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Suggested Reference

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HIV epidemiology and behavioural outcomes – towards control?

Satellite session: Primary prevention of HIV among gay men: why do we need it?

Dr Peter Saxton Director, Gay Men's Sexual Health research group

AIDS 2014 Melbourne 20-25 July



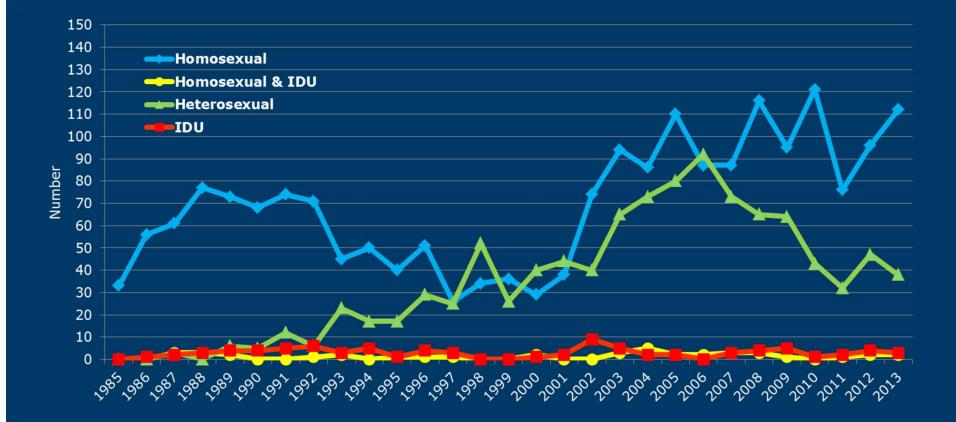


Main messages

- Low HIV prevalence and steady HIV diagnoses
- Sexual partner patterns for MSM are complex
- Condom use high
- Attitudes about condoms affirmative



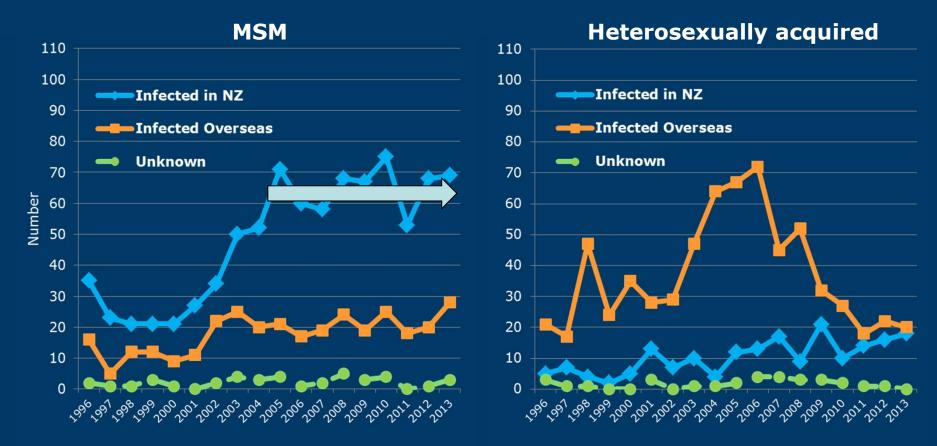
Annual numbers newly reported with HIV in New Zealand, 1985-2013 by mode of transmission



Source: AIDS Epidemiology Group, Department of Preventive and Social Medicine, University of Otago. Note: Includes HIV cases newly <u>reported</u> by Western Blot antibody testing and viral load testing.



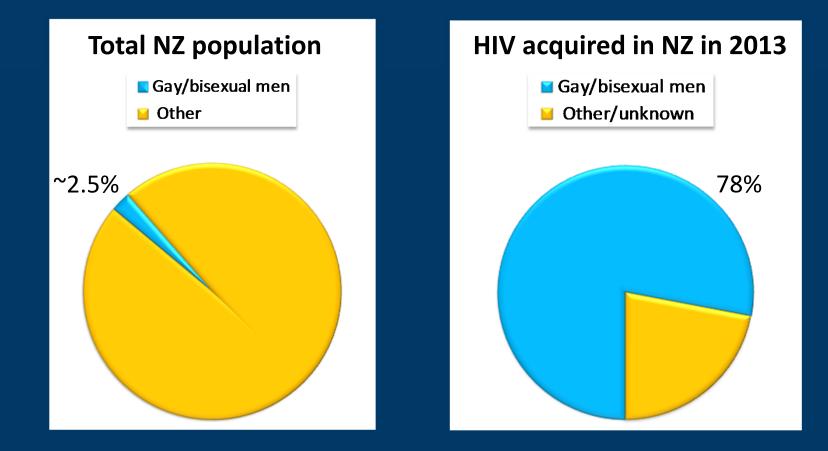
Annual numbers <u>newly diagnosed</u> with HIV in New Zealand, 1996-2013 by <u>place of infection</u>



