

Results from EPIC-NSW, a large PrEP access study

Rebecca Guy on behalf of the EPIC-NSW team

ASHM, Sep 2018

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EPIC-NSW: Expanded PrEP Implementation in Communities

- Implementation study of TDF/FTC PrEP
- Targeted at those at high-risk, using local guidelines
 - Condomless sex with casual partners
 - Condomless sex with regular partner, detectable viral load
 - Rectal STI or syphilis
 - Methamphetamine use
- Commenced March 2016, initial target of 3700
 - expanded in October 2016 so that all eligible gay and bisexual men could receive PrEP as quickly as feasible
- 3-monthly follow-up with HIV and STI testing

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Primary outcome 1: within cohort

- 3700 participants
- Expected ~66 new infections without PrEP

• 2 confirmed new HIV infections

- 1 was dispensed but never commenced PrEP
- 1 took no PrEP for months prior to infection
- Incidence rate 0.05/100 person-years (95%CI 0.01-0.20)

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UNSW Kro Results: recent HIV infections in MSM in NSW, before and after PrEP, by region of birth 90 80 70 60 -49% 50 Before 40 · -21% 30 After



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Gonorrhoea positivity (2+ tests prior to PrEP, no prior PrEP)





Conclusions: reductions in HIV diagnoses

- Targeted PrEP roll-out at scale led to a substantial decline in new HIV infections at the state-wide level
 - Dropped by 32% in the year following complete recruitment
 - An historically unprecedented reduction in recent infections
- Least reduction in recent infections in
 - Young gay and bisexual men
 - Gay and bisexual men living outside the Sydney "gay" suburbs
 - Non-English speaking overseas-born gay and bisexual men
 - Campaigns by ACON

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Challenges for the future

- Guided by mathematical modelling, we need to reach 90% coverage of PREP in higher risk HIV negative men
- Identify patients who would benefit from PrEP
 - Condomless sex with casual partners
 - Diagnosed with an STI
 - Methamphetamine use
 - Condomless sex with regular partner, detectable viral load

• Ensure full STI screening is conducted quarterly

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The EPIC-NSW Research team

Kirby Institute	NSW Ministry of Health	Site investigators	Site investigators
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The EPIC-NSW Site Coordinators

EPIC-NSW Site

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