

Gay Community Periodic Survey: Sydney February 2012

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Gay Community Periodic Survey Sydney, February 2012

Never Stand Still

Faculty of Arts and Social Sciences

National Centre in HIV Social Research

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Gay Community Periodic Survey

SYDNEY, February 2012

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ART antiretroviral treatment

HIV human immunodeficiency virus

HIV-seroconcordant relationship a relationship in which both partners are of the same HIV status, either HIV-positive or HIV-negative

HIV-serodiscordant relationship a relationship in which both partners are known (as a result of testing) to be of different HIV status, e.g. HIV-positive and HIV-negative

HIV-serononcordant relationship a relationship in which the HIV status of at least one partner in the relationship is not known, e.g. HIV-positive and untested, HIV-negative and untested, or both untested

HIV status a person's antibody status established by HIV testing, e.g. HIV-negative, HIV-positive, or unknown (untested)

PEP post-exposure prophylaxis

PrEP pre-exposure prophylaxis

STI sexually transmissible infection

UAIC unprotected anal intercourse with casual partners

UAIR unprotected anal intercourse with regular partners

Executive summary

The Sydney Gay Community Periodic Survey is a cross-sectional survey of gay and homosexually active men recruited at a range of gay community sites in Sydney. Since 1996 the project has been funded by the NSW Ministry of Health and supported by ACON and Positive Life NSW. The major aim of the survey is to provide data on sexual, drug use and testing practices related to the transmission of HIV and other sexually transmissible infections (STIs) among gay men in Sydney. The data presented in this report are from the period 2008 to 2012.

In February 2012, 2843 men were recruited at 20 data collection sites which included gay social venues (bars and gyms), sex-on-premises venues, sexual health clinics and Fair Day (part of the Sydney Gay and Lesbian Mardi Gras). The response rate was 66.1%. In the February 2012 round there was a significant increase in the proportions of men recruited from social venues and sexual health clinics, and a corresponding decrease in men recruited from Fair Day. These changes should be borne in mind when interpreting the results.

Key points

- The proportion of men reporting that they have ever been tested for HIV has fallen over time (to 88% in 2012). The proportion of non-HIV-positive men reporting a recent HIV test (in 12 months prior to survey) fell between 2011 and 2012 to 69%.
- The proportion of HIV-positive men on antiretroviral treatment continues to increase (to 87% in 2012). Nearly all of the men on treatment reported having an undetectable viral load in 2012.
- There is a continued switch from the use of physical venues and locations to meet male sex partners to online and mobile platforms. In 2012, the most commonly used ways to meet male partners were the internet, mobile applications and gay saunas.
- The proportion of men reporting any unprotected anal intercourse with their regular partners (UAIR) has declined slightly over time. Over time, UAIR has become more likely to be reported with seroconcordant partners.
- The proportion of men reporting any unprotected anal intercourse with casual partners (UAIC) is stable (at 34%). Over time, HIV-positive men have become much more likely to report UAIC.
- In general, drug use appears to be declining in the sample over time. However, between 2011 and 2012 there was a small but significant increase in the use of crystal methamphetamine by HIV-negative men. HIV-positive men remain disproportionately likely to report injecting drug use.

Demographic profile

As in previous surveys, the men in the sample were primarily of Anglo-Australian background, lived in the metropolitan Sydney area, were well educated and in full time employment. Since 2008, there have been slight though significant increases in the proportions of men aged 25–29 years and older than 50 and corresponding decreases in the proportions of men aged under 25 and in their thirties.

Almost two-thirds of the sample (61.6%) was born in Australia. Over time, there has been a steady increase in the ethnic diversity of the sample. Since 2008, the proportion of Anglo-Australian men has declined significantly.

HIV status and testing

The overwhelming majority of men in the sample reported having 'ever' been tested for HIV (88.0%). The proportion of men reporting being tested for HIV has been declining gradually over the past five years (from 93.4% in 2008). Over two-thirds of non-HIV-positive participants (69.1%) reported having an HIV test in the 12 months prior to the survey. This was a significant decrease since 2011, although the proportion of non-HIV-positive men reporting a recent HIV test has generally been stable during the last five years.