Source: AIDS Epidemiology Group, Department of Preventive and Social Medicine, University of Otago. Note: Includes HIV cases <u>newly diagnosed</u> by Western Blot antibody testing and viral load testing.



HIV transmission in NZ concentrated among MSM



Note: (1) Includes both homosexual/bisexual and homosexual/bisexual/IDU

(2) In 2013, **90** people diagnosed with HIV were thought to have been infected in New Zealand of whom **70** (77.7%) were MSM. Source: AIDS Epidemiology Group, Department of Preventive and Social Medicine, University of Otago on 12 June 2014.



HIV prevalence in MSM ~ 5%

Sentinel sexual health clinics 2005/6

Gay community venues 2011 (Auckland)*

Group	% HIV +
MSM	4.41
People who inject drugs (non-MSM)	0.32
Heterosexual men	0.12
Heterosexual women	0.14
Current sex worker	0.00

Source: McAllister et al. Int J STD AIDS 2008; 19:752-757.

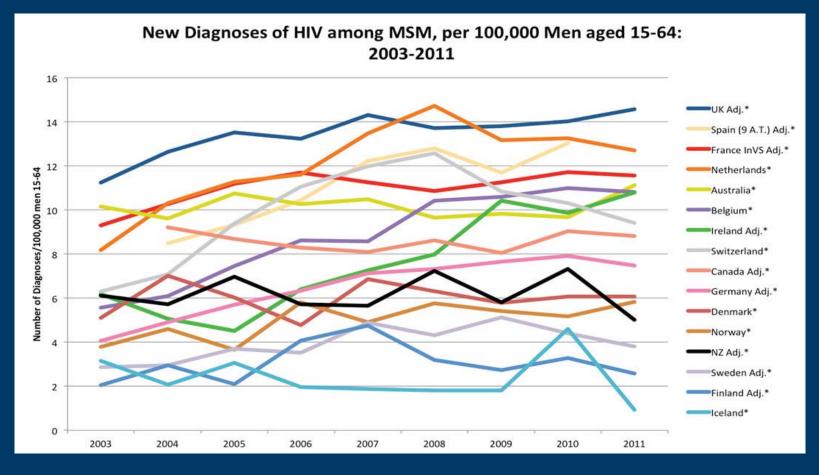
Group	% HIV +
MSM (AKL)	6.0
MSM (NZ, Not AKL)	4.8
MSM (Not NZ)	13.7

*overall 1.3% undiagnosed

Source: Saxton et al. *BMC Public Health* 2012. 12:92.



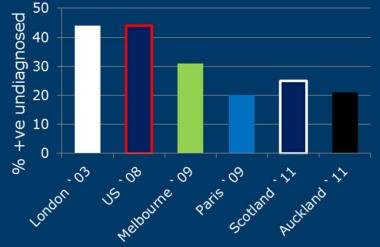
In lowest third of countries, per capita HIV diagnoses among MSM



Source: Foster et al .Sex Transm Infect 2013;89:Suppl 1 A216 doi:10.1136/sextrans-2013-051184.0674

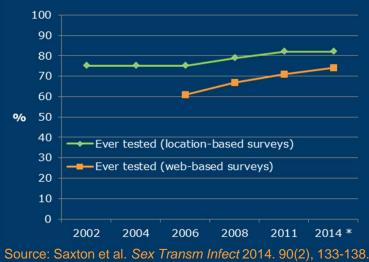


Undiagnosed HIV infection among MSM

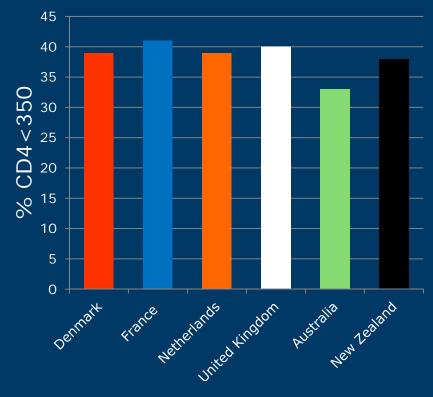


Source: Saxton et al. *BMC Public Health* 2012. 12:92.

