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NZPrEP: An HIV PrEP demonstration project with equity quotas in Auckland NZ

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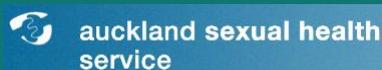
IUSTI AP/NZSHS/ASHM Sexual Health Congress Nov 1-3 2018



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Acknowledgements

Institutional support



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Participants

Funding



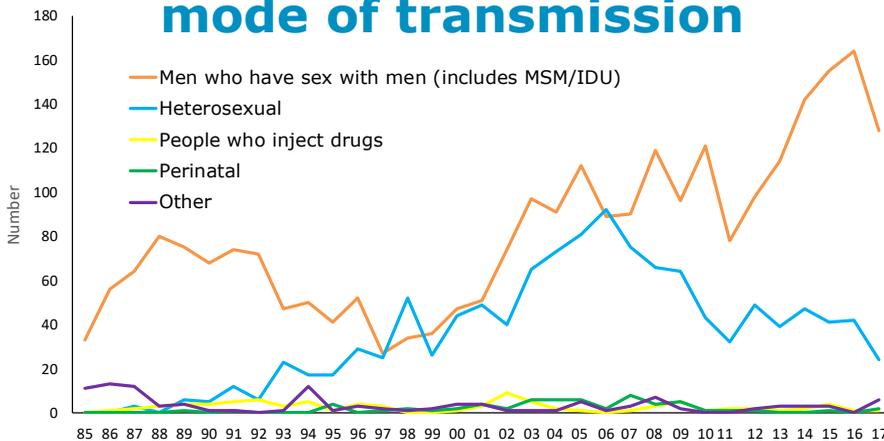
Community Pharmacists
Eric Ho and Tony Sie

PLWH= 3,678
Diagnosed on ART= 2,491



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Annual HIV diagnoses in NZ: mode of transmission



Note: Does not distinguish between infections acquired in New Zealand and overseas. Viral load testing diagnoses added since 2002.

Data provided by AIDS Epidemiology Group, Department of Preventive and Social Medicine, University of Otago.

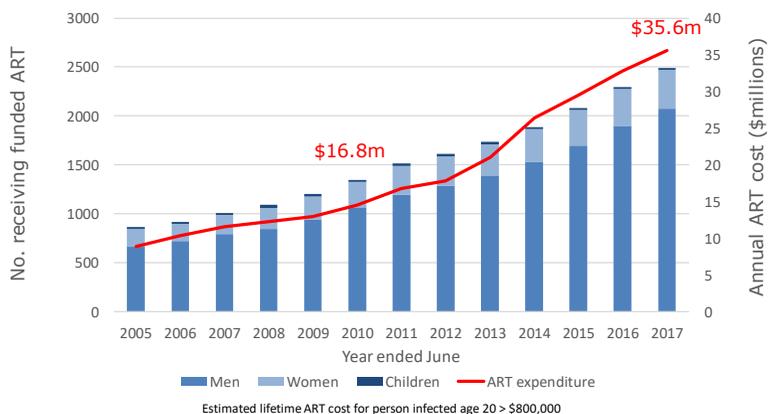
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Rising HIV treatment and cost

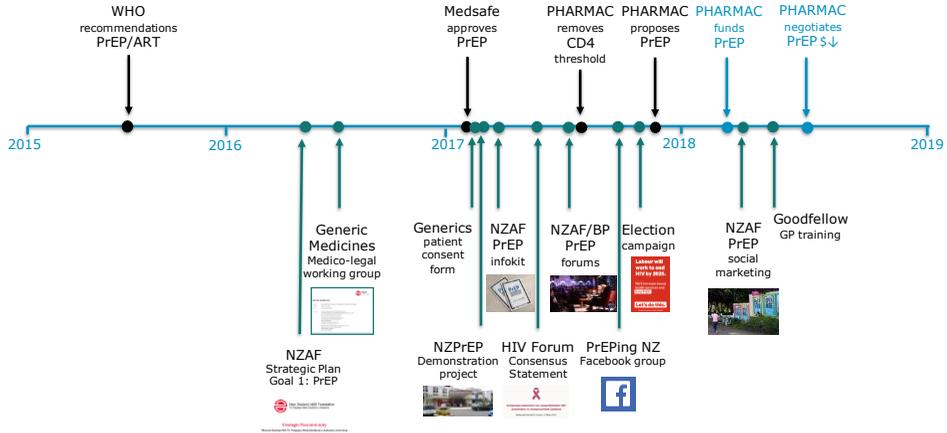
No. receiving funded HIV treatment and treatment cost



Estimated lifetime ART cost for person infected age 20 > \$800,000

Pharmac data July 2017

PrEP milestones in NZ



1 Mar 2018



PHARMAC PrEP eligibility

HIV negative & likely to have inconsistent condom use >3m:

- 1) Partner of a person with HIV (HIV untreated, unsuppressed)
 - inconsistent condom use
- 2) Gay or bisexual man or transperson having sex with men
 - inconsistent condom use during receptive anal intercourse with casual partners <3mths, OR
 - rectal bacterial STI <3mths, OR
 - methamphetamine <3mths



