## PrEP scale up in New South Wales

Andrew Grulich Kirby Institute, UNSW









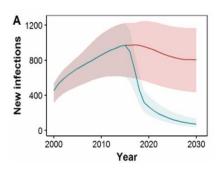




### Scale-up is guided by modelling

Modelling suggests...

- · Target to high-risk gay men
- Aim for high coverage (90%)
- Roll-out PrEP <u>quickly</u>
- Lower levels of roll out lead to much lower reductions in incidence
- Herd protection is a critical part of the population-level effect



R Gray et al, Wednesday 230pm Royal Theatre



#### A targeted, high-risk approach to PrEP roll-out

#### Overall HIV incidence in gay men in Sydney is 0.9/100py

High Risk behaviour in last 6 months	Incidence per 100py*	95% CI
Condomless sex with HIV positive regular partner	5.4	2.8-10
Receptive condomless sex with casual HIV-positive/status unknown partners	2.3	1.5-3.6
Rectal gonorrhoea	7.0	2.3-21
Rectal chlamydia	3.6	1.3-9.5
Methamphetamine use	1.9	1.3-2.8

\*Incidence from the Health in Men cohort study, Sydney 2001-07



# A targeted, high-risk approach to PrEP roll-out: 2017 versus 2014 estimates

	2014 "highest risk"	2017 "all high risk"
CLAI with regular sexual partner who has detectable VL	any	no change
Receptive CLAI with casual partner	Frequent	any
Rectal gono/chlamydia, or syphilis	Last 12 months	No change
Methamphetamine	Frequent	any
"ongoing risk requirement"	>10 partners	Not required
Year of behavioural risk data	2014	2016
Estimate	8.6% n = 3350	28% n = 9600



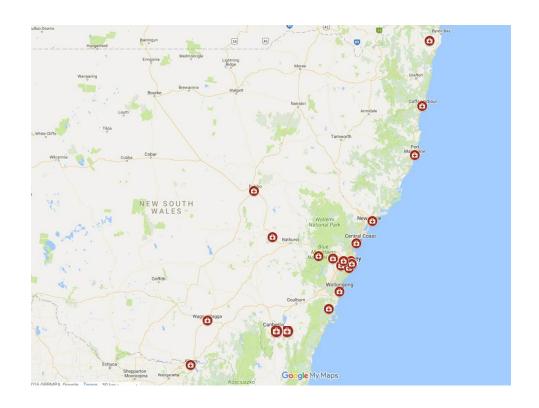
A once a day pill that keeps you HIV negative

\[
\begin{align\*}
\text{TEST \ OFTEN \} + \begin{align\*}
\text{STAY \ SAFE \} = \begin{align\*}
\text{END \cong \}
\text{IN 0 \cong \}
\text

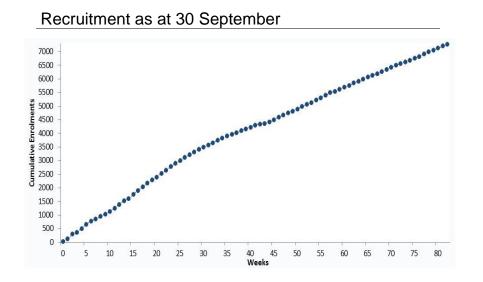


#### Key design features of EPIC-NSW

- An implementation research project conducted within a clinical trial framework, commencing March 2016
- · State-wide, in both public and private clinics
- Initial aim to have all GBM at high HIV-risk on PrEP by end 2016
  - 3700 men in a 10 month period
- Simple for clinics: HIV/STI/kidney toxicity outcomes collected through electronic medical record systems
- · Co-primary outcomes:
  - HIV incidence in the cohort and
  - HIV newly acquired diagnoses in the state









## **Demographics of EPIC participants to September 30**

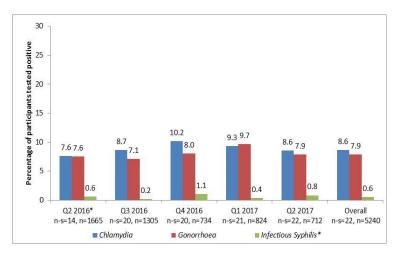
Characteristic	%
Gender	
Male	98.9
Female	0.1
Transgender, male-to-female	0.8
Transgender, female-to-male	0.2
Other	0.1
Sexual identity	
Gay/Homosexual	93.8
Bisexual	5.1
Heterosexual	0.5
Other <sup>£</sup>	0.6
Age at enrolment (years)	
< 20	1.2
20-29	28.3
30-39	34.8
40-49	22.0
≥50	13.7
Total*	100.0