Of the participants that had been tested, most men reported that they were HIV-negative (85.1%) with smaller proportions reporting that they were HIV-positive (12.5%) or did not know their HIV status (2.4%). Between 2008 and 2012, there was a significant upward trend in the proportion of HIV-positive men who reported being on antiretroviral treatment. In 2012, 86.6% of HIV-positive men said they were receiving combination treatment for HIV. In 2012, nearly all the HIV-positive men on treatment (94.3%) reported an undetectable viral load, compared with 29.3% of HIV-positive men not on treatment.

Sexual relationships with men

In 2012, over a quarter of men reported being in a monogamous relationship with a regular male partner (28.4%). A similar proportion reported having both regular and casual partners (30.4%), and a quarter had casual partners only (24.9%). Sixteen percent of men surveyed reported no sexual relationships with men in the six months prior to the survey. These proportions have been relatively stable since 2008.

In 2012, just over a third of men (36.5%) said they had met male sex partners through the internet in the six months prior to survey. This remains the most common way that men meet male sex partners. Other commonly reported ways to meet male sex partners were gay saunas (30.7%), gay bars (27.3%) and travelling overseas (21.0%). In 2012, almost a third of men (31.5%) said they had used a mobile application like Grindr to meet sex partners, a significant increase from 2011. It is noticeable that between 2011 and 2012, as the use of mobile applications increased, the use of gay bars declined. It is also apparent that in general the use of physical venues and locations to meet partners has decreased since 2010; there appears to be an ongoing switch to mobile and online platforms to meet partners.

Regular male partners

Among men with regular partners in 2012, 61.1% reported they had an agreement with their regular partner about sex within the relationship and a smaller proportion (55.9%) reported having an agreement about sex outside the relationship. In 2012, the most commonly held agreements about sex within a relationship specified that anal intercourse could occur without a condom (32.2%) or that condoms must always be used for anal intercourse (24.7%). The most commonly held agreements about sex outside a relationship specified that no sex with casual partners was allowed (25.0%) or that condoms must always be used for anal intercourse with casual partners (25.5%). Over the reporting period the proportions of men who have relationship agreements about sex within or outside the relationship have increased.

In 2012, among HIV-positive men with regular partners, half (49.5%) reported that they were in a seroconcordant relationship, 40.1% said they were in a serodiscordant relationship, and 10.4% said they were in a serononconcordant relationship. Over the reporting period there was a significant increase in the proportion of HIV-positive

men in seroconcordant relationships and a corresponding decrease of those in serononconcordant relationships.

In 2012, over three-quarters of HIV-negative men with regular partners reported being in a seroconcordant relationship (76.3%), with considerably smaller proportions in serononconcordant (19.2%) and serodiscordant relationships (4.6%). Since 2008, the proportion of HIV-negative men in seroconcordant relationships has significantly increased, while the proportion of men in serononconcordant relationships has declined.

In terms of sex with regular partners, half the men with regular partners (51.3%) reported some unprotected anal intercourse with their regular partner (UAIR), while a quarter reported always using condoms for anal intercourse (24.7%). In 2012, almost a quarter of men with regular partners (24.0%) reported having no anal intercourse with their regular partner. Over the study period since 2008 there has been a significant increase in the proportion of men reporting no anal intercourse with their regular partners. At the same time, there were slight, though significant, falls in the proportions of men that always used condoms with regular partners and those that reported UAIR.

Rates of UAIR typically vary according to the HIV status of regular partners. In 2012, among HIV-positive men with regular partners, any UAIR was much more likely to be reported by men with seroconcordant regular partners (35.9%) than by men with partners who were not concordant (19.8%). Almost half of HIV-positive men in relationships (44.3%) avoided UAIR.

Among HIV-negative men with regular partners, nearly half (44.0%) reported UAIR with a seroconcordant partner, and fewer than one in ten (8.9%) reported UAIR that was not concordant. Nearly half (47.1%) of HIV-negative men with a regular partner avoided UAIR. Since 2008, there has been a significant increase in the proportion of HIV-negative men who engage in seroconcordant UAIR, and a significant decrease in the proportion of HIV-negative men who report UAIR that is not seroconcordant.

Casual male partners

Use of condoms for anal intercourse remains more common with casual partners than with regular partners. In 2012, almost half of men with casual partners reported always using condoms for anal intercourse (46.5%), while a third (34.0%) reported any unprotected anal intercourse with casual partners (UAIC). The rate of UAIC was stable between 2011 and 2012, and the trend over time is also stable. Consistent condom use has declined slightly since 2008.

