



Where are we up to with HIV prevention in NSW,
and how does this compare to the rest of
Australia?

NSW Symposium, ASHM HIV Conference

Phillip Keen | **17th September 2019**

Summary

- **The key elements of HIV prevention in NSW**
 - HIV testing
 - HIV treatment
 - PrEP
 - Behavioural prevention/condom use
 - **Comparison with HIV trends in the rest of Australia**
-

NSW HIV Strategy 2016 – 2020

Quarter 4 & Annual 2018

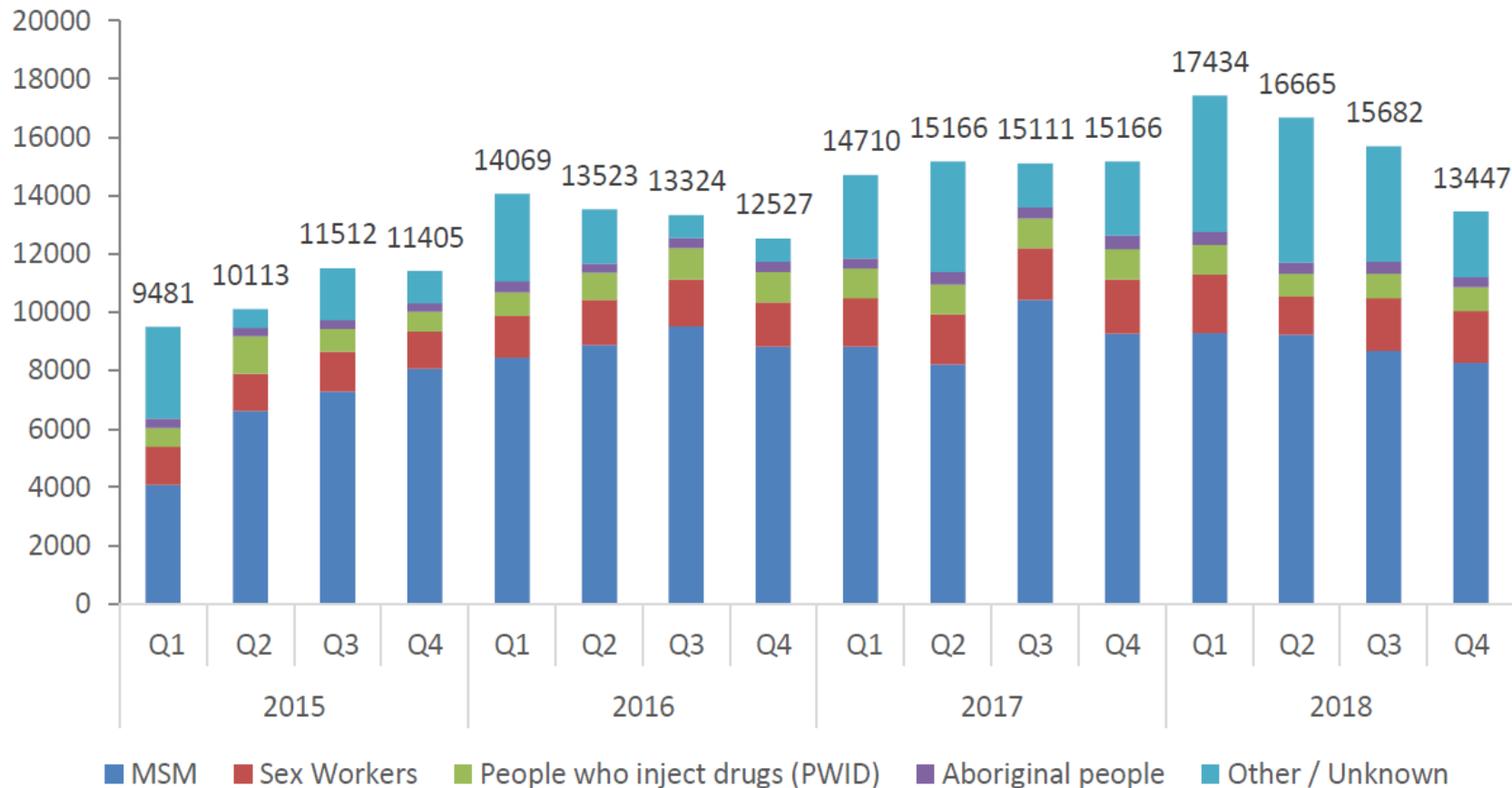
Data Report



HIV testing in NSW

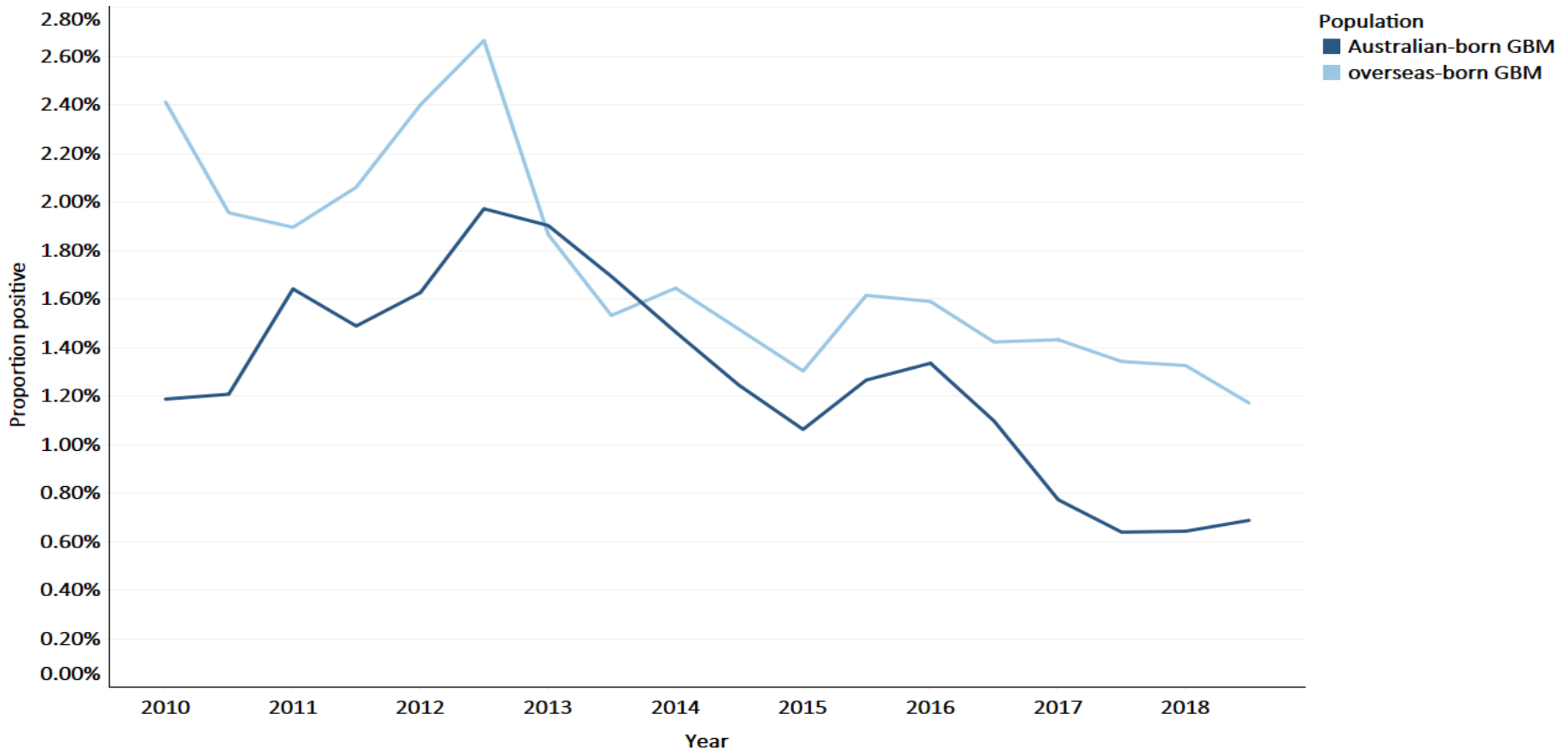
Steadily increasing HIV testing rates

Figure 19: Number of HIV tests performed in public sexual health clinics in NSW between 1 January 2015 and 31 December 2018, by quarter and priority population