Increase in HIV testing among MSM



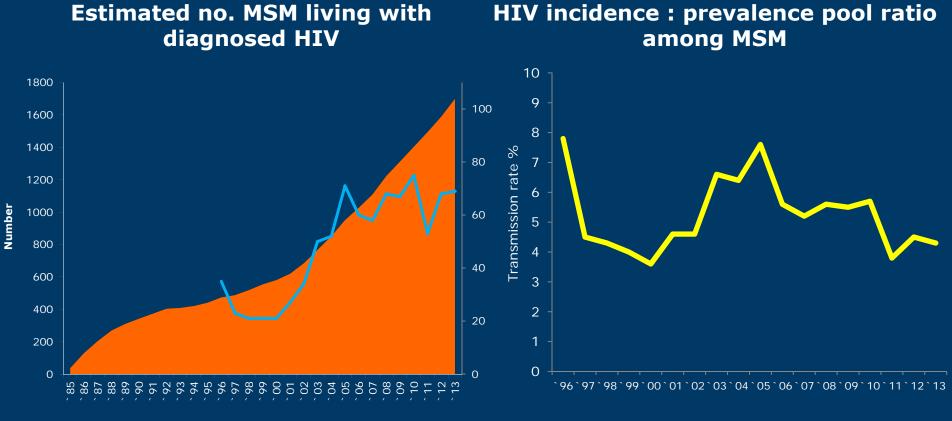
"Late" HIV diagnoses among MSM with CD4 <350 in northern European countries*, Australia and NZ (2005-10)



* For which CD4 information available for >50% new diagnoses Source: Dickson et al. *HIV Medicine* 2012, 13:182-19.