In 2012, HIV-positive men with casual partners remained more likely to report any UAIC (69.1%) than HIV-negative men with casual partners (29.1%). Since 2008, the proportion of HIV-positive men who report UAIC has increased significantly, while the proportion of HIV-negative men reporting UAIC has remained stable. In 2012, HIV-positive men remained much more likely to report any disclosure of their HIV status before sex to casual partners compared with HIV-negative men (81.6% vs. 55.5%). However, HIV-negative men have become much more likely to report disclosure of HIV status to casual partners over time.

Among men who reported any UAIC, a greater proportion of HIV-positive men (48.7%) consistently disclosed their HIV status to all casual partners compared with HIV-negative men (34.8%). Over time, HIV-negative men who engage in UAIC have become significantly more likely to disclose their HIV status to all casual partners.

In 2011, new questions were introduced to assess the use of non-condom-based risk reduction strategies among men who engage in UAIC. In 2012, about four in every ten HIV-positive men who reported engaging in UAIC (41.6%) said they only had UAIC when they knew their partners were seroconcordant (serosorting). The proportions of HIV-positive men who reported always using strategic positioning or

withdrawal during UAIC were relatively small (less than 10%). Among HIV-negative men who engaged in UAIC, a third (32.0%) said they only had UAIC with casual partners who they knew were seroconcordant (serosorting), with smaller proportions (around one in ten) reporting consistent strategic positioning or withdrawal before ejaculation.

Sexual health

As in previous surveys, in 2012 a higher proportion of HIV-positive men (89.2%) reported having any sexual health test (including a blood test for syphilis) compared with HIV-negative men (71.7%). Since 2008, there has been a significant increase in the proportion of HIV-positive men reporting any STI test (not including blood tests) while this proportion has been steady among HIV-negative men. In 2012, 78.7% of HIV-positive men and 61.0% of HIV-negative men reported a blood test for syphilis. Almost three-quarters of all men were aware that syphilis can be symptomless (73.4%) and that it is transmissible through oral sex (69.5%). There has been a small but significant decline in knowledge about syphilis between 2010 and 2012.

Drug use

Recreational drug use remains common within the sample, although over time the proportion of men who say they haven't used any drugs in the previous six months has increased significantly (to 38.8% of all men in 2012). Correspondingly, the proportion of men who say they have used drugs for sex has decreased significantly since 2008.

The most frequently used drugs in the six months prior to the survey were amyl/poppers (40.9%), ecstasy (26.9%), marijuana (28.8%), Viagra (21.5%), cocaine (19.2%) and GHB (11.6%). Since 2008, there have been significant decreases in the use of ecstasy, marijuana, crystal methamphetamine, amphetamine/speed, ketamine and GHB.

In general, HIV-positive men remain more likely to report drug use compared with HIV-negative men. HIV-positive men are disproportionately likely to report any injecting drug use compared with HIV-negative men (18.2% vs. 2.9% in 2012).

Knowledge and use of PEP and PrEP

In 2012, over half the participants (58.2%) reported that they knew post-exposure prophylaxis (PEP) was available, no change from 2011. In 2011, questions were added to assess the use of anti-HIV (antiretroviral) drugs for prevention of HIV before and after unprotected sex—pre-exposure prophylaxis (PrEP) and PEP. Unlike PEP, PrEP is not currently available in Australia through the health system. In 2012, 28 men (1.1%) said they had used anti-HIV drugs as PrEP and 65 men (2.6%) said they had used PEP. These proportions are unchanged from 2011.

Findings

Reporting

Data are shown for the period 2008–2012. Each table includes the statistical significance (p-value), if any, of the change between 2011 and 2012 and the trend over time (2008–2012). An alpha level of 0.05 was used for all statistical tests. Changes between 2011 and 2012 were assessed with logistic regression (comparing one category with all the others) or chi-square (looking for any overall change in the distribution of responses). In tables where there are mutually exclusive categories (shown on separate rows), the *p*-value of the logistic regression test (if shown) indicates a statistically significant change within that category compared with all the others. In tables where a chi-square test has been performed, there is one test result reported (and this is highlighted with shading). For statistically significant trends over time, tested with logistic regression, the direction of the change (an increase or decrease) is indicated. Where there is no significant change, ns (non-significant) is shown. Where there are low frequencies or data over time are not comparable, tests have not been performed and are marked NA (not applicable). Please exercise caution when interpreting results where there are low frequencies. When data are missing or were not collected in a given year, this is indicated in the table by a dash (–).