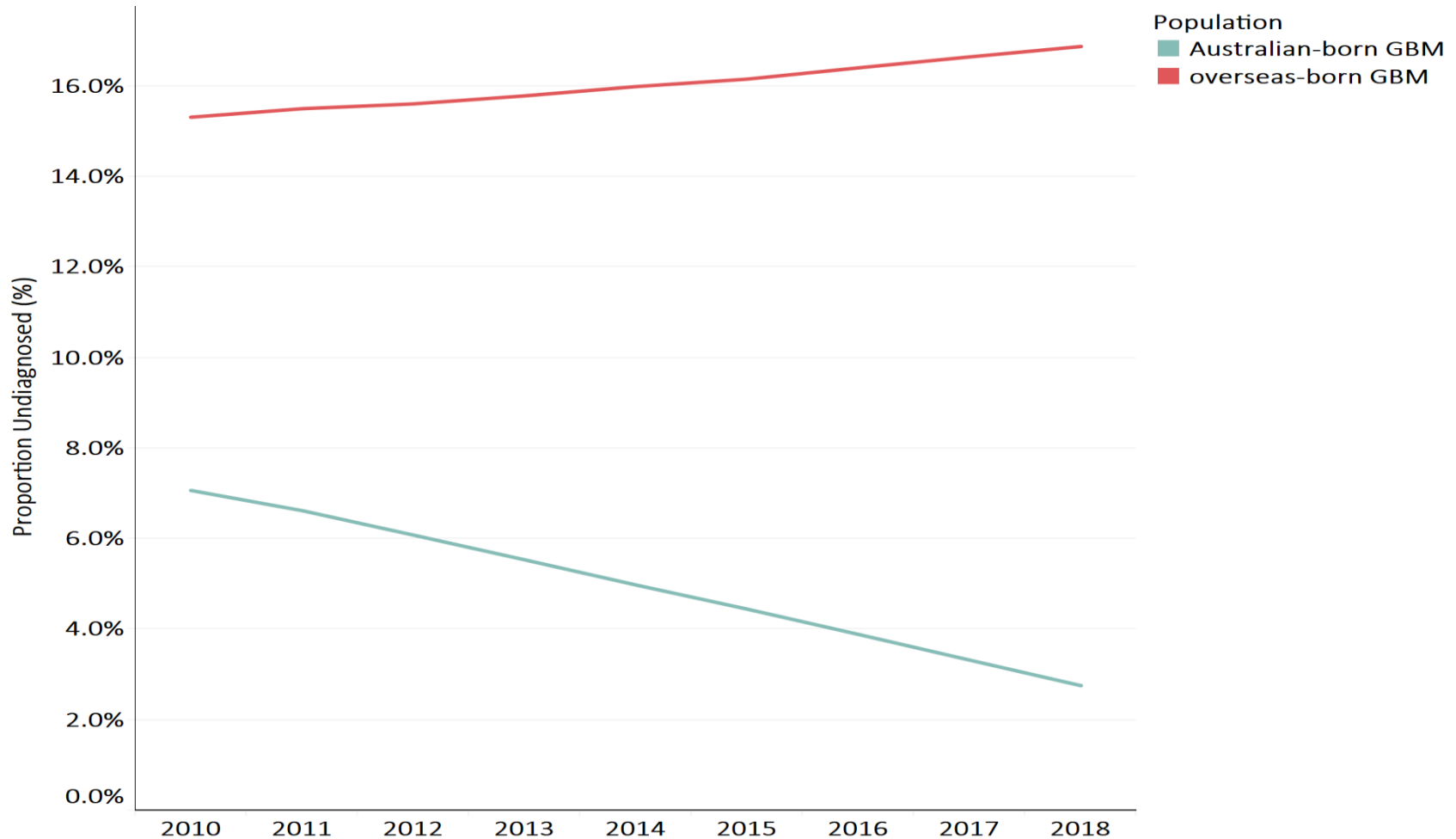


HIV test positivity in GBM, by place of birth

Increased testing has been associated with declining test positivity

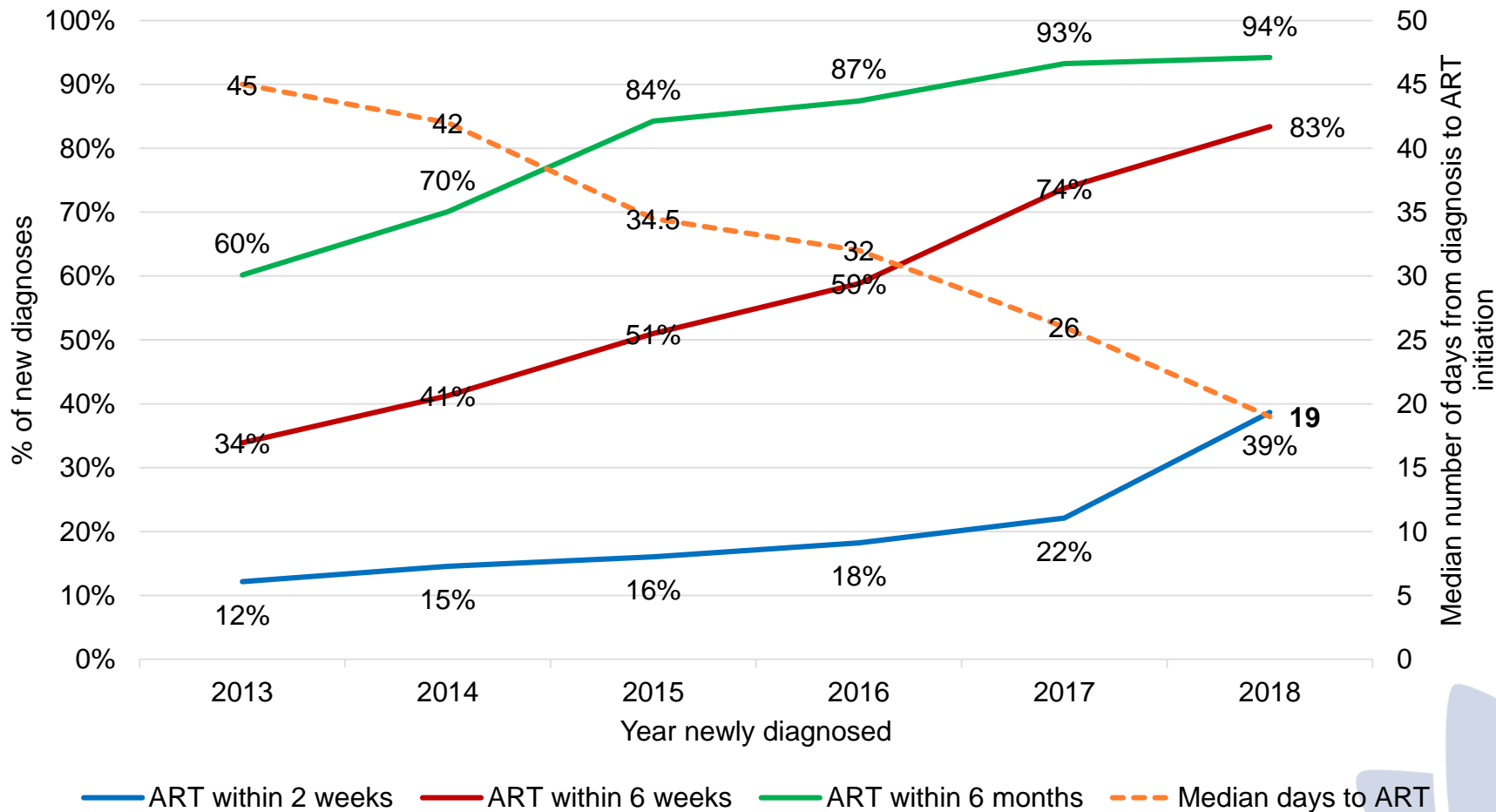


Proportion of HIV positive MSM undiagnosed, by place of birth



HIV Treatment following HIV diagnosis

Time to ARV treatment initiation by six months post-diagnosis



Predictors of early ART in NSW 2016-2018

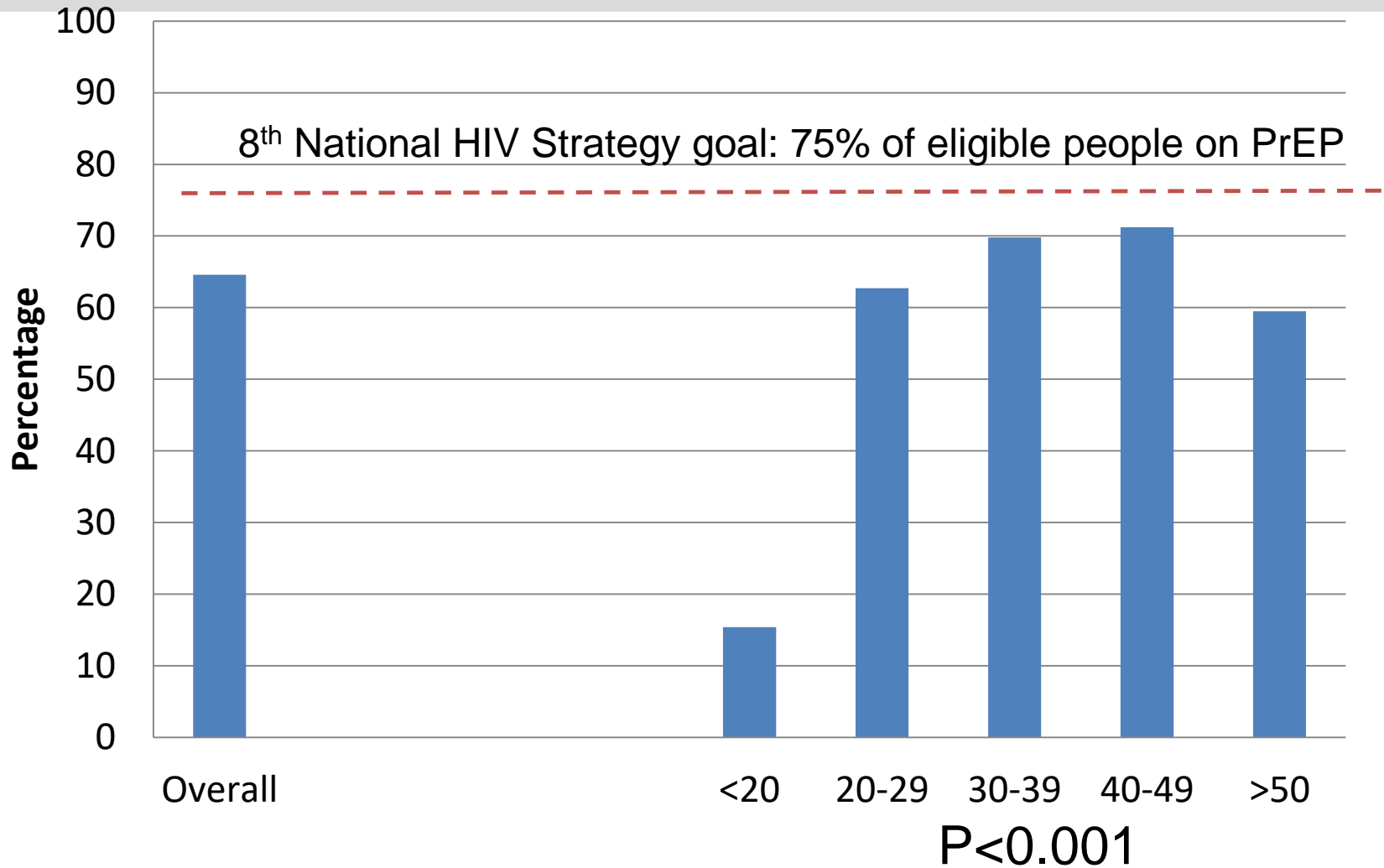
- Less likely to start within 2 weeks if :
 - Primary language not English
 - Diagnosed by non-S100GP
- Less likely to start <6 weeks if :
 - Diagnosed in 2016 vs 2018
 - 100,000 copies/mL vs <10,000 copies mL at diagnosis