### **Demographics of EPIC participants to September 30**



#### STI prevalence at baseline



http://www.health.nsw.gov.au/endinghiv/Documents/



#### System ready: life after EPIC-NSW

#### A smooth transition to PBS-supplied PrEP

- Continuing monitoring of consenting individuals through data linkage
- · Truly state-wide coverage of PrEP provision
- GP/pharmacy capacity building in PrEP provision, STI screening and management
- Equitable access as a key goal
  - Asian born gay and bisexual men
  - Young gay and bisexual men
  - Indigenous gay and bisexual men, transgender people, male sex workers

## The EPIC-NSW Research team



Kirby Institute	NSW Ministry of Health	Site investigators	Site investigators (cont)
David Cooper	Jo Holden	Debbie Allen	Nathan Ryder
Andrew Grulich	Christine Selvey	David Baker	David Smith
Rebecca Guy	Heather-Marie Schmidt	Mark Bloch	Emanuel Vlahakis
Jeff Jin	Dale Halliday	Katherine Brown	Don Smith
Janaki Amin	Kerry Chant	Christopher Carmody	Nick Doong
Iryna Zablotska	Bill Whittaker	Andrew Carr	David Townson
Barbara Yeung	<b>Community Organisations</b>	Kym Collins	Bradley Forssman
Ges Levitt	Nic Parkhill	Robert Finlayson	Daniel Chanisheff
Erin Ogilvie	Craig Cooper	Rosalind Foster	Gia Han Thai
Mo Hammoud	Levinia Crooks	Eva Jackson	Sarah Martin
Denton Callender	Matt Vaughan	David Lewis	Tuck Meng Soo
Lucy Watchirs-Smith	Karen Price	Josephine Lusk	Ben Anderson
Stefanie Vaccher		Anna McNulty	
Daminda Weerasinghe		Catherine O'Connor	
Nila Dharan		Phillip Read	

The EPIC-NSW study team thanks the over 7500 participants. EPIC-NSW is funded by the NSW Ministry of Health. We thank Gilead for providing a donation of Truvada for use in EPIC-NSW. Study drug is also purchased from Mylan pharmaceuticals.

## The EPIC-NSW Site Coordinators



#### **EPIC-NSW Site**

Albury & Wagga Sexual Health Clinics Canberra Sexual Health Centre Clinic 16

Coffs Harbour Sexual Health Clinic Crown St Medical Centre

Dr Doong's Surgery
East Sydney Doctors
Fountain Street General Practice

Green Square Health

Holdeworth House

Holdsworth House Medical Practice, Sydney

Illawarra Sexual Health Clinic Interchange General Practice Kirketon Road Centre Lismore Sexual Health Centre Liverpool Sexual Health Clinic

Nepean Hospital & Blue Mountains Sexual Health Clinics

Newcastle Community Health Centre Macleay Street Medical Practice Orange & Dubbo Sexual Health Clinics Royal Prince Alfred Sexual Health Short Street Clinic St Leonards Medical Centre

St Vincent's Hospital Sydney Sexual Health Centre Taylor Square Private Clinic

The Albion Centre

Western Sydney Sexual Health Centre

## Site Coordinator Alison Kincaid

Shannon Woodward **Brett Hadlow** Nives Houlihan Airisse Cortez Shane Hewitt Melissa Benson Anne Maree O'Brien Christina Van Prehn Michael Williamson Annabelle Caspersz Jodie-Lee Little Philip Habel Karen Chronister Andrew Buggie Almario Mangaran Adriana Trujillo Nathan Ryder (PI) David Townson (PI) Roisin Dyer Brett Sinclair Damien Brown Ben Andersen (PI) John McAllister Ruthy McIver Phuoc Loc Le Raghib Ahmad Melissa Power

7