Equity and HIV

Non-European GBM in NZ not more likely:

- diagnosed with HIV¹
- prevalent HIV²

But

- ↑ % newly diagnosed are Asian³
- ↑ likely HIV diagnosed late / AIDS⁴

United States

- Black GBM ↓ engage and adhere to PrEP⁵

¹Shea et al 2011; ²Saxton et al 2012; ³AEG 2018; ⁴Dickson et al 2011; ⁵Liu et al. 2016



Aims

- today**
- Describe baseline characteristics of early PrEP adopters accessing funded PrEP in a sexual health clinic (n=150 max)
- 2019**
- Factors associated with suboptimal retention and adherence
 - Factors associated with sexual behaviour change



NZPrEP methods

- 150 participants funded
- Demonstration project, not an access scheme
- Equity important principle. Power calculations:
- Non-Euro = 50% of entry sample (n=75), 85% power to detect if non-Euro retention is 60% or lower vs 80% in Euro.
- Maori = 20% of entry sample (n=30), 72% power to detect if Maori retention is 60% vs 80% among non-Maori.



Questionnaire

- Clinic emailed participants link to online questionnaire
- Self-completed online, data linkage via unique study ID
- 70 items
- Demographics, testing history, sexual behaviour, drug use, attitudes (HIV, PrEP, condoms, STIs), future expectations
- Data management using surveymonkey, excel and Stata by University of Auckland (responses kept separate from clinic)

Sample n=150



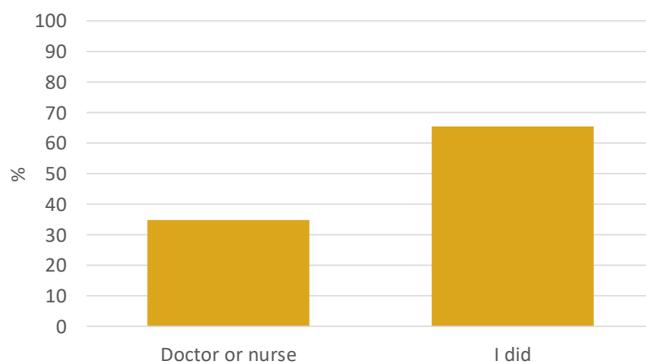
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	n	%	
<30	62	43.3	Range=18-55, median=31
30+	81	56.6	
European only	72	48.0	} 52% Non-European (total response method)
Maori	32	21.3	
Pacific	13	8.7	
Asian	29	19.3	
MELAA	10	6.7	
Central Auckland	88	58.7	
Rest of Auckland	62	41.3	
Less than tertiary degree	67	44.7	
Tertiary degree	83	55.3	
Gay	138	92.0	
Bisexual or other	12	8.0	



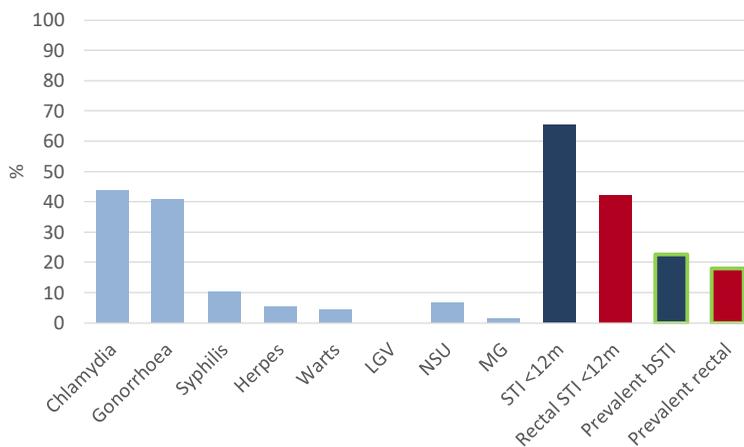
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Who suggested joining PrEP study?

