



# Chlamydia and gonorrhoea testing and positivity among women on opioid agonist therapy

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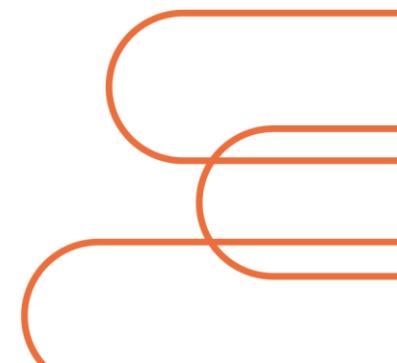
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# Disclosures

I have no conflicts of interest to disclose.





# Background

- Women who use drugs have complex sexual risk profiles
- Limited understanding of rates of STIs among women who use drugs
- Some data indicate higher risk of STIs among women with injecting drug use<sup>1</sup>
- Current STI management guidelines do not consider people who use drugs

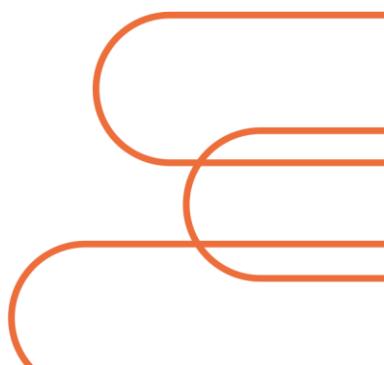
1. Brookmeyer KA, Haderhanaj LT, Hogben M, Leichliter J. Sexual risk behaviors and STDs among persons who inject drugs: A national study. *Prev Med*. 2019 Sep 1;126:105779.



# Background

- Drug use is often unreliably recorded
- Opioid agonist therapy (OAT) prescription can be used as a proxy for injecting drug use in surveillance datasets

**Aim:** Describe chlamydia and gonorrhoea testing and positivity among women on opioid agonist therapy



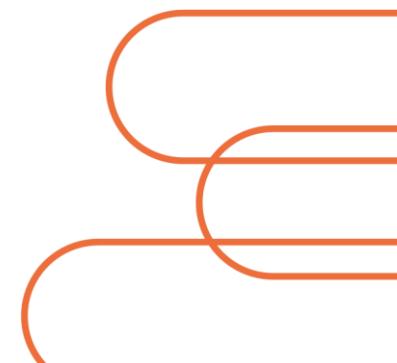


# Data source



Australian Collaboration for Coordinated Enhanced Sentinel Surveillance of Blood-borne  
Viruses and Sexually Transmitted Infections

Data from 69 primary care and sexual health clinics across all jurisdictions





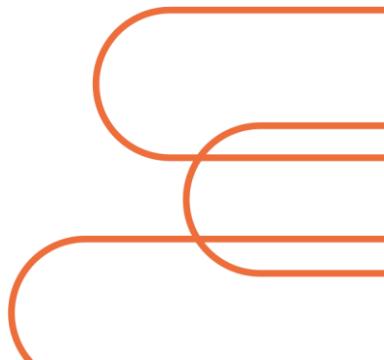
# Methods

**Study population:** Females with at least one prescription for OAT

Aged 15-55 years

**Study period:** 2012-2024

**Data:** Chlamydia and gonorrhoea pathology test results



# Results



**6,581**  
women aged 15-55  
years had an OAT  
prescription



**2,159**  
Had an observed chlamydia  
or gonorrhoea test



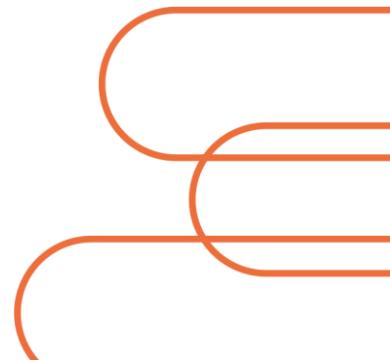
**36.6 years**  
Mean age at first OAT  
prescription