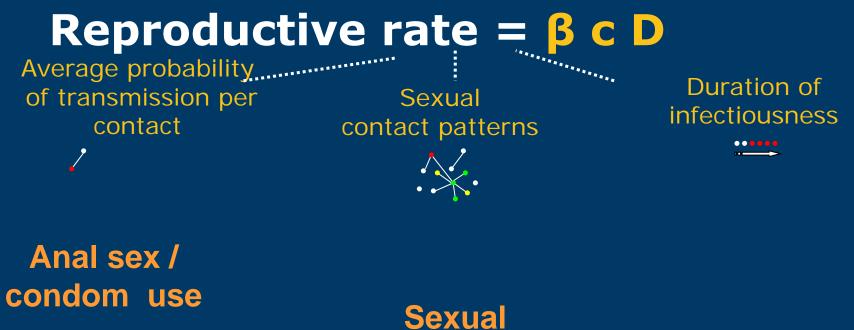
Transmission rate declining



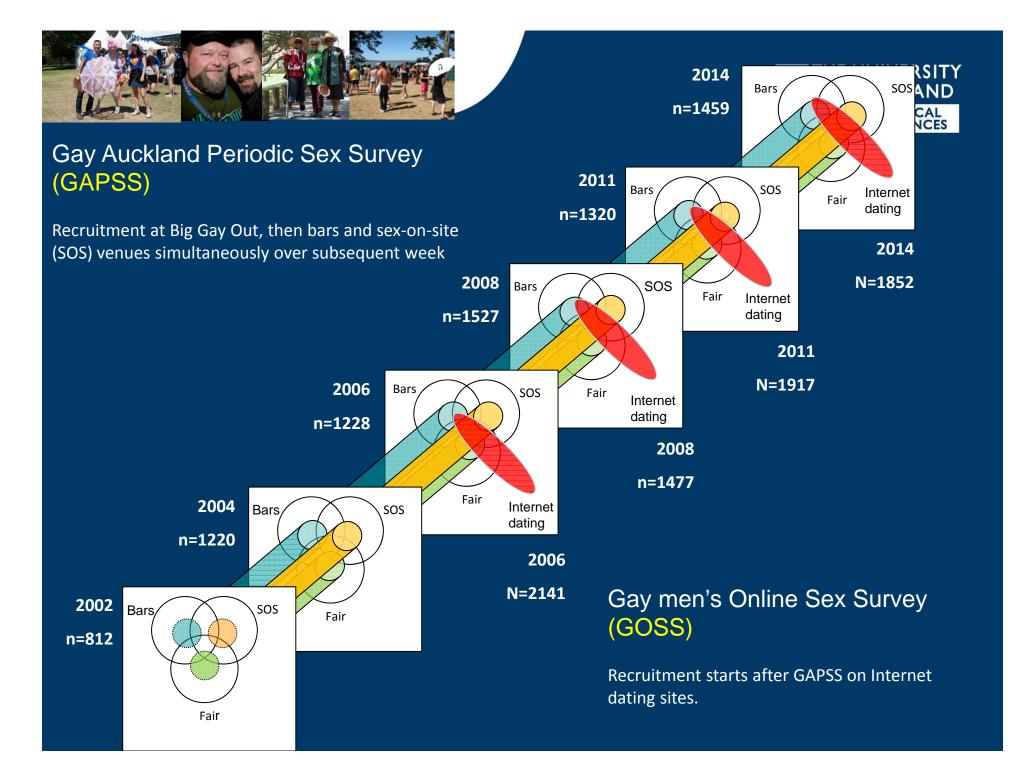
Source: Saxton et al. *Int J STD AIDS* 2012; 23:274-279. (updated estimates)

Source: Saxton et al. ISSTDR, 2009 Jun 28–Jul 1, London. (updated estimates)