[Kwendy Cavanagh, Wednesday, 4:00pm, Meeting room 3]

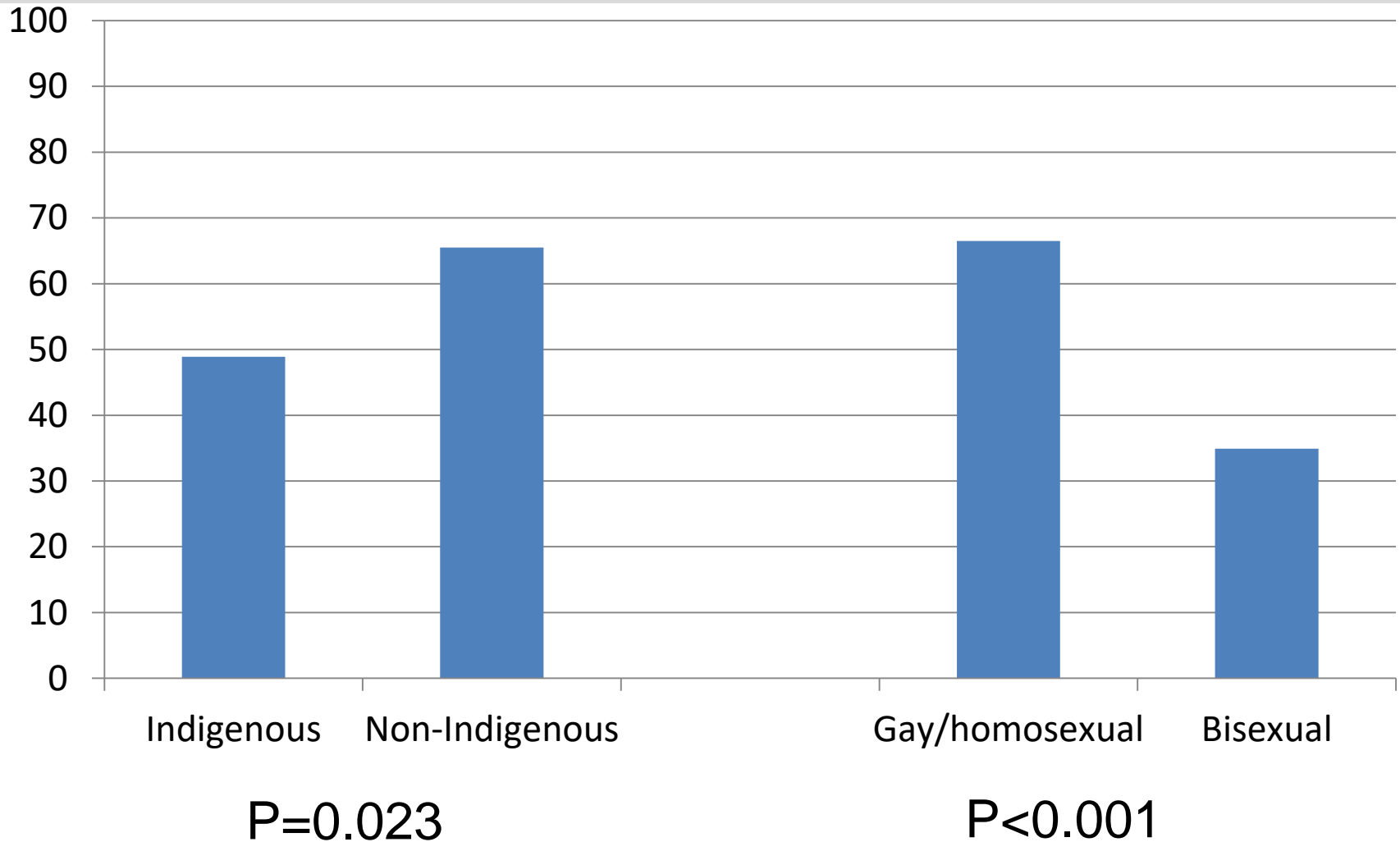
PrEP coverage among gay and bisexual men

2019 Sydney Gay Community Periodic Survey

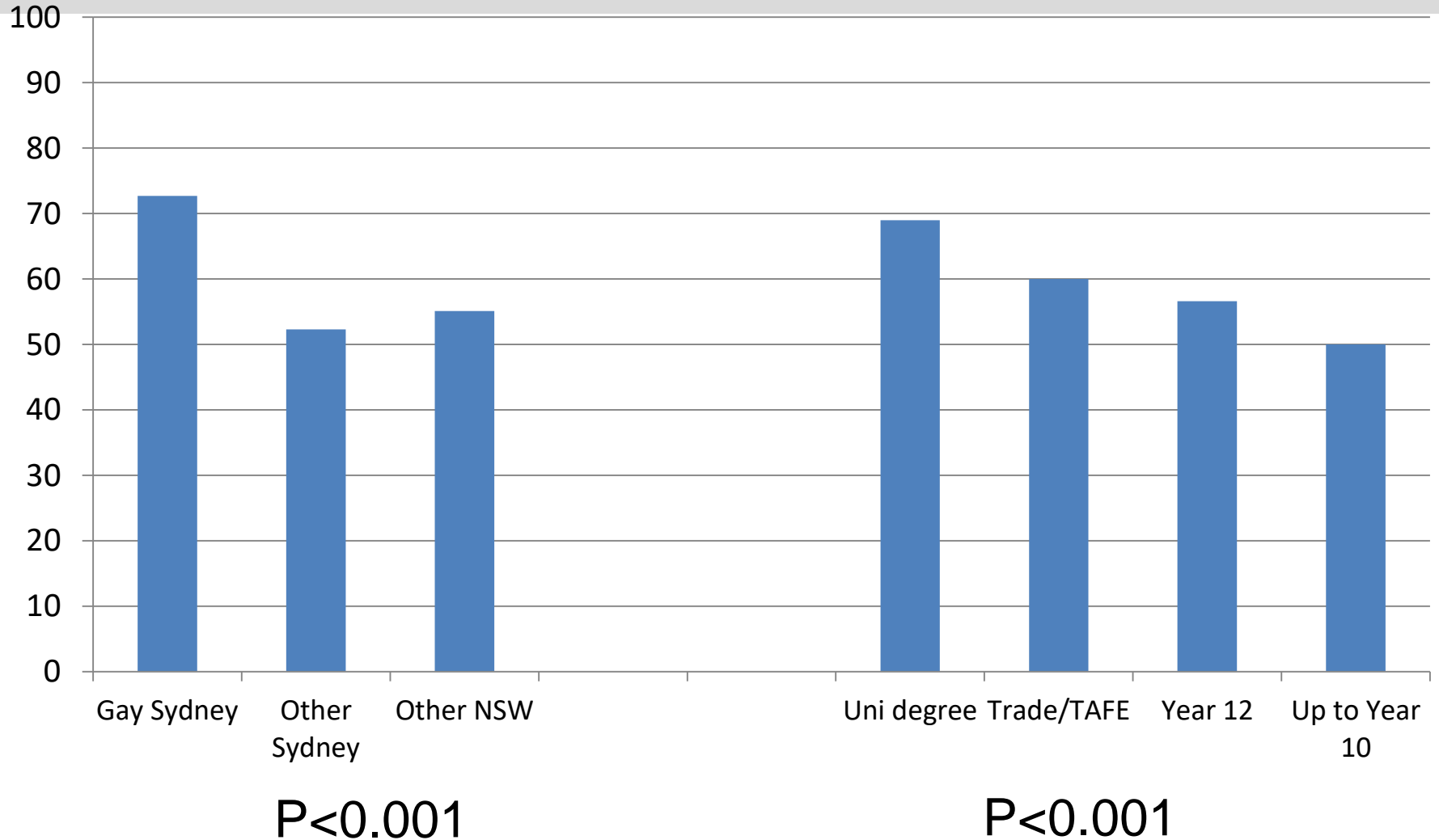
Proportion of GBM who reported CLAI with casual partners who received PrEP