**78%**  
≥ 30 years of age



**9%**  
Aboriginal and/or Torres  
Strait Islander



# Test uptake

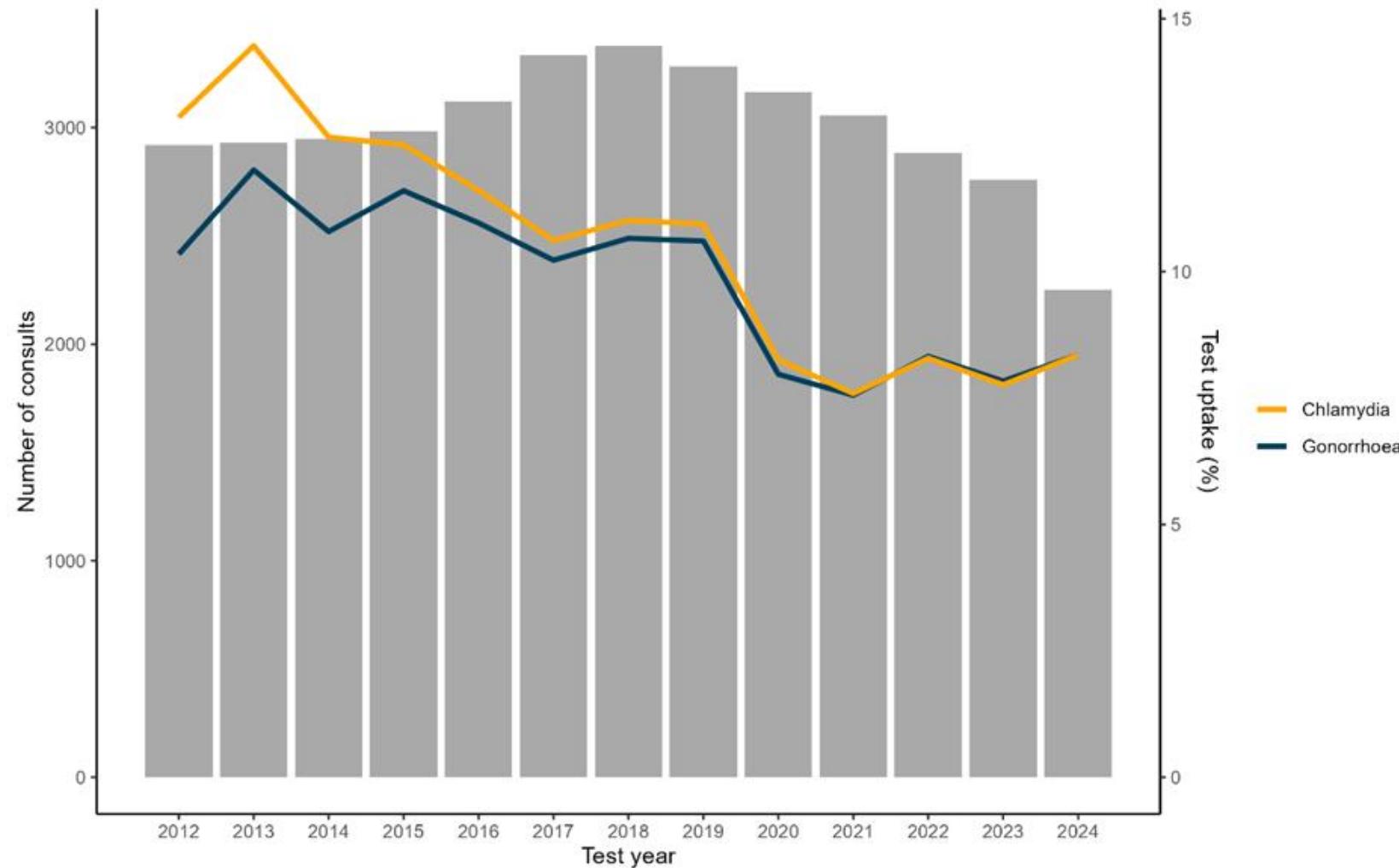


Figure 1. Chlamydia and gonorrhoea test uptake by year, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, n=6,581

