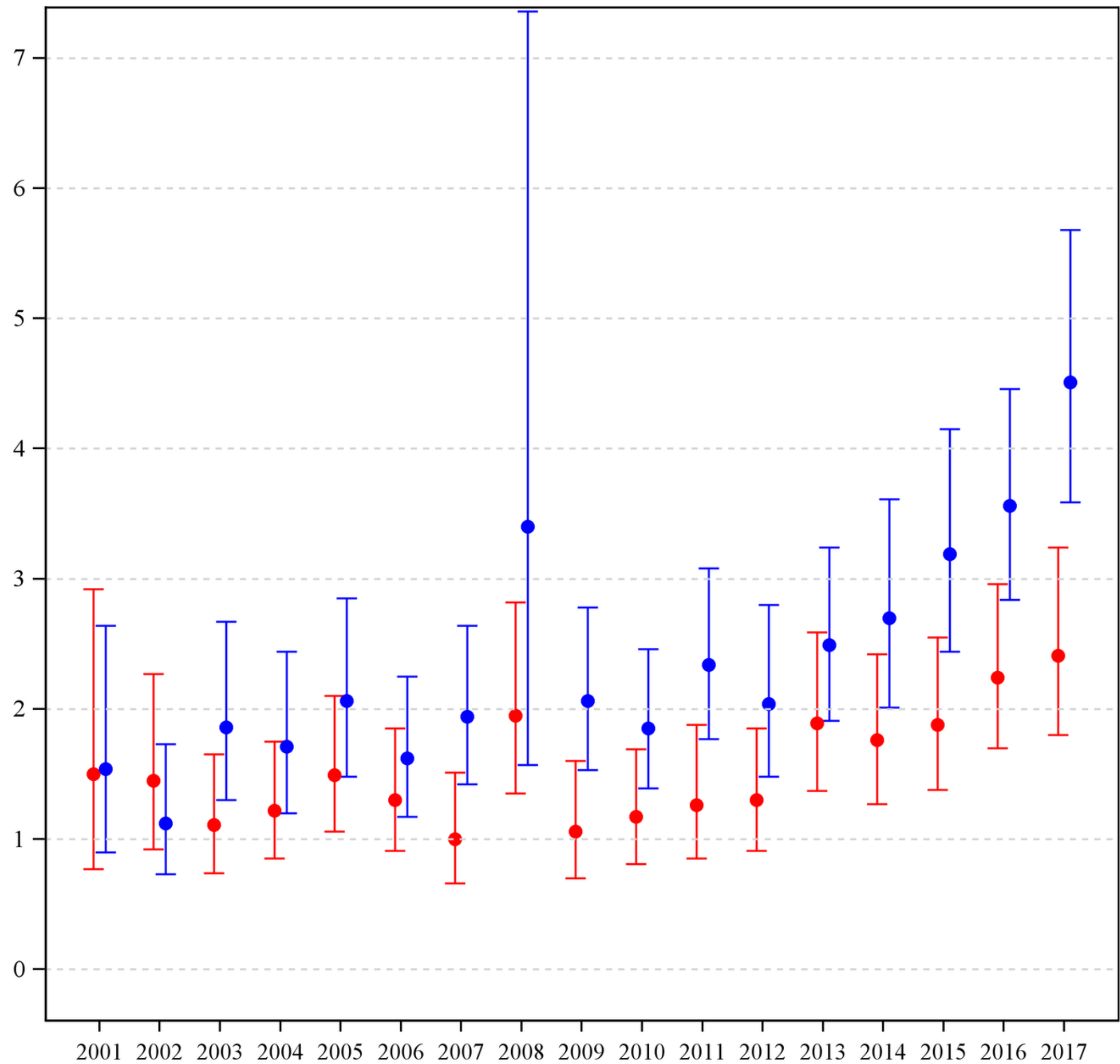
Results

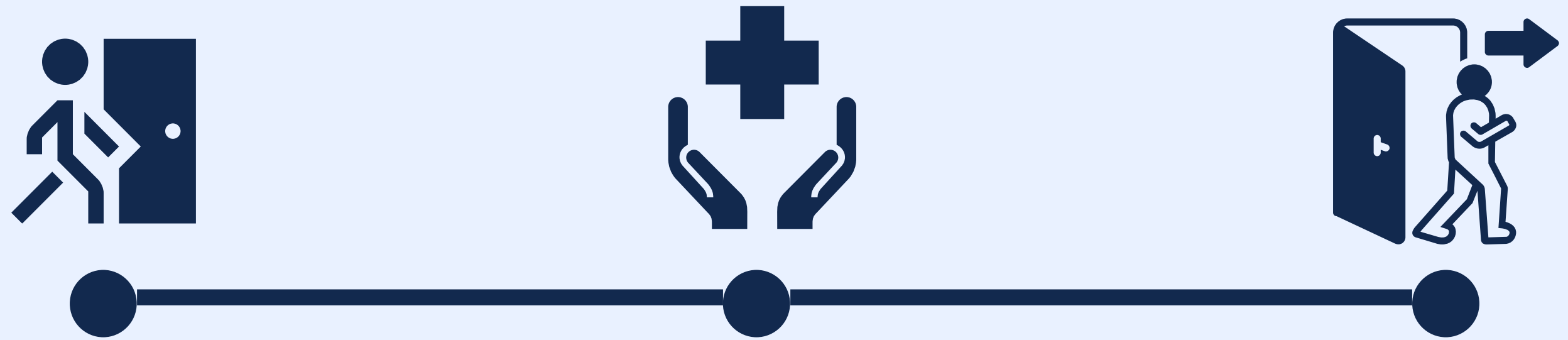
- Sepsis
- Endocarditis
- Venous diseases