PrEP coverage by indigenous status and sexual identity

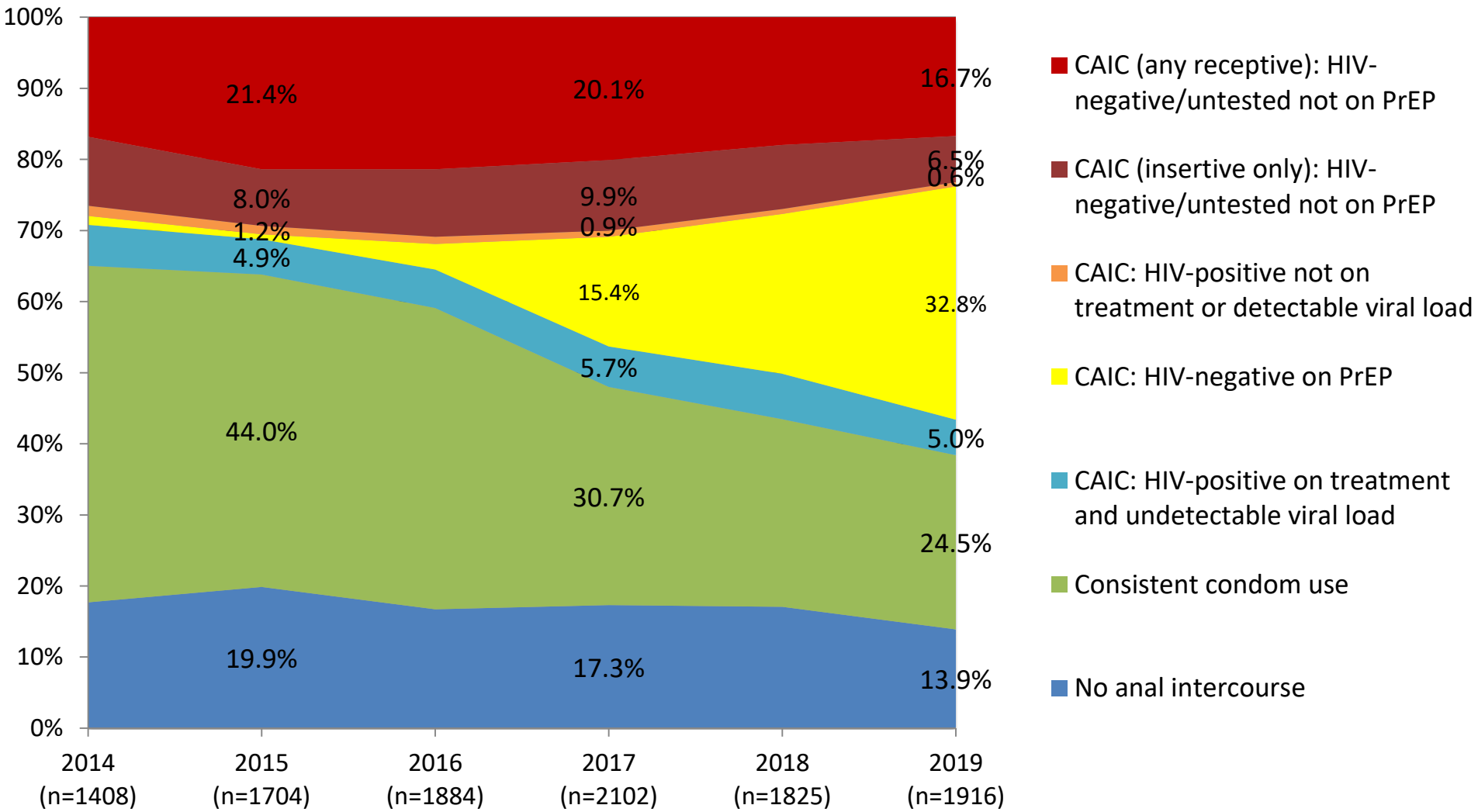


PrEP coverage by area of residence & educational achievement



Behavioural Surveillance

HIV behavioural risk category among men reporting casual sex, Sydney GCPS



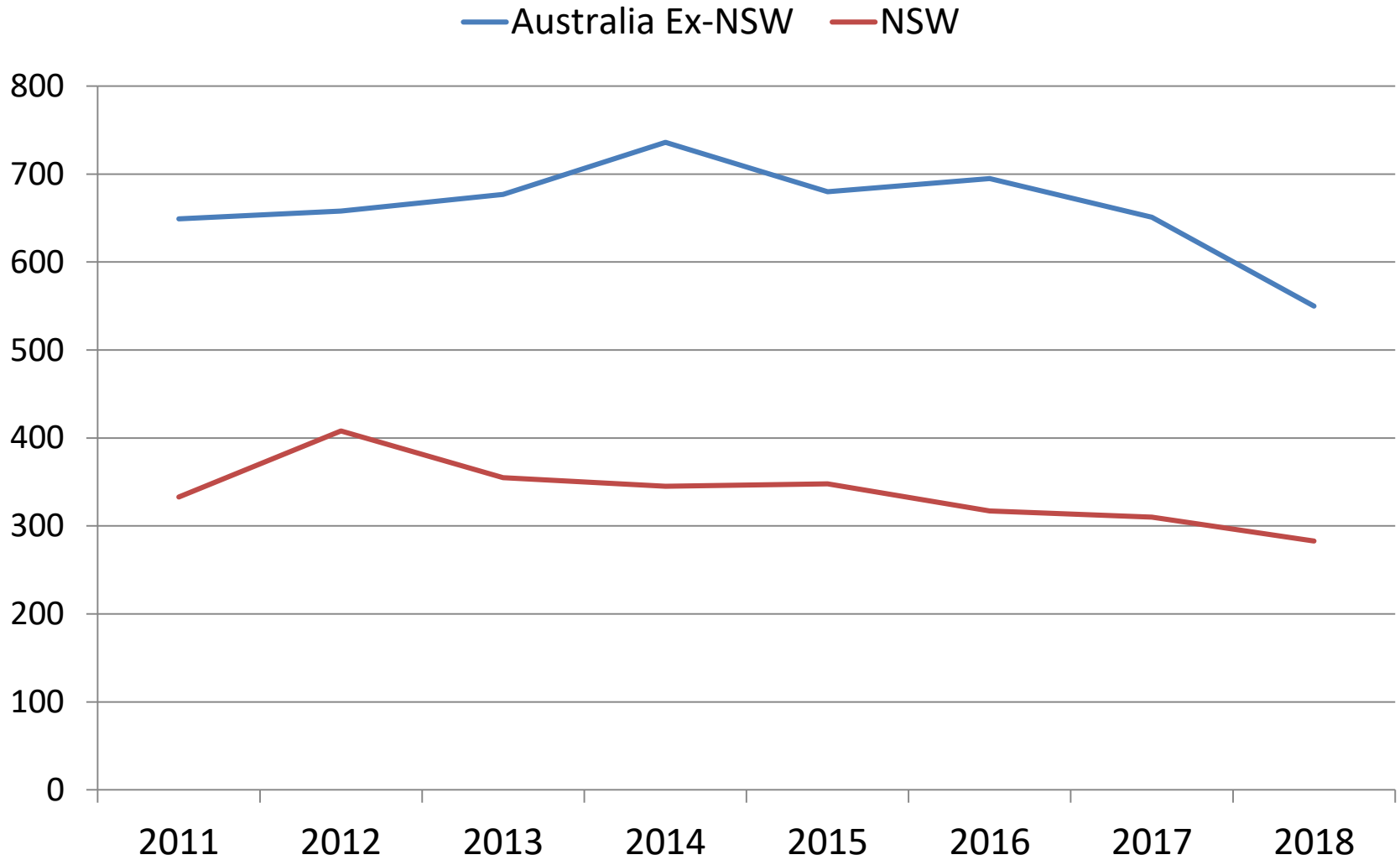
Source: 2019 Sydney Gay Community Periodic Survey, Centre for Social Research in Health

Comparison of HIV notifications data NSW and rest of Australia

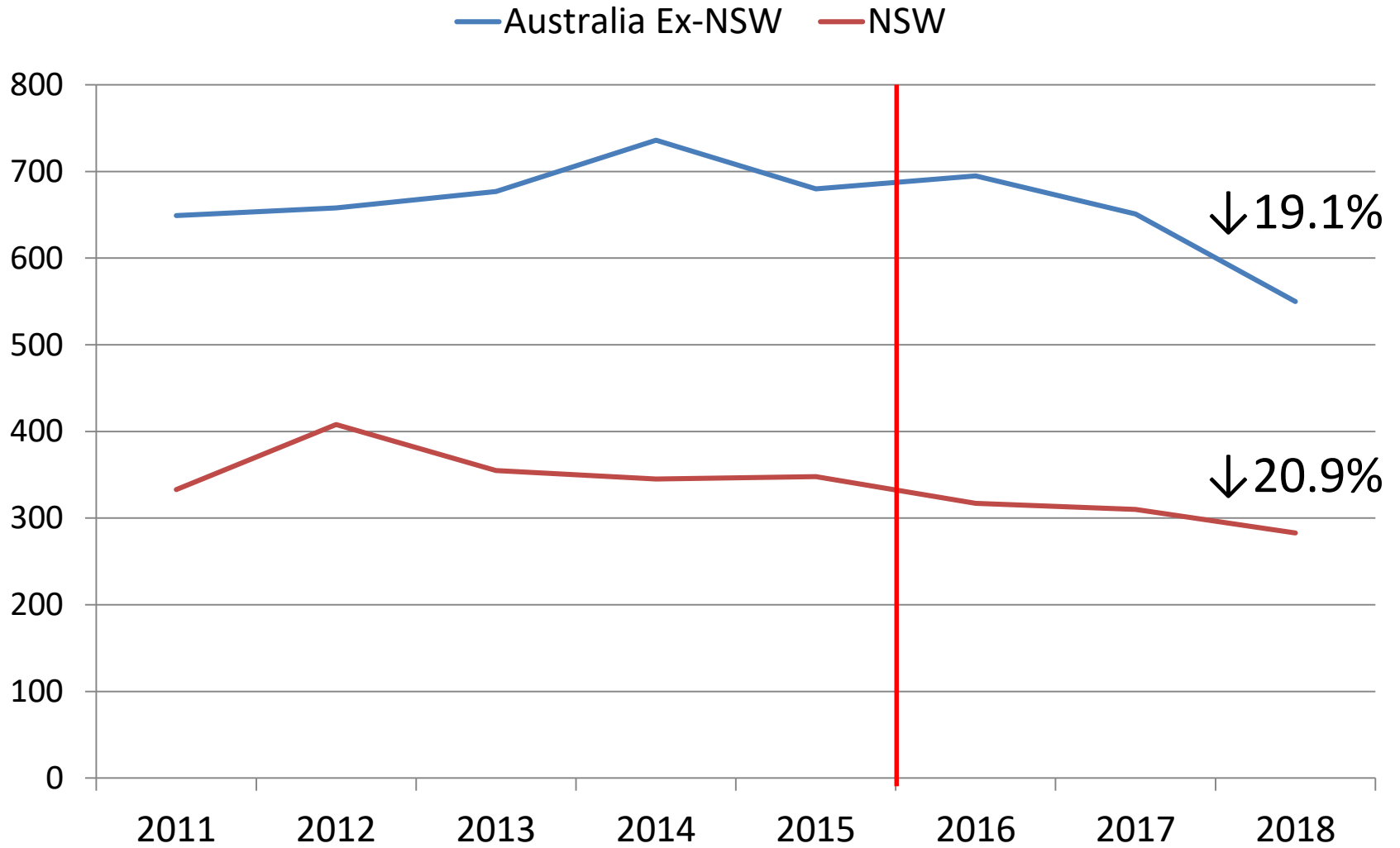
Methods

- HIV notifications data, 2011-2018
 - NSW, and
 - Rest of Australia
 - Comparison of the average annual number of HIV notifications in 2011-2015 (pre-PrEP) with the number of notifications in 2018
-