# Chlamydia and gonorrhoea testing by age group

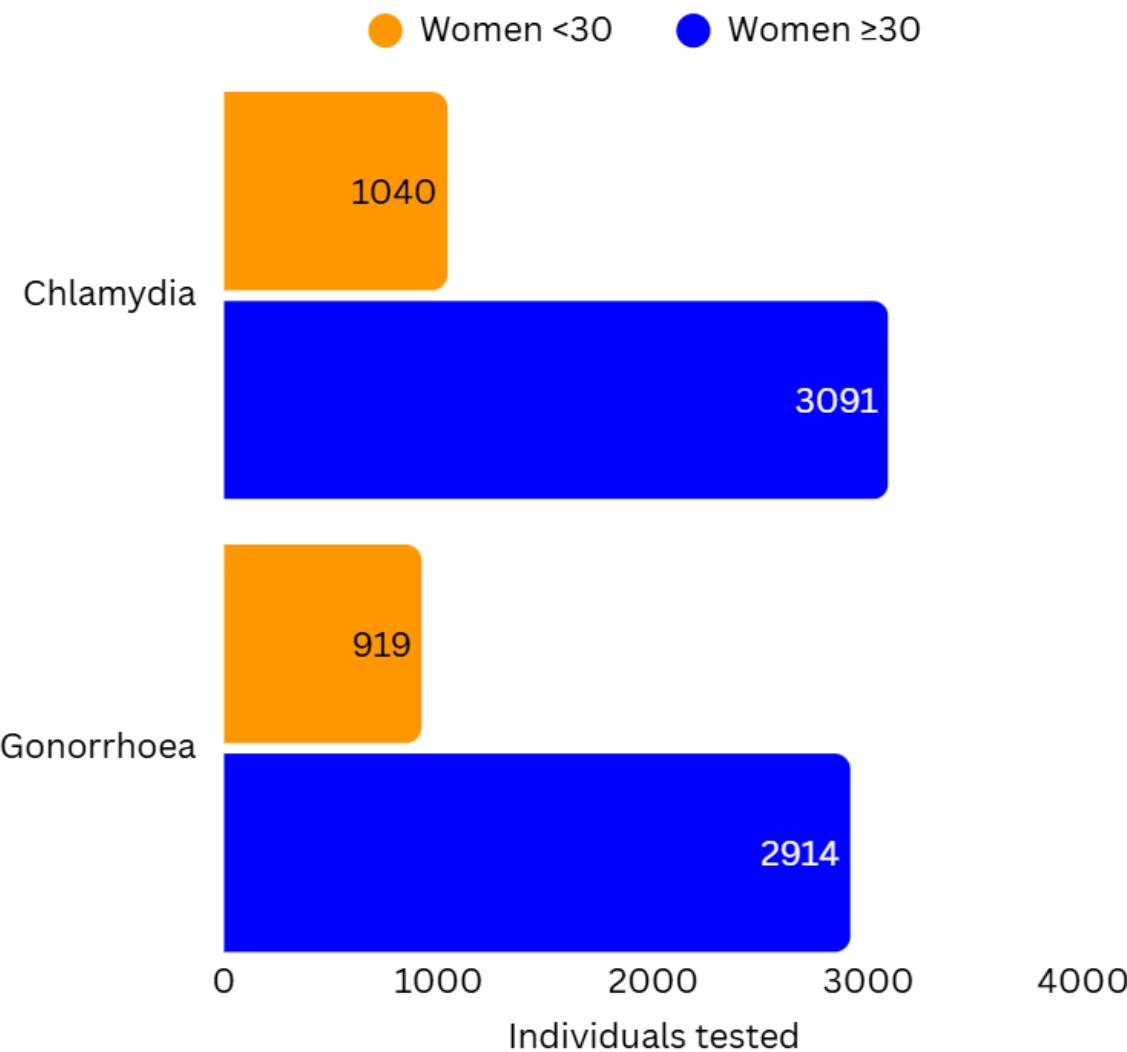


Figure 2. Chlamydia and gonorrhoea testing by age group, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia.



# Testing by site type

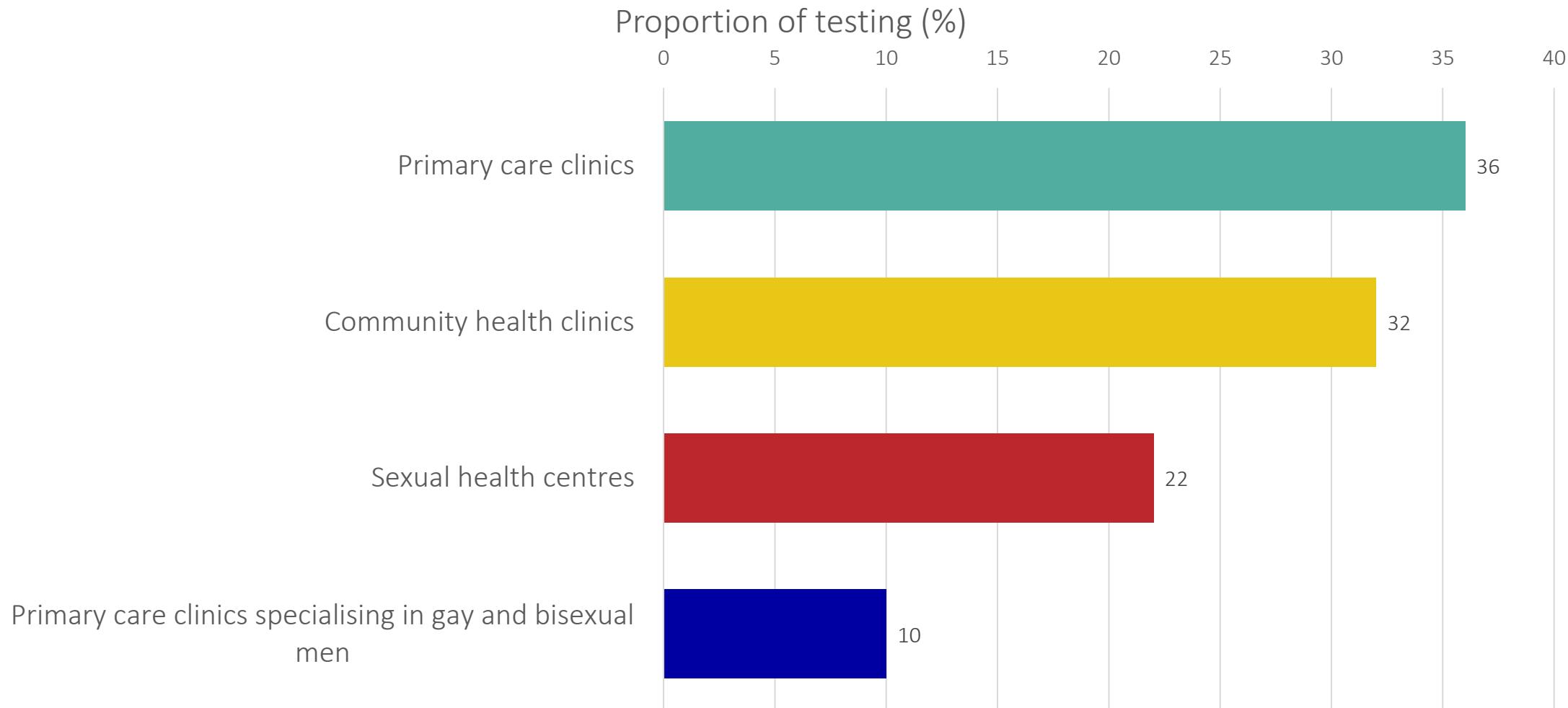


Figure 3. Chlamydia and gonorrhoea testing by site type, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia.