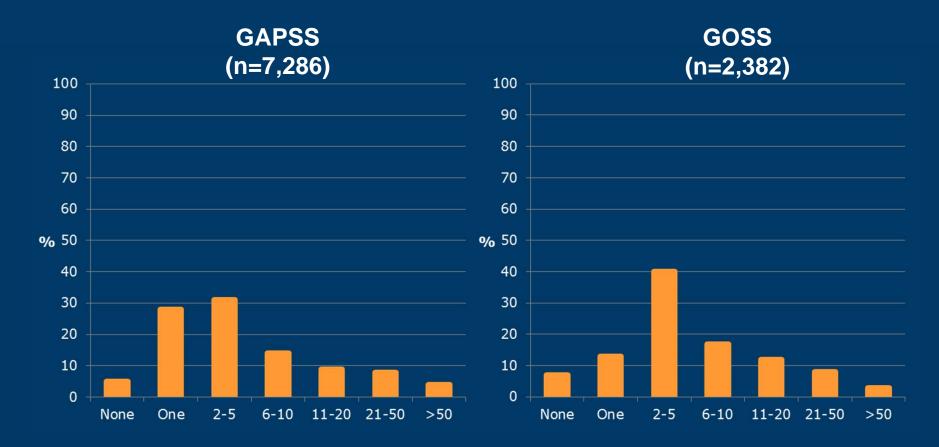
connectivity





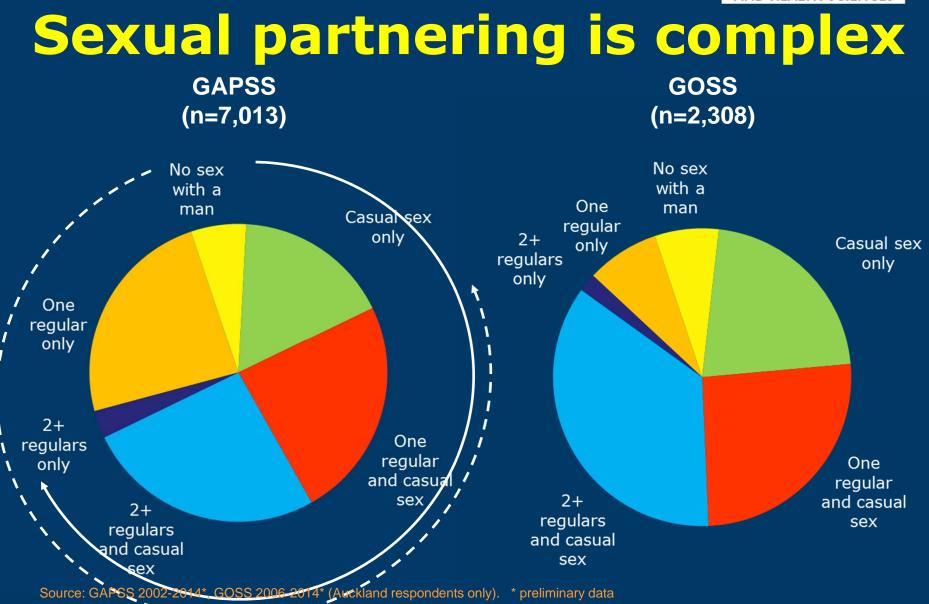
Short gap length

No. of male sexual partners <6 months









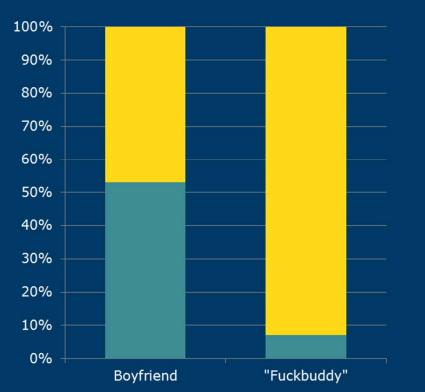




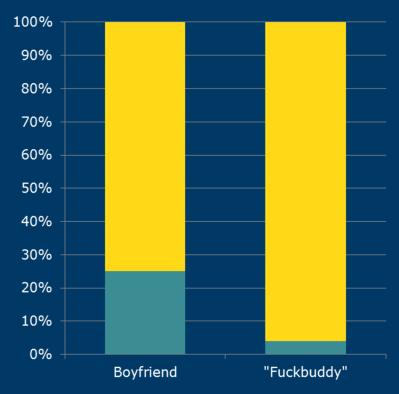
Concurrency is common

GAPSSSexual exclusivity among MSM who have a
current regular partner (BF or FB)

GOSS (n=714)



Exclusive <6 mths Non-exclusive</p>



Source: GAPSS 2002-2014*, GOSS 2006-2014* (Auckland respondents only). * preliminary data . Denominator is respondents with a current regular sex partner of at least 6 months duration.

Exclusive <6 mths Non-exclusive</p>



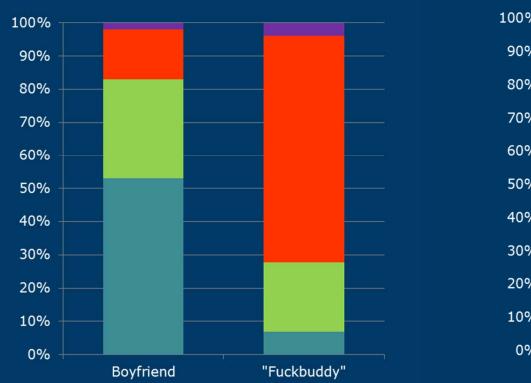


Concurrency is common

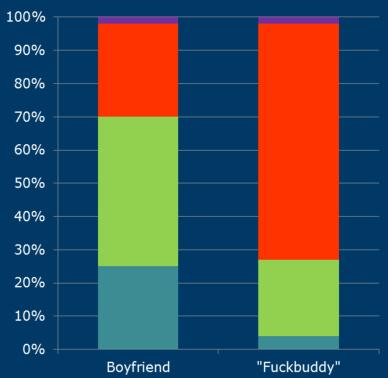
GAPSSSexual exclusivity among MSM who have aG(n=2940)current regular partner (BF or FB)(n=

Casual and regular

GOSS (n=714)