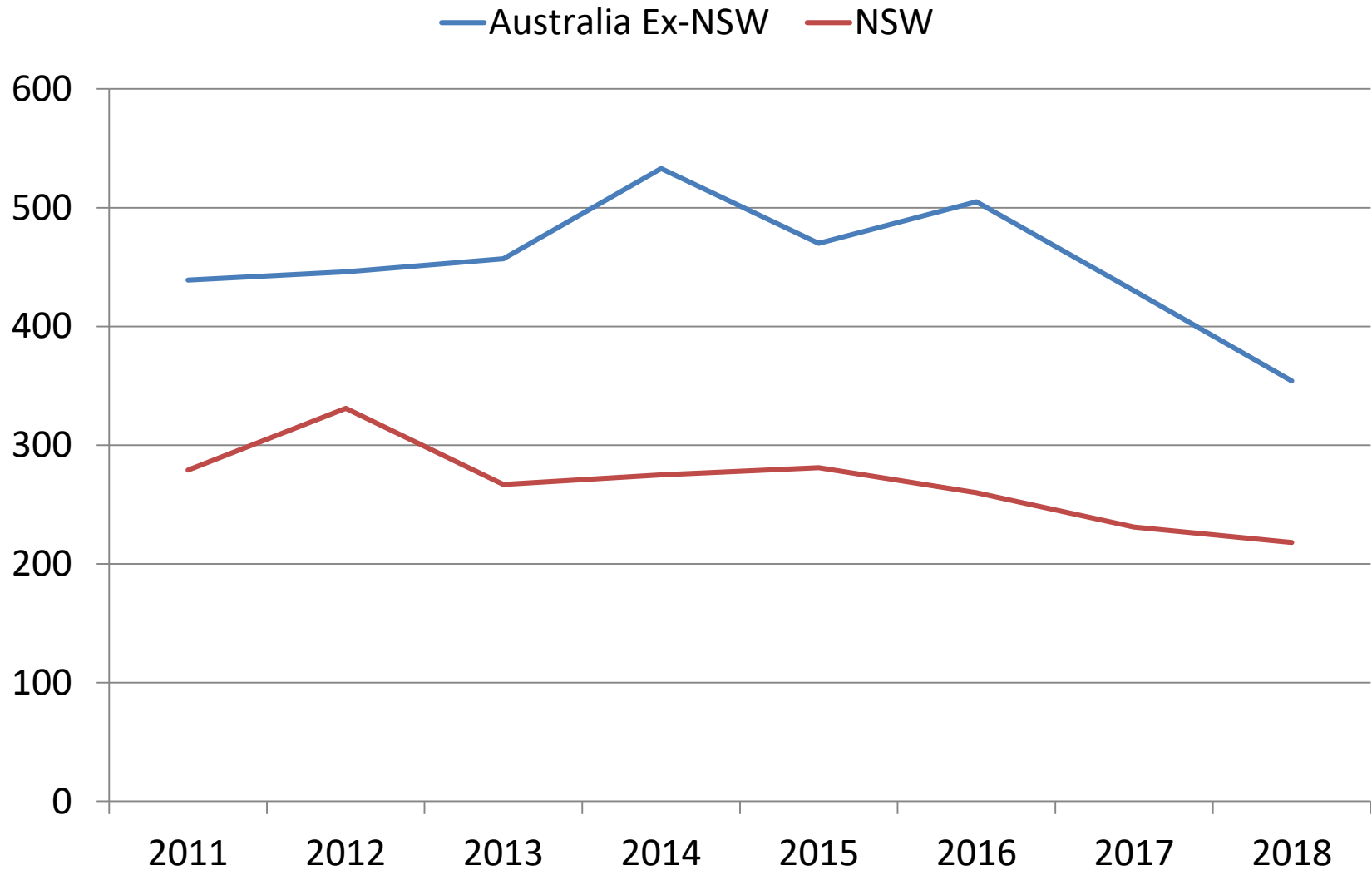
All HIV diagnoses



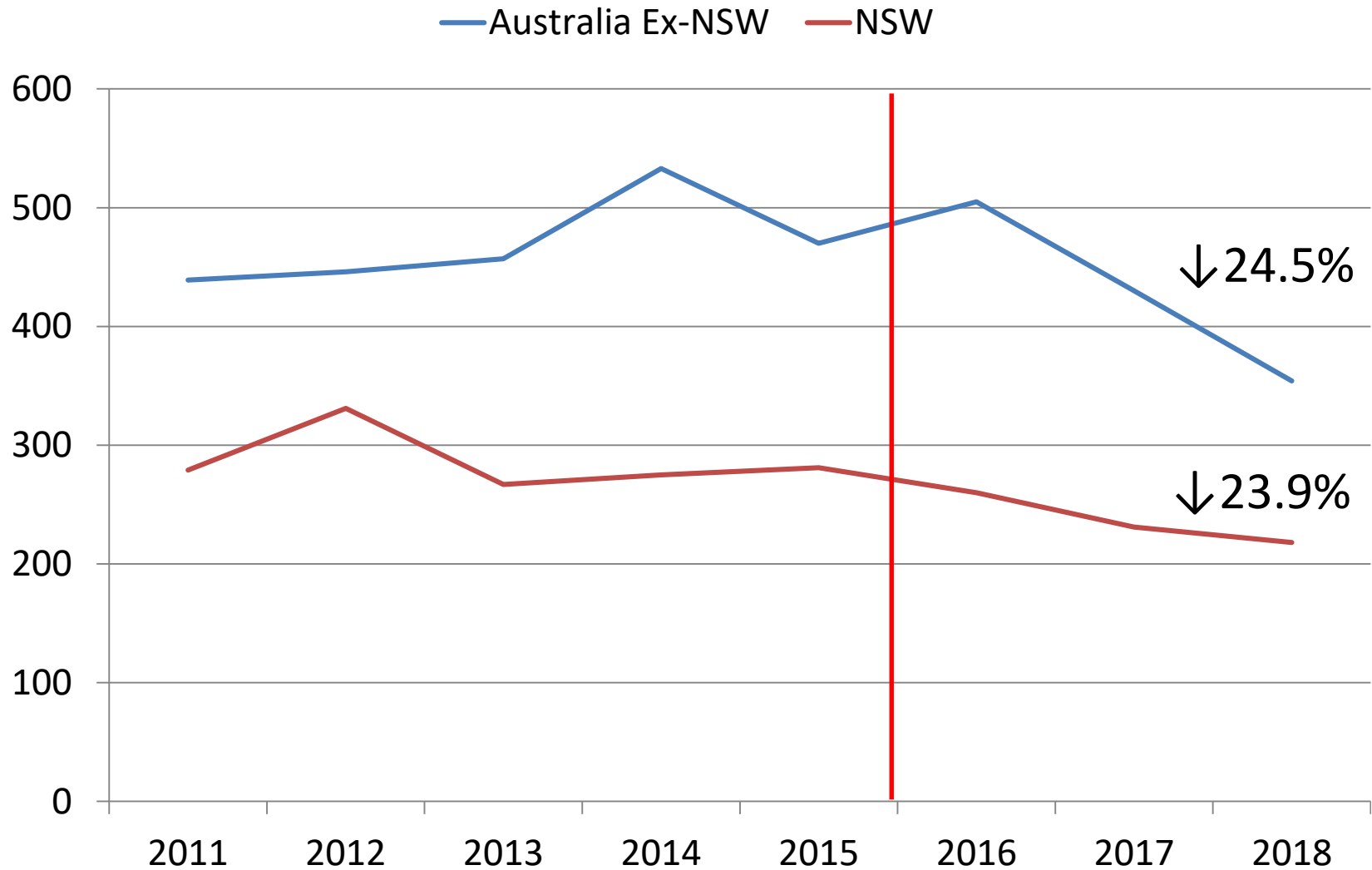
All HIV diagnoses



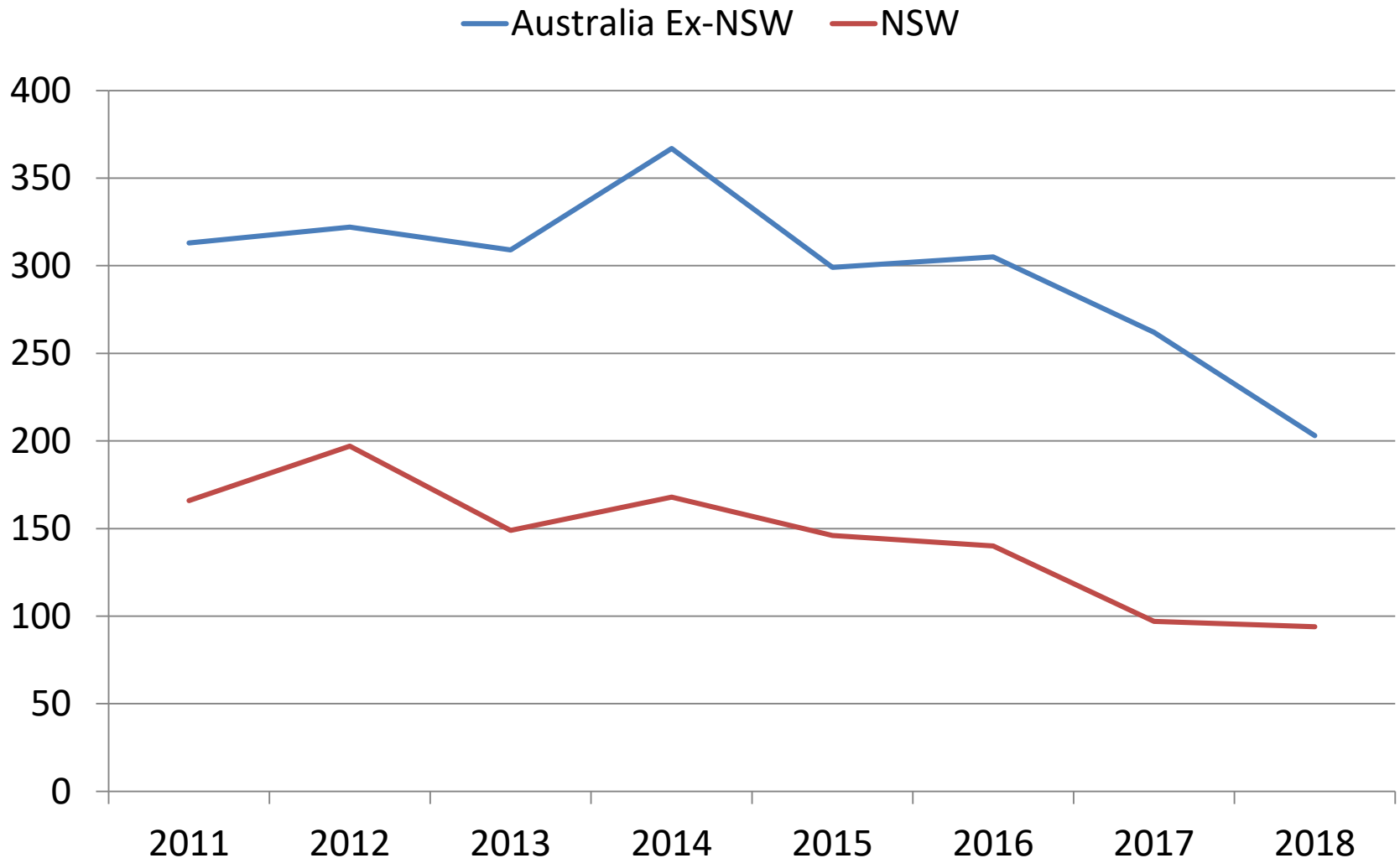