# Testing and positivity

## Chlamydia

**2,134**

women tested for  
chlamydia

**4,132**

chlamydia tests  
observed

**148**

women had a positive  
chlamydia test

## Gonorrhoea

**2,008**

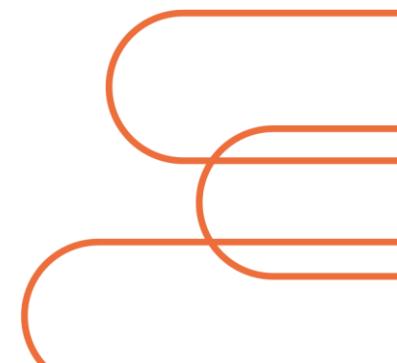
women tested for  
gonorrhoea

**3,833**

gonorrhoea tests  
observed

**94**

women had a positive  
gonorrhoea test



# Test positivity by year: chlamydia

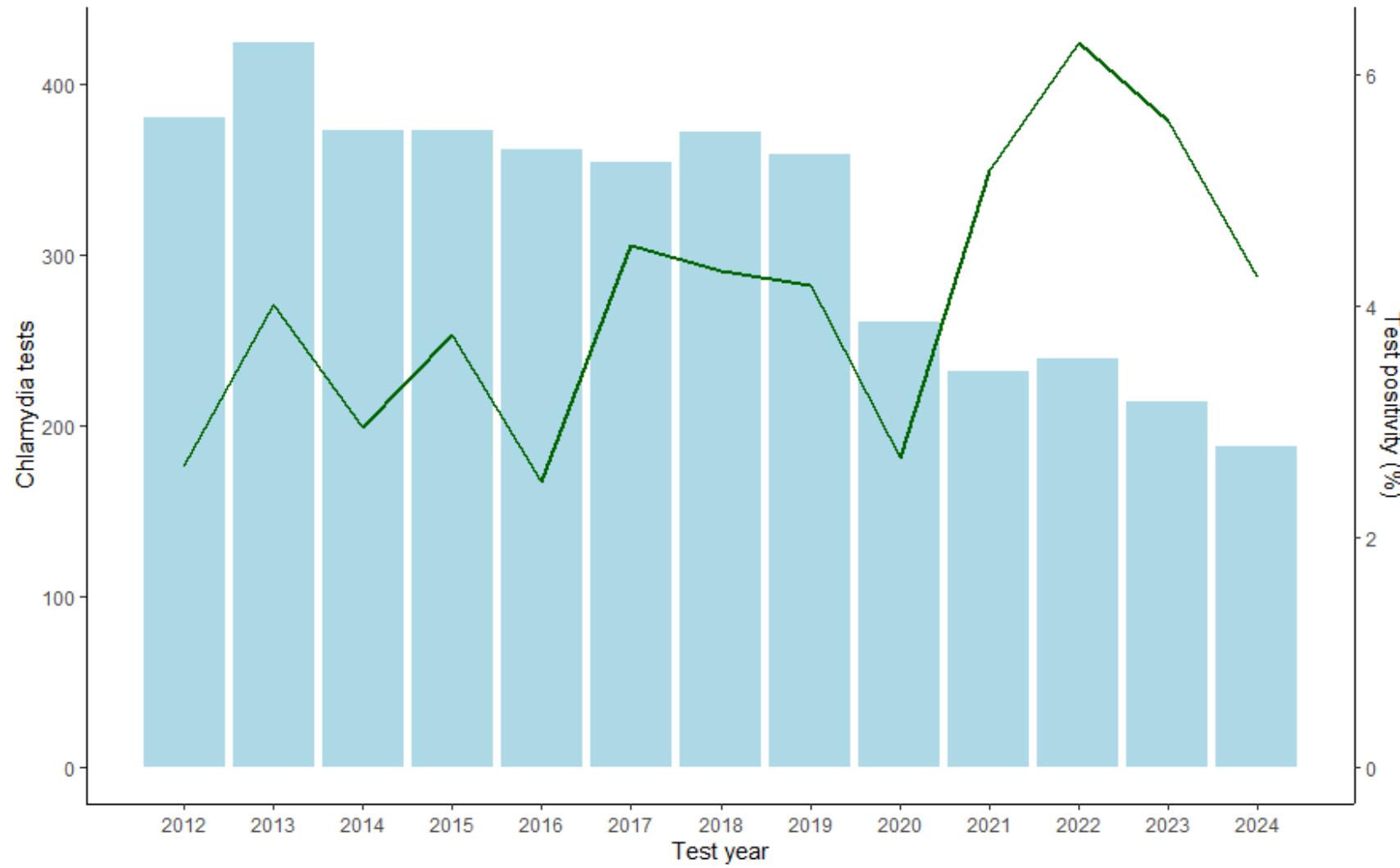


Figure 4. Tests observed and test positivity for chlamydia, by year, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024 (n=2,134).

# Test positivity by year: gonorrhoea



Figure 5. Tests observed and test positivity for gonorrhoea, by year, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024 (n=2,008).