Casual only



Regular only

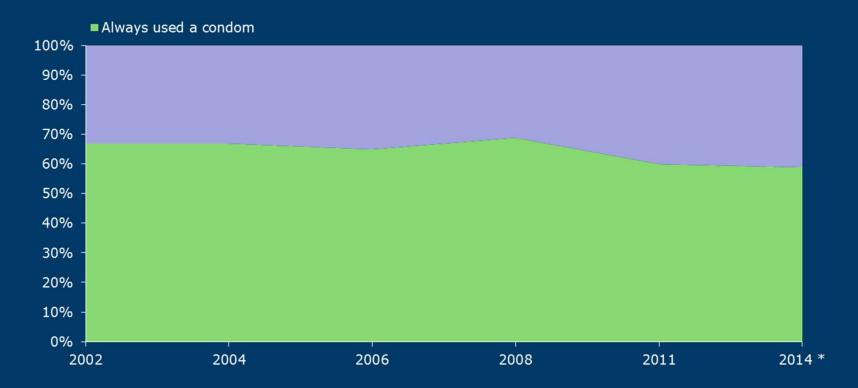
Source: GAPSS 2002-2014*, GOSS 2006-2014* (Auckland respondents only). * preliminary data Denominator is respondents with a current regular sex partner of at least 6 months duration.



Condom use

During anal intercourse with casual partner/s <6 months

■ Any UAI (unprotected anal intercourse)



Response options: "always", "almost always", "about half the time", "very rarely", "never". Separately for insertive and receptive anal intercourse. Source: GAPSS. * preliminary data

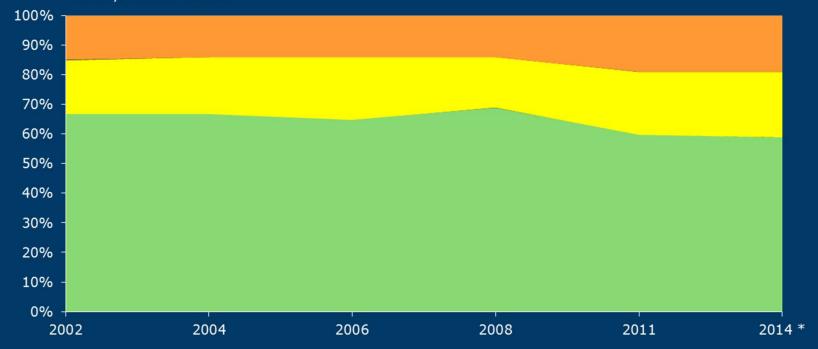


Condom use

During anal intercourse with casual partner/s <6 months



- Almost always
- Always used a condom

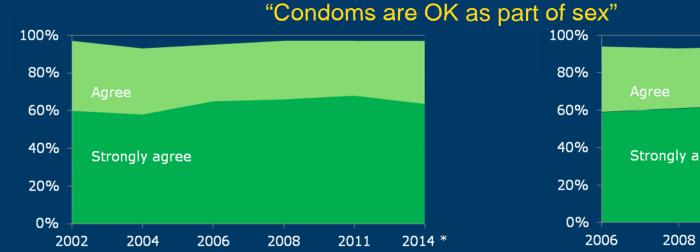


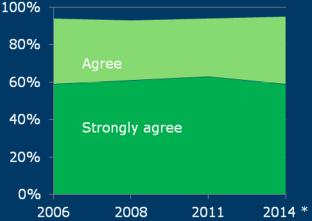
Response options: "always", "almost always", "about half the time", "very rarely", "never". Separately for insertive and receptive anal intercourse. Source: GAPSS. * preliminary data



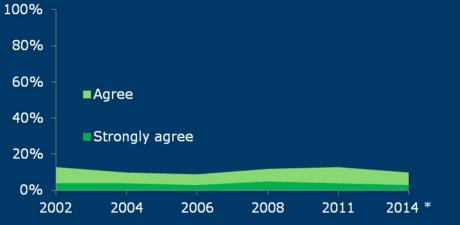
Attitudes

GOSS

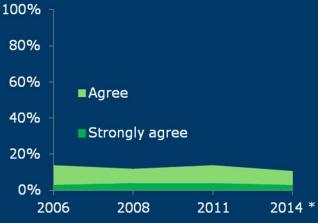




"I would sometimes rather risk HIV than use a condom for anal sex"



GAPSS



Response options: "strongly agree", "agree", "disagree", "strongly disagree". Source: GAPSS 2002-2014*, GOSS 2006-2014* (Auckland respondents only). * preliminary data