HIV diagnoses among MSM



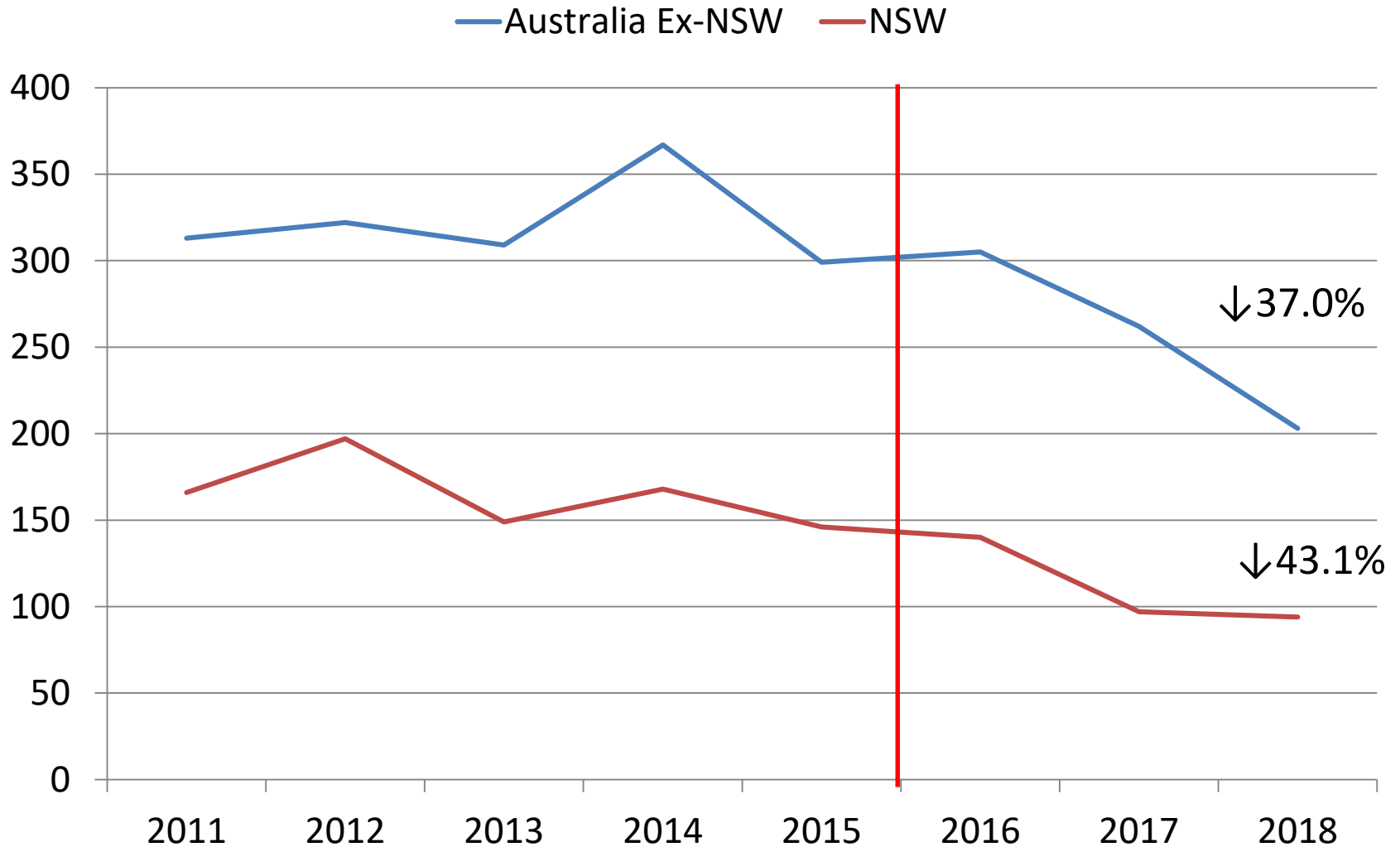
HIV diagnoses among MSM



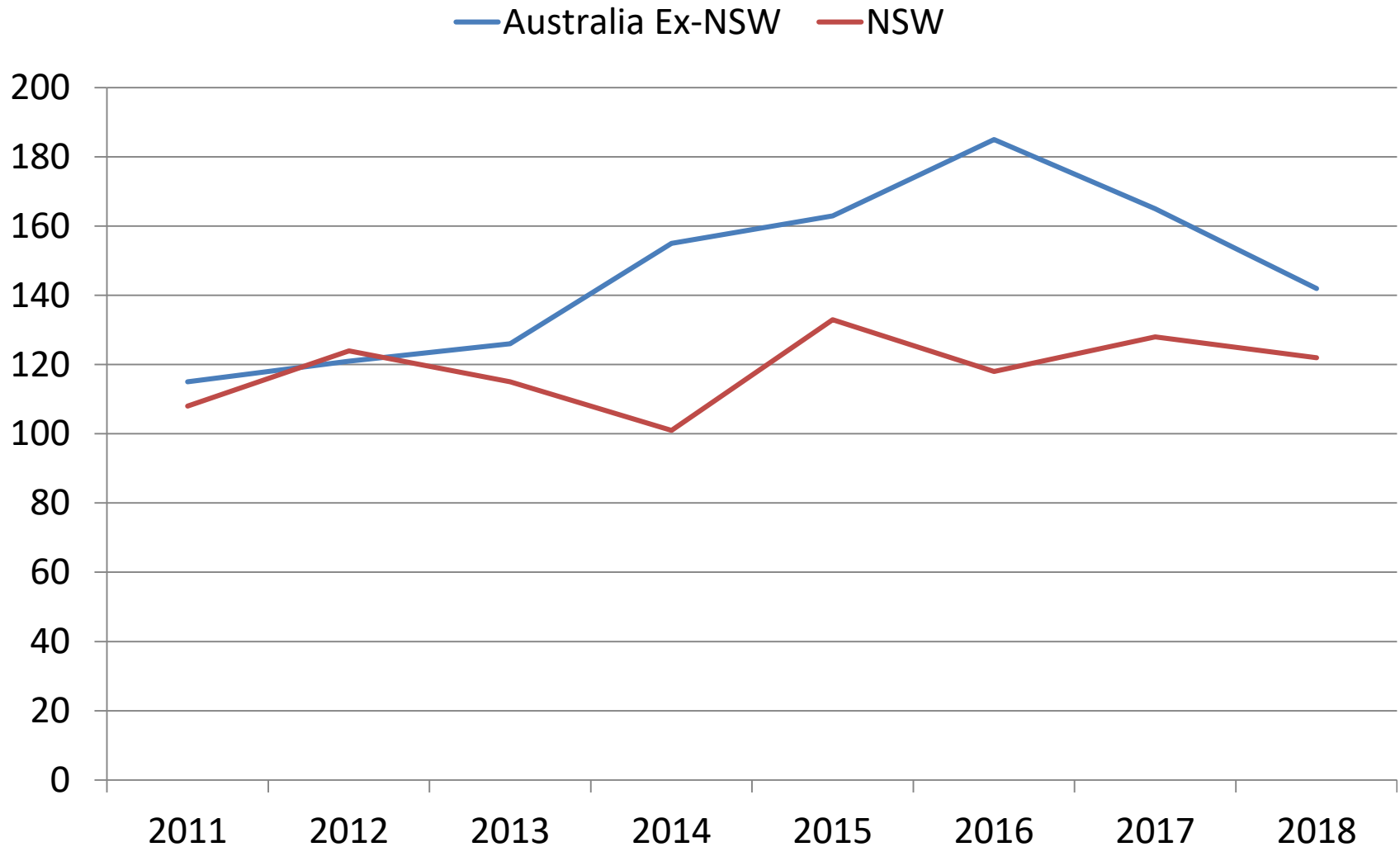
HIV diagnoses among MSM: Australian born