# Test positivity by age-group

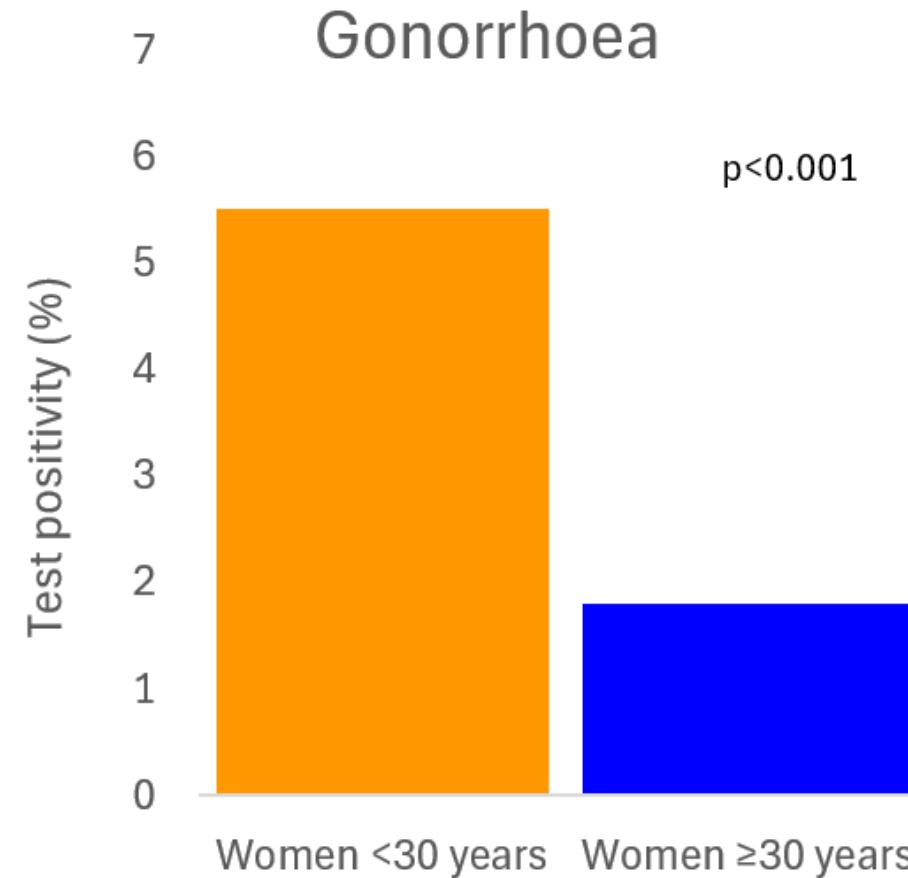
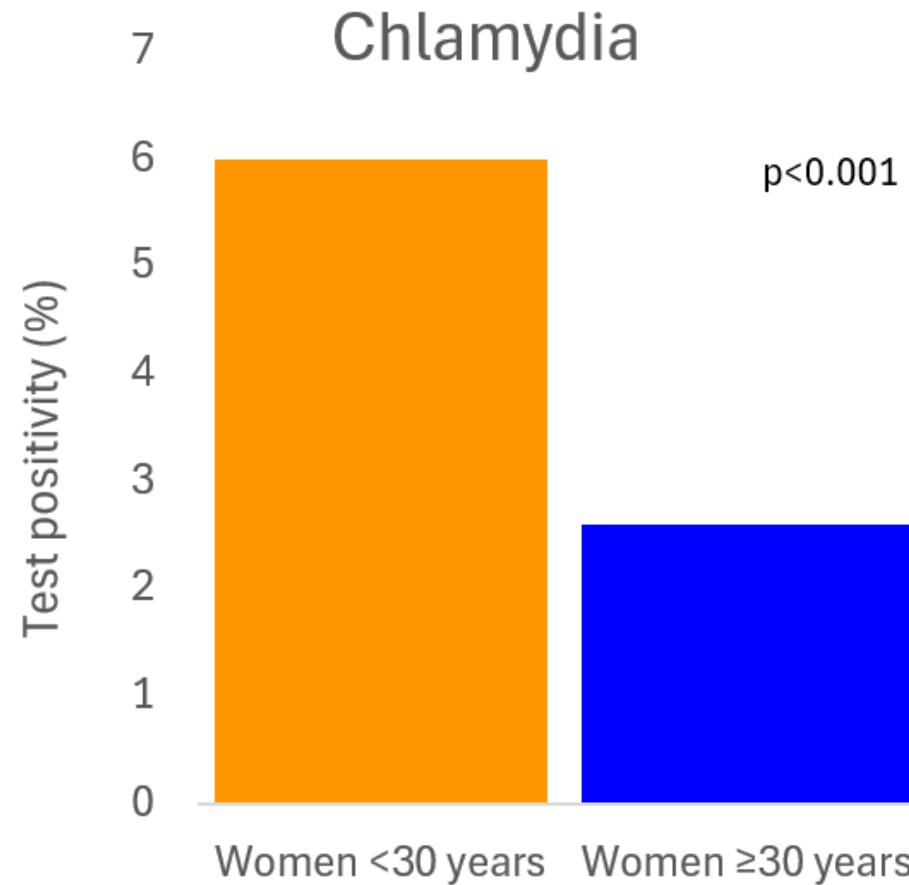


Figure 6a and b. Test positivity for chlamydia and gonorrhoea, by age-group, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024.