Results

- Septic arthritis
- Osteomyelitis





Results

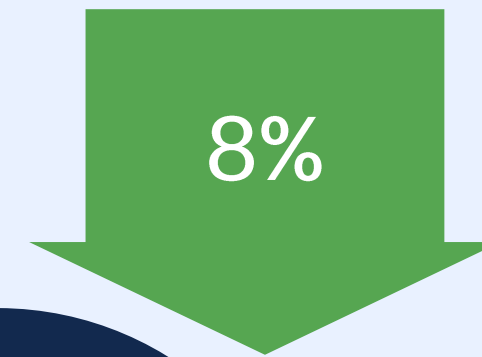
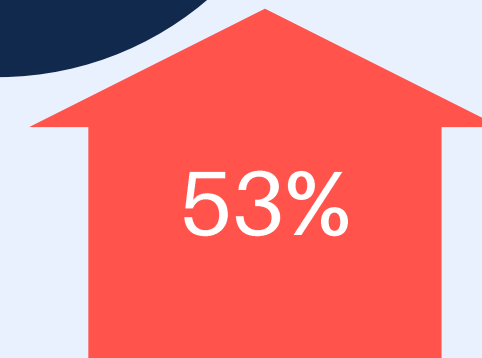
Any injecting-related infection



Off OAT



1-4 weeks on OAT



4+ weeks on OAT

Results

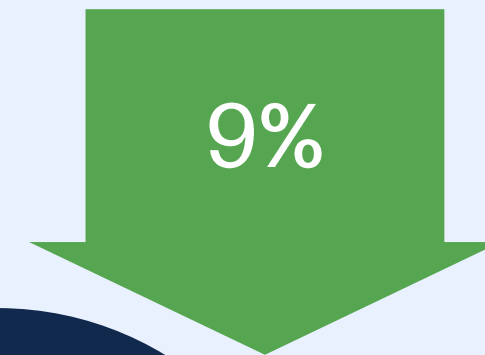
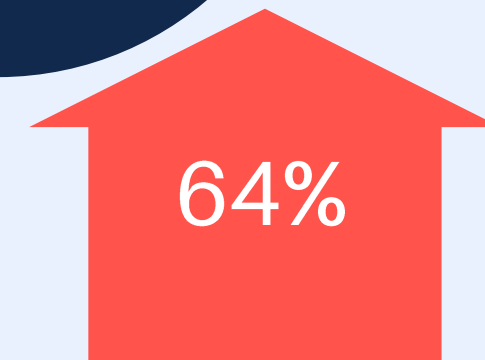
Skin and soft tissue infections



Off OAT



1-4 weeks on OAT



4+ weeks on OAT

Results

Endocarditis

1-4 weeks on OAT



Off OAT

103%

25%



4+ weeks on OAT

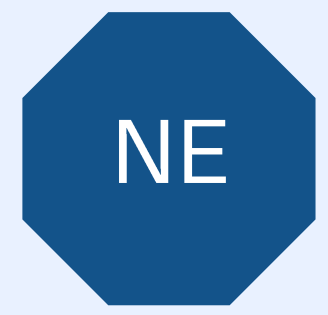
Results

Sepsis

1-4 weeks on OAT



Off OAT



4+ weeks on OAT

Results

Septic arthritis

1-4 weeks on OAT



Off OAT

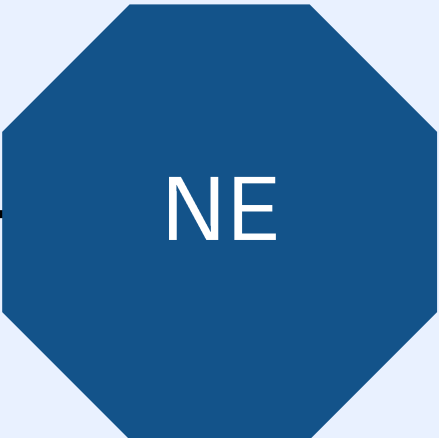


4+ weeks on OAT

Results

Osteomyelitis

1-4 weeks on OAT



Off OAT



4+ weeks on OAT

Results

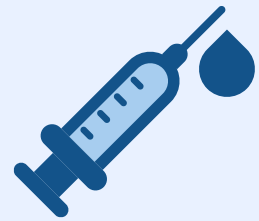
1

OAT not protective of venous diseases



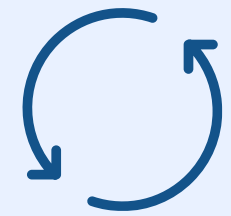
2

People who inject drugs \neq Opioid use disorder



3

Causal pathway not examined



4

Not reflective of community incidence



Limitations



1

OAT modestly **protective** of injecting-related infections

2

Increasing incidence of injecting-related infections

3

Need to **better understand** injecting-related harms

Implications

Thank you for listening

email: s.colledge@curtin.edu.au

Record linkage for the OATS study was conducted by the NSW Ministry of Health and the Centre for Health Record Linkage. Data from the reoffending database is provided by the NSW Bureau of Crime Statistics and Research.