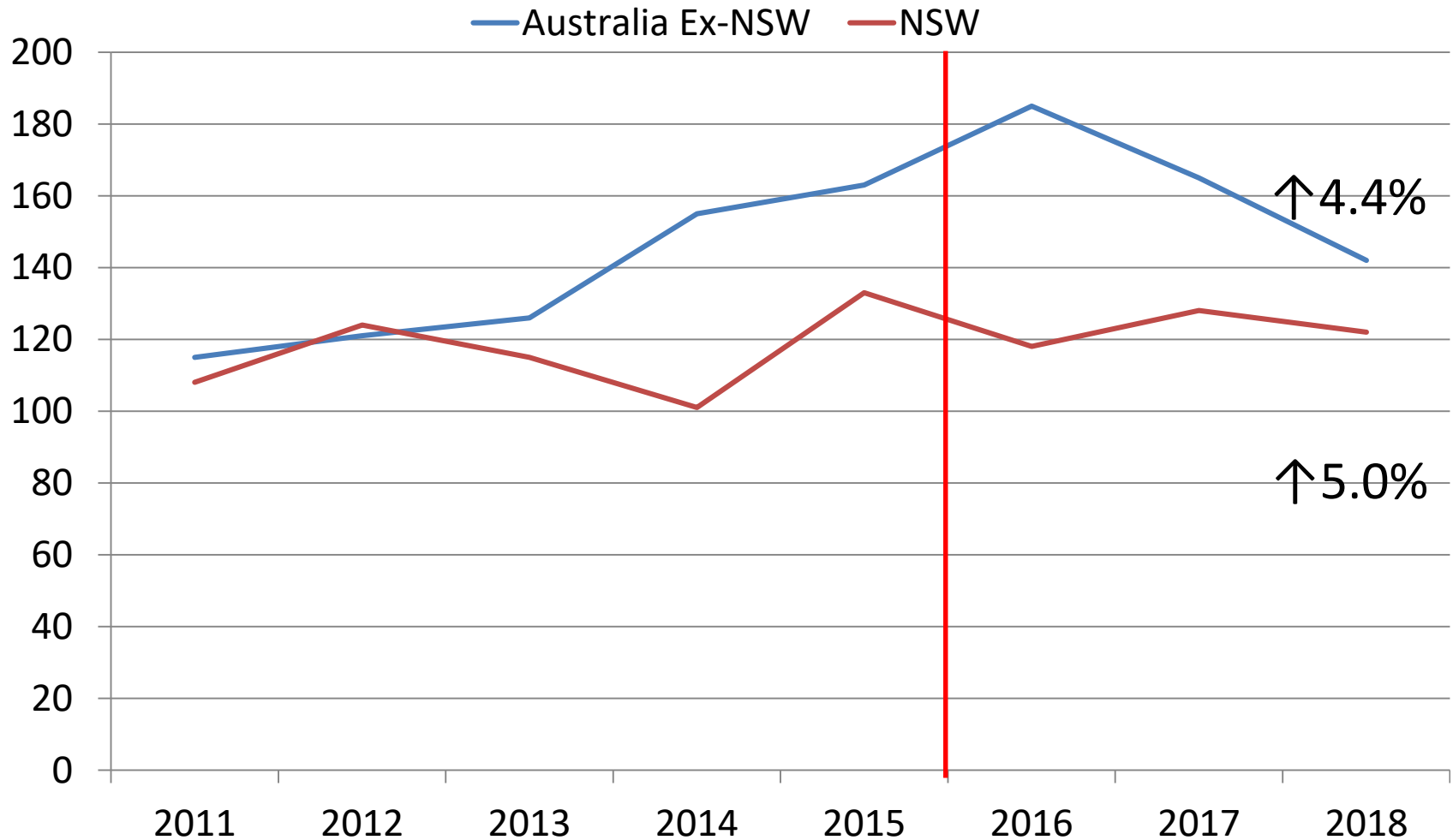
HIV diagnoses among MSM: Australian born