# Test positivity by site type

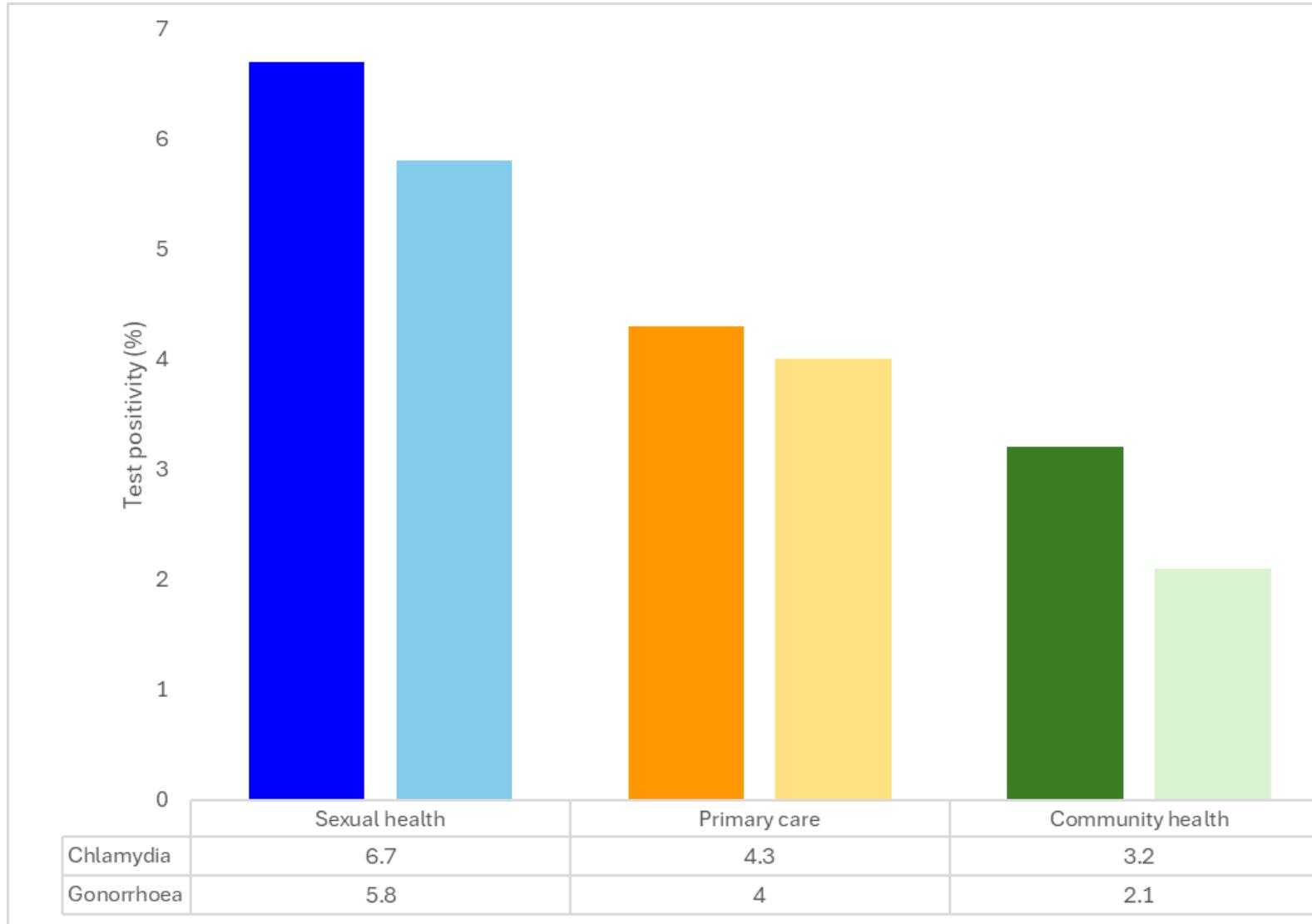


Figure 7. Test positivity for chlamydia and gonorrhoea, by site type, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024.



