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Changes in condom use with casual partners 2002-2014 in community-based surveys of NZ gay and bisexual men

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• Understand responses of GBM to interventions

Incidence affected by

- risk reduction •
- ٠ mixing





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Background

- Rise in diagnoses of HIV, syphilis, rectal gonorrhea in NZ
- Behaviours by age class, sexual activity class influence spread
- Social marketing segmentation
- Understand responses of GBM to interventions



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Aims

Stage 1:

- Describe GBM taking part in community surveys in Auckland NZ according to age and sexual activity class
- Examine trends 2002-2014

Stage 2:

• Analyse mixing patterns



Measures (all <6 months)

- Casual sex (c), Anal intercourse (AI), Condomless anal intercourse (CAI)
- Age classes (<30 years; 30+)
- Sexual activity classes (up to 20; >20)
- Restricted sample to GBM last tested negative or untested

Sample characteristics

- n=6,372
- 85% gay identified, 11% bisexual
- 73% European, 9% Maori, 4% Pacific, 9% Asian
- 1.3% undiagnosed HIV in 2011 (Saxton et al. BMC Public Health 2012)

Age and activity class

Sample matrix by

Trends over time

Trends in casual sex

declining trend overall

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Casual sex <6 months

Base = total sample

6

Trends in casual sex

Casual sex <6 months

- declining trend overall
- more likely in high vs low activity segments
- no change for any segment

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Trends in anal intercourse

Base = casual partners

• ↑ trend overall

Trends in anal intercourse

Base = casual partners

Trends in condomless anal sex

↑ trend overall

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Condomless sex with casual partner <6

Trends in condomless anal sex

Base = AI with casual

Condomless sex with casual partner <6

Trends in condomless anal sex

• ↑ trend overall

↑ trend overall

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Base = total sample

Condomless sex with casual partner <6

Trends in condomless anal sex

- ↑ trend overall
- More likely in high vs low activity segments
- ↑ trend in all but older, high segment

Base = total sample

Trends in condomless anal sex

- ↑ trend overall
- More likely in high vs low activity segments
- ↑ trend in all but older, high segment
- AOR significant for younger segment only

Strengths and limitations

Strengths

- Large and diverse community sample of NZ GBM
- Consistent measures
- Monitor changes over time

Limitations

- Not generaliseable to all GBM
- Repeat analysis for other risk reduction approaches
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Conclusions

- Highest activity segments most likely to report CAIc
- Younger GBM report greater overall increase in CAIc, regardless of sexual activity class
- Greatest among young, high activity segment
- Changes in CAIc in small but strategically important groups may have large effects on transmission
- Social research needed to understand cultural milieu
- Measure mixing behaviours to better understand HIV and STI dispersion and concentration

Contact tracing diagram of syphilis cases in Christchurch Sexual Health Clinic 2012

Coughlan et al. Sexual Health 2015