Tables

The findings of the survey are presented in tables 1 to 30 below.

Table 1: Recruitment venue

	2008 η (%)	2009 η (%)	2010 η (%)	2011 η (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>a</i> -value)
Fair Day	1302 (58.6)	1288 (54.9)	1639(60.3)	1464 (45.8)	1127 (39.6)	Decrease $p < .001$	Decrease <i>p</i> < .001
Sexual health clinics	199 (9.0)	261 (11.1)	152(5.6)	327 (10.2)	318 (11.2)	SU	Increase <i>p</i> < .05
Sex-on-premises venues	240 (10.8)	209 (8.9)	299(11.0)	334 (10.5)	369 (13.0)	Increase $p < .01$	Increase $p < .01$
Gay social venues	481 (21.7)	588 (25.1)	629(23.1)	1069 (33.5)	1029 (36.2)	Increase $p < .05$	Increase <i>p</i> < .001
Total	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		

The proportion of men recruited at Fair Day in 2012 was significantly lower than in 2011. Conversely, there were significantly greater proportions of men recruited at gay social venues and sex-on-premises venues in 2012. Since 2008 there has been a significant decrease in the proportion of participants recruited at Fair Day while the proportions recruited from gay social venues, sexual health clinics and sexon-premises have significantly increased.

Table 2: Age

	2008	2009	2010	2011	2012	Change from 2011	Trend over time
	٧(%)	0%)	0%)	0%)	n (%)	(ø-value)	(g-value)
Under 25	268 (12.3)	308 (13.8)	281(10.4)	356 (11.2)	286 (10.1)	NS	Decrease <i>p</i> < .01
25–29	302 (13.8)	313 (14.0)	396(14.6)	544 (17.1)	427 (15.1)	Decrease <i>p</i> < .05	Increase <i>p</i> < .01
30–39	705 (32.3)	753 (33.6)	880(32.5)	973 (30.6)	866 (30.6)	SU	Decrease p < .05
40-49	630 (28.8)	560 (25.0)	758(28.0)	843 (26.5)	765 (27.1)	SU	SU
50 and over	281 (12.9)	306 (13.7)	392(14.5)	460 (14.5)	484 (17.1)	Increase ρ < .01	Increase <i>p</i> < .001
Total	2186 (100)	2240 (100)	2707 (100)	3176 (100)	2828 (100)		

Since 2008 there have been small but significant changes to the age distribution of the sample. There have been slight, though significant, downward trends in the proportions of participants either aged under 25 or in their thirties. Conversely, over the same period, there have been significant upward trends in the proportions of participants aged 25–29 years and over 50.

Table 3: HIV testing

	2008 7 (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
All men							
Ever tested for HIV	2075 (93.4)	2134 (91.0)	2503 (92.1)	2860 (89.5)	2501 (88.0)	SU	Decrease <i>p</i> < .001
Total	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		
Non-HIV-positive men							
Tested for HIV in previous 12 months	1271 (72.1)	1319 (71.8)	1462 (66.7)	1790 (71.9)	1500 (69.1)	Decrease <i>p</i> < .05	ns
Total	1763 (100)	1836 (100)	2191 (100)	2490 (100)	2172 (100)		

Between 2008 and 2012 there was a significant decline in the proportion of men that reported ever being tested for HIV. The proportion of non-HIV-positive men reporting having been tested for HIV in the previous 12 months has been generally been stable during the reporting period, but decreased slightly between 2011 and 2012.

Table 4: HIV test result

	2008 7 (%)	2009 n (%)	2010 η (%)	2011 η (%)	2012 n (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>o</i> -value)
HIV-positive	301 (14.5)	280 (13.2)	287 (11.5)	352 (12.3)	313 (12.5)	SU	Decrease <i>p</i> < .05
HIV-negative	1725 (83.2)	1681 (79.1)	2145 (85.9)	2145 (85.9)	2125 (85.1)	NS	Increase <i>p</i> < .001