# Re-testing and re-infection: chlamydia

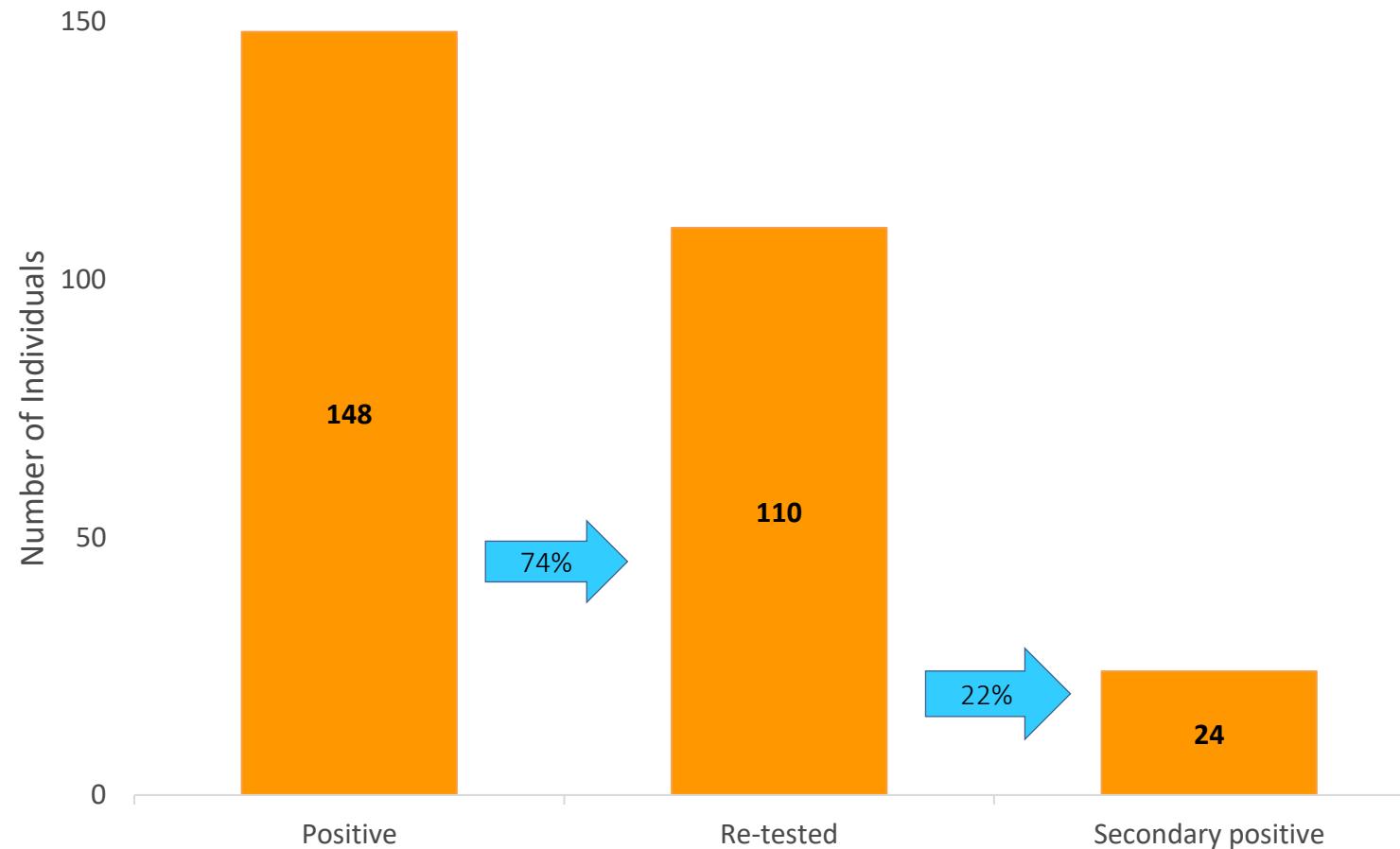


Figure 8. Chlamydia re-testing and reinfection for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024 (n=148).



# Re-testing and re-infection: gonorrhoea

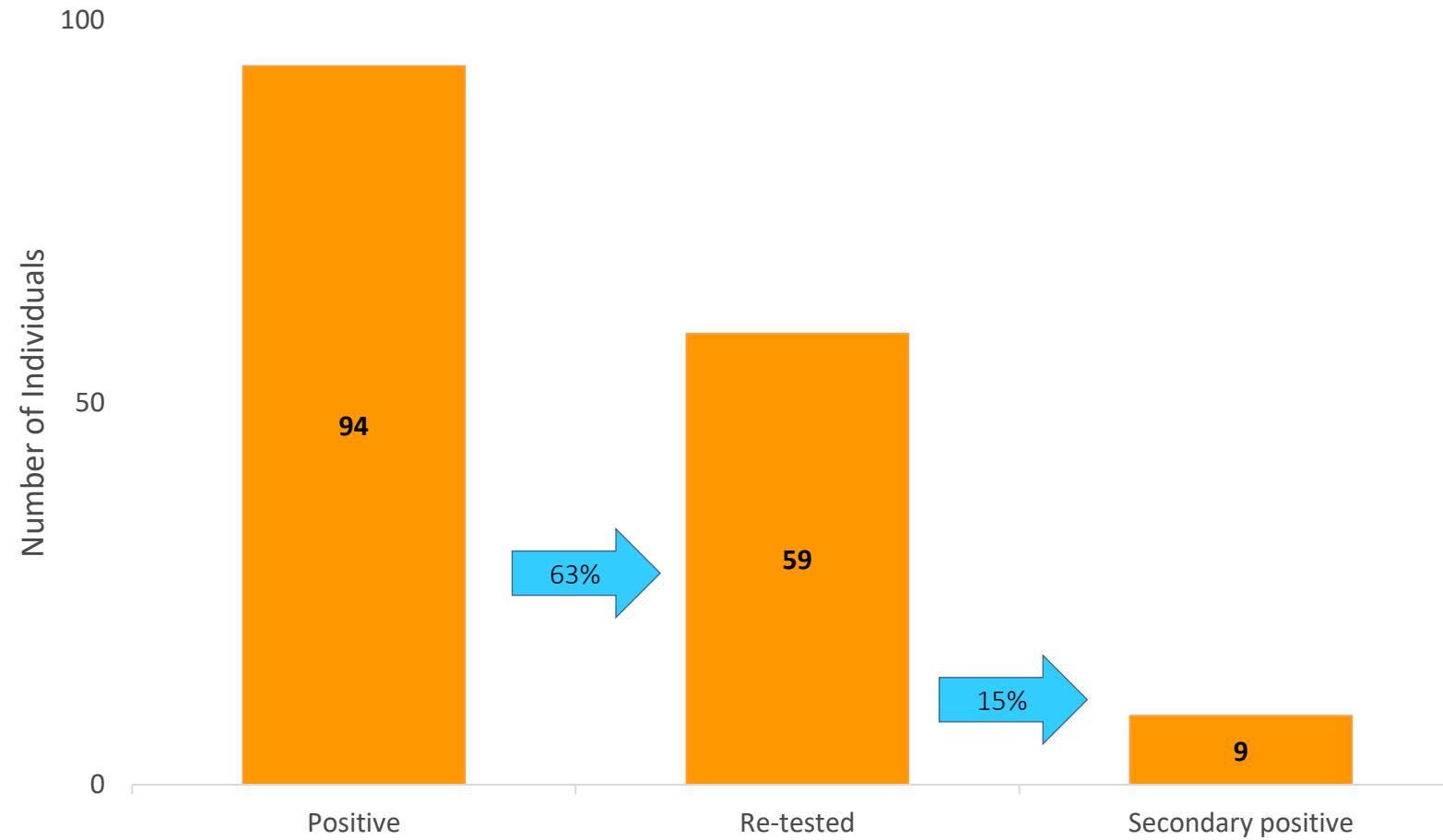


Figure 9. Gonorrhoea re-testing and reinfection for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024 (n=94).