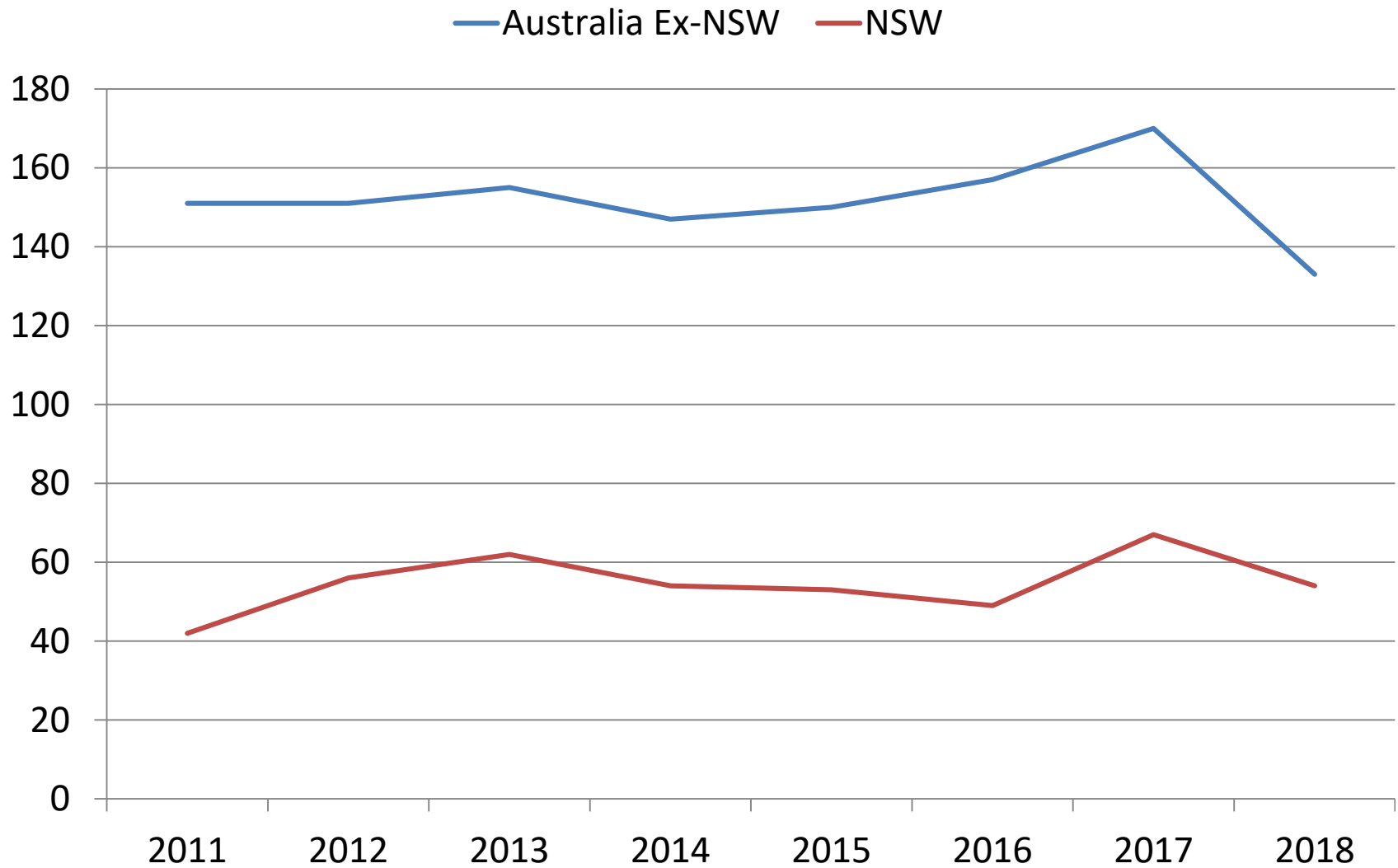
HIV diagnoses among MSM: Overseas born



HIV diagnoses among MSM: Overseas born

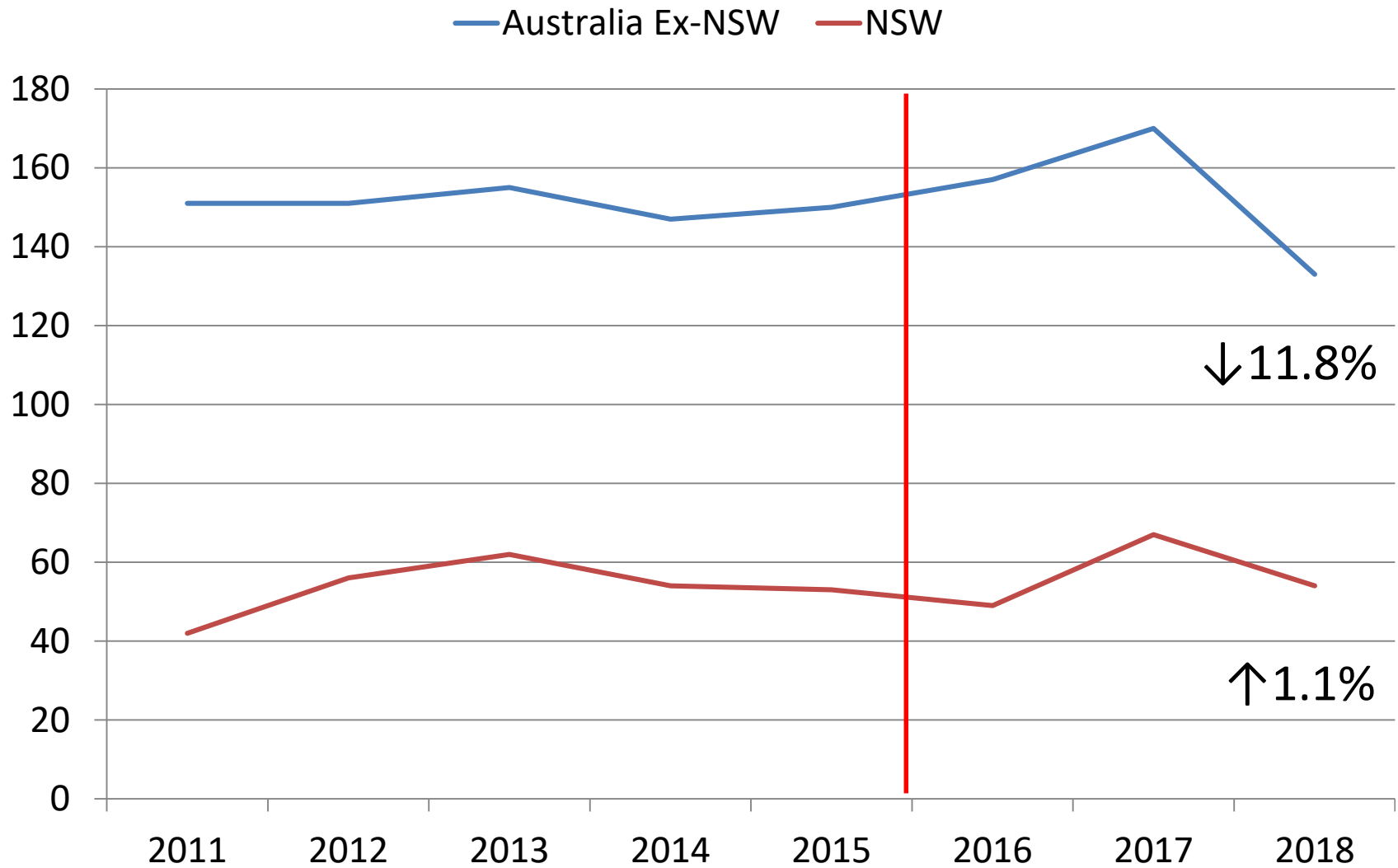


HIV diagnoses among heterosexuals

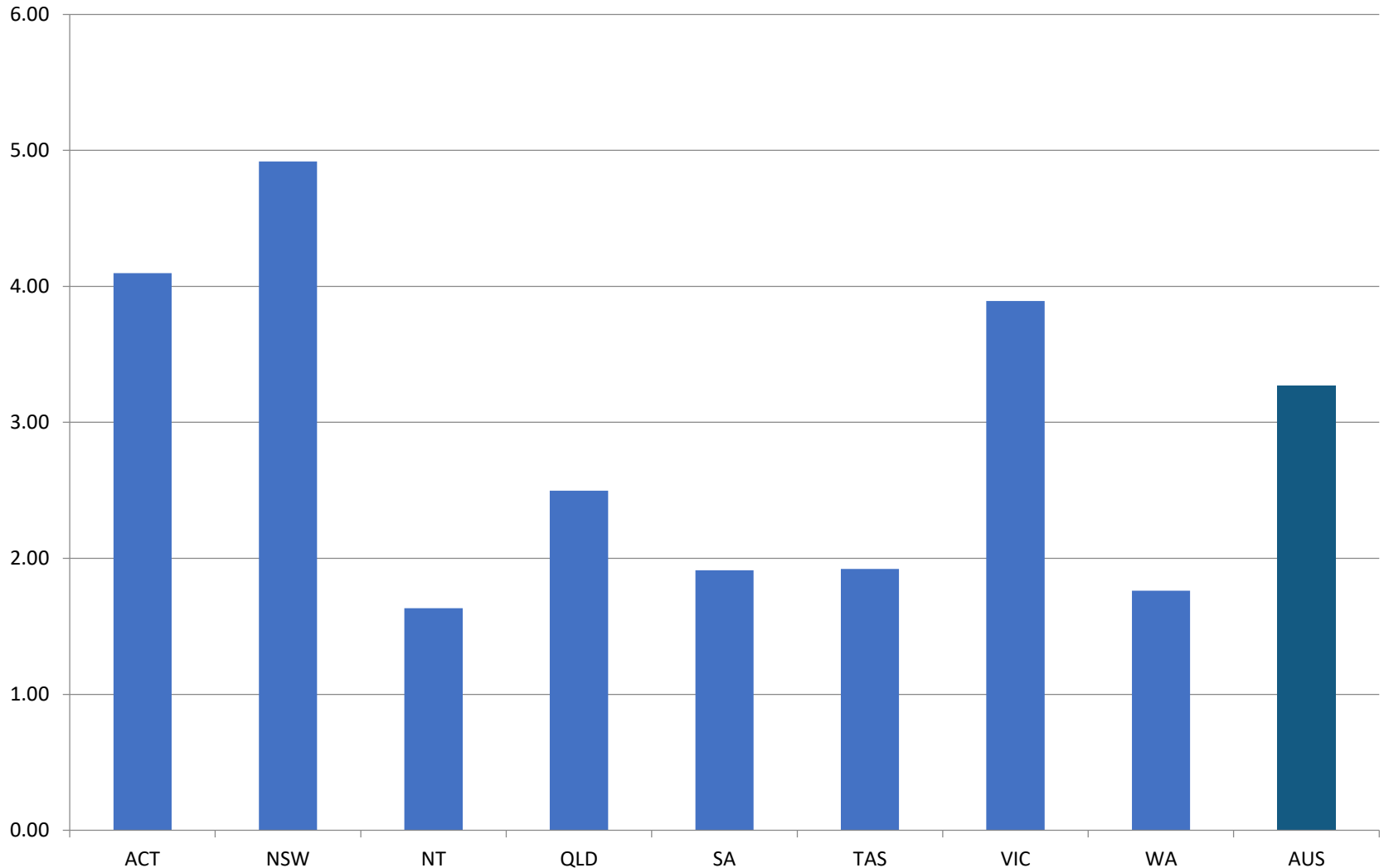


Source: Australian National HIV Registry

HIV diagnoses among heterosexuals



PrEP use per 1,000 males (18-65 years)



Conclusions

- HIV diagnoses are falling in MSM in NSW and the rest of Australia
 - Similar trends in NSW/rest of Australia, but
 - NSW: steady declines since 2012
 - Rest of Australia: more recent and sharper declines
 - Divergent trends by country of birth
 - Australian-born MSM: dramatic falls (40%) in HIV diagnoses
 - Overseas-born MSM: HIV diagnoses not declining
 - In NSW HIV diagnoses among overseas-born MSM now outnumber those among Australian-born
-

NSW HIV Prevention Partnership Project

Investigators and Steering C'ttee

Professor Andrew Grulich
 Dr Christine Selvey
 Professor Rebecca Guy
 A/Professor Garrett Prestage
 Professor Martin Holt
 Ms Jo Holden
 Professor Anthony Kelleher
 Mr Tim Duck
 Mr Craig Cooper
 Ms Karen Price
 Dr Prital Patel
 Dr Ben Bavinton
 Dr Steven Nigro
 Ms ToveLysa Fitzgerald
 Mr Phillip Keen
 Professor John de Wit
 Professor John Kaldor
 Mr Bill Whittaker
 A/Professor Iryna Zablotska
 Professor David Wilson

PrEP Working Group

Dr Ben Bavinton
 Ms Jo Holden
 Professor Martin Holt
 Professor Andrew Grulich
 Mr Scott McGill
 Ms Karen Price
 Mr Brent Mackie
 Ms ToveLysa Fitzgerald
 Mr Dale Halliday
 Mr David Crawford
 Mr Phillip Keen

HIV Treatment Working Group

Dr Angie Pinto
 Ms Jo Holden
 Professor Tony Kelleher
 Dr Prital Patel
 Dr Limin Mao
 Professor Andrew Grulich
 Mr Craig Cooper
 Professor Rebecca Guy
 Mr Neil McKellar-Stewart
 Ms Jessica Michaels
 Ms Barbara Telfer
 Mr Phillip Keen
 Mr Neil Fraser

HIV Testing Working Group

Professor Rebecca Guy
 Ms Cherie Power
 Dr Prital Patel
 Professor Andrew Grulich
 Mr James Gray
 Ms Vickie Knight
 Mr Philip Cunningham
 Mr Stephen Watkins
 MS Vickie Bowden
 Professor John de Wit
 Mr Phillip Keen

Molecular Epidemiology Working Group

Professor Tony Kelleher
 Ms Jo Holden
 Dr Angie Pinto
 Professor Andrew Grulich
 Dr Christine Selvey
 Mr Craig Cooper
 Mr Tim Duck
 Ms Karen Price
 Dr Heather-Marie Schmidt
 Dr Francesca Di Giallonardo
 Mr Neil Fraser
 Mr Phillip Keen

Behaviour Working Group

A/Professor Garrett Prestage
 Mr Tim Duck
 Professor Martin Holt
 Professor Andrew Grulich
 Dr Ben Bavinton
 Ms Karen Price
 Mr George Andrews
 Mr Mohamed Hammoud
 Mr Phillip Keen
 Professor John de Wit

Acknowledgements

Thanks to:

Jonathan King, Nick Medland, Hamish McManus,
Andrew Grulich, Rebecca Guy, Prital Patel, Richard Gray,
Shawn Clackett (Kirby Institute)

Curtis Chan, Martin Holt, Tim Broady (Centre for Social
Research in Health)

Kwendy Cavanagh, Steven Nigro, Christine Selvey
(Health Protection, NSW Health Health)

State and Territory Health Officers