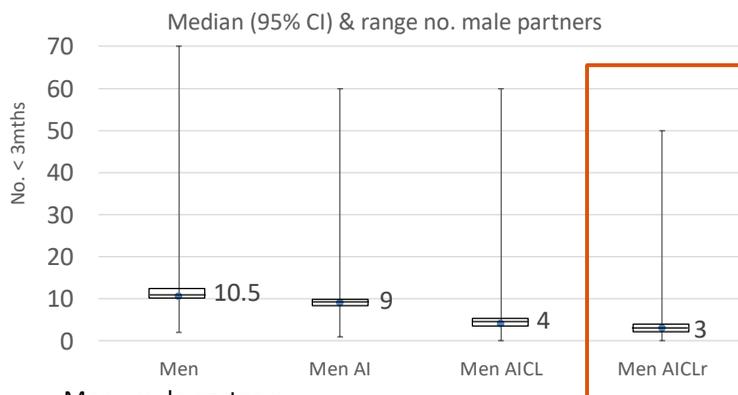




STI diagnosed <12m



Sexual behaviour <3m



Men : male partners

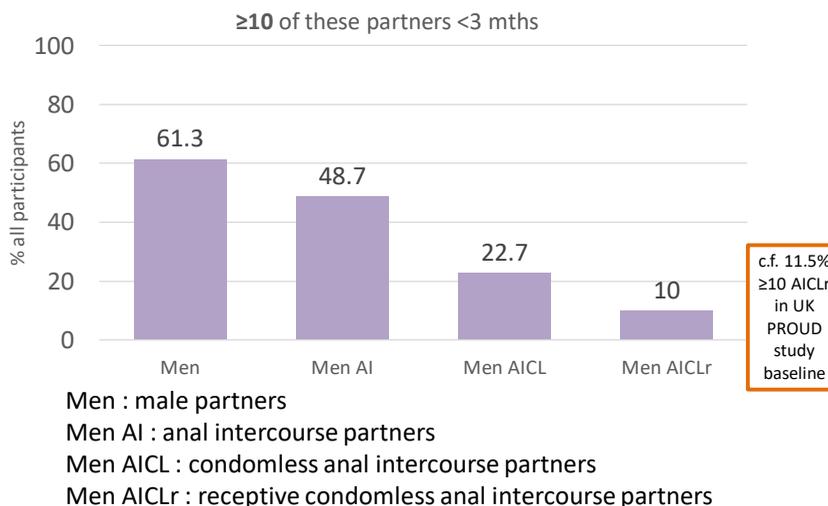
Men AI : anal intercourse partners

Men AIcL : condomless anal intercourse partners

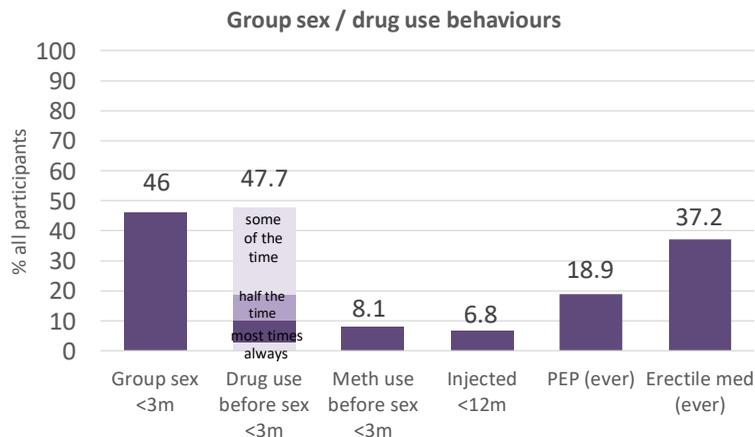
Men AIcLr : receptive condomless anal intercourse partners



Sexual behaviour <3m



Group sex, drug use, PEP



PrEP recommended vs self-referral

Same behavioural risk profile

More likely to:

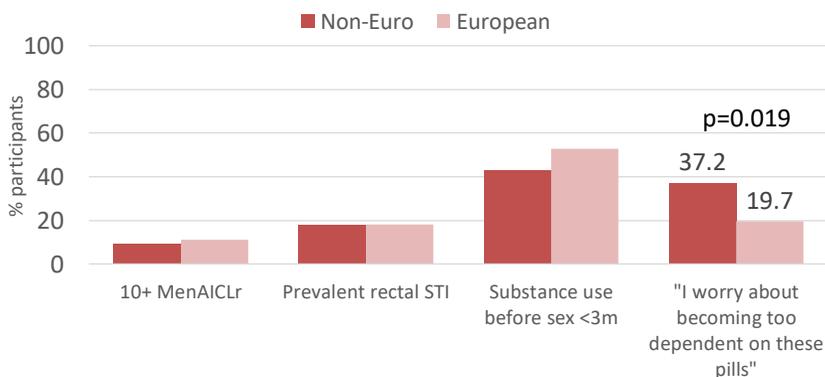
- Live outside city centre
- Cite doctor's advice
- Recent STI history

Less likely to:

- Tertiary degree
- Cite gay community channels



Non-European vs European





Why enrol? (own words)

“Because I want to stay safe. And keep my sexual partners safe too. Prep could help reduce infections and wipe out Hiv in New Zealand.”

“felt anxious about my sexual 'mishaps' on a more frequent basis and knew I needed to act to protect myself.”

“Until a cure is found. Prevention Is the best way I can protect my self and the people I choose to have sex with.”



Summary

- **Fully funded PrEP** in SHC in Auckland attracts high risk GBM
- **Awareness and access** to PrEP wasn't even
- **Equity** lens will help identify suboptimal experiences
- “Equal benefit” impt target for **implementation phase**
 - 5847 estimated eligible for funded PrEP in NZ⁶
 - 1144 funded prescriptions in first 6 mths⁷

⁶Saxton & McAllister 2018; ⁷PHARMAC data to Aug 2018;



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More information:

Saxton PJ, Azariah S, Franklin RA, Forster RF, Werder SF, Jenkins R, Myers JM, Rich JG, Te Wake WP, Fisher MD. Baseline characteristics of gay and bisexual men in a HIV pre-exposure prophylaxis demonstration project with equity quotas in Auckland, New Zealand. *Sexual Health*. 2018 Online First <https://doi.org/10.1071/SH18056>