# Implications



Test positivity among women on OAT increasing over time

Despite this, only 33% of women on OAT were tested for chlamydia or gonorrhoea in the study period

Higher risk of infection among younger women

Despite clinical guidelines, only 2/3 of those with gonorrhoea infection were re-tested

Secondary infections suggest either sub-optimal treatment or re-infection



# Limitations

- Care outside of ACCESS network is not captured
- OAT prescription is only a proxy for injecting drug use
- OAT prescription does not necessarily indicate ongoing drug use or ongoing risk
- Chlamydia and gonorrhoea testing among women aged 15-55 may be part of prenatal screening



# Acknowledgments

- Co-authors: Jason Asselin, Michael Traeger, Rebecca Winter, Nyssa Watson, Brendan Quinn, Vincent Cornelisse, Nathan Ryder, Eugene Athan, Jenny McCloskey, Dan Baker, Louise Owen, Eric Chow, Rebecca Guy, Mark Stoové, Margaret Hellard, Anna Wilkinson
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# Thank you

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# Test positivity by year

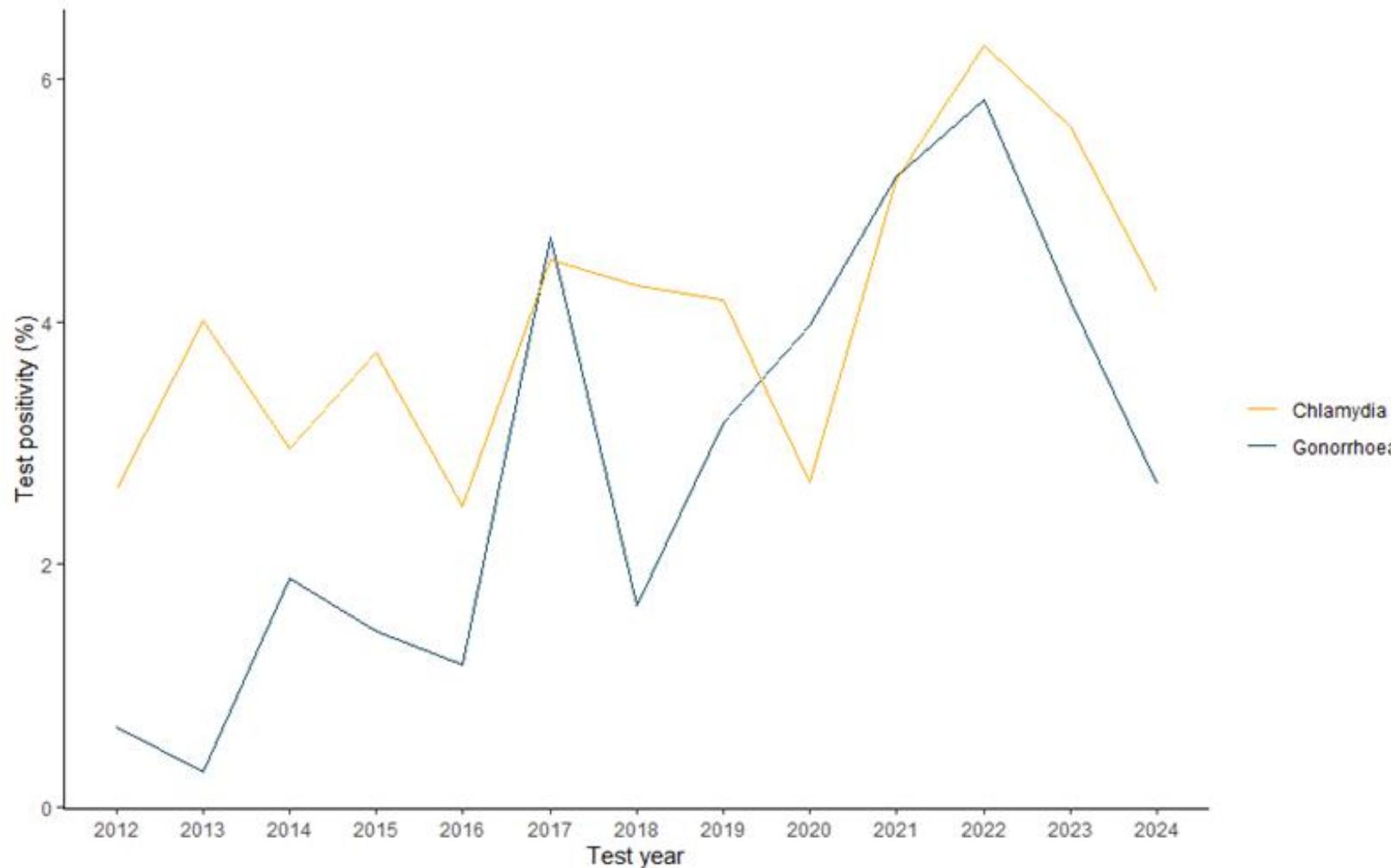


Figure 10. Test positivity for chlamydia and gonorrhoea, by year, for women aged 15–55 with evidence of prescription for OAT, ACCESS, Australia, 2012–2024 (n=2,159).