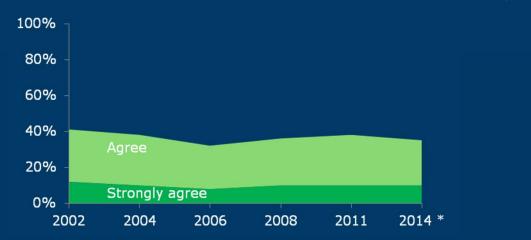


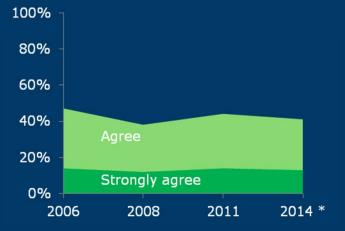
Attitudes

GAPSS

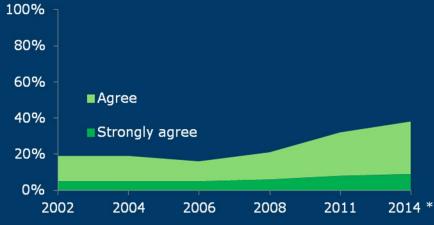
GOSS

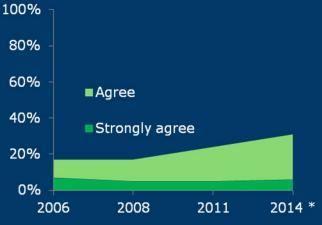
"I don't like condoms because they reduce sensitivity"





"HIV/AIDS is a less serious threat than it used to be because of new treatments"





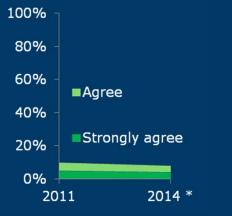
Response options: "strongly agree", "agree", "disagree", "strongly disagree". Source: GAPSS 2002-2014*, GOSS 2006-2014* (Auckland respondents only). * preliminary data



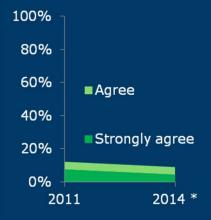


"I would never be willing to use condoms for anal sex"

GAPSS





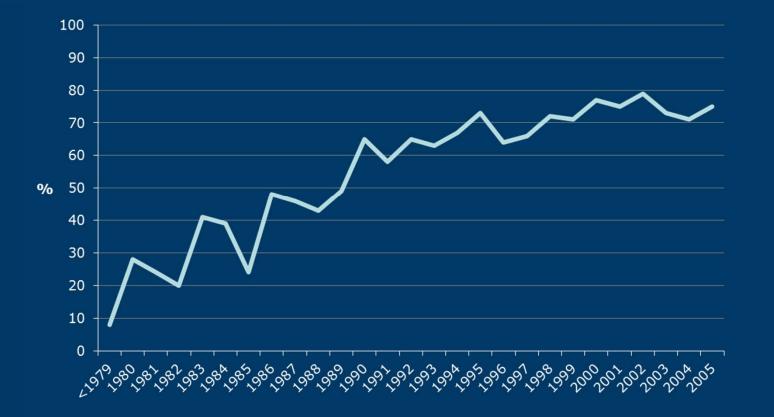






Condom use at first sex

By year of first anal intercourse



Thanks

A/Prof Nigel Dickson; Director, AIDS Epidemiology Group, University of Otago

Tony Hughes; Scientific Director, NZAF



Acknowledgements

AIDS Epidemiology Group data

A/Prof Nigel Dickson (Director), Bible Lee

GAPSS / GOSS behavioural surveillance study

A/Prof Nigel Dickson (AEG), Tony Hughes (NZAF) 14,841 responses from participants 2002-2014

Funding

NZAF Fellowship Ministry of Health University of Auckland School of Population Health PBRF travel award Health Research Council of NZ University of Otago Division of Health Sciences Postdoctoral award

POSTERS

TUPDC0104 Ethnicity classification approaches and implications for surveillance
WEPE133"Long tailed MSM": MSM with frequent partner change in location-based surveillance
WEPE134 "Long tailed MSM": MSM with frequent partner change in web-based surveillance
THPE154 Disparities in sexual health and behaviours among MSM by ethnicity
THPE155 "The testing gap" MSM who have not tested since their last episode of unprotected casual anal sex

Permission for these preliminary GAPSS GOSS 2014 data to be presented at the AIDS 2014 Conference has been granted by the New Zealand Ministry of Health who funded these surveys. The Ministry will be receiving a series of scheduled reports on GAPSS GOSS 2014 findings for review commencing in September 2014.

Photographs courtesy of NZAF, Charlie Hautono.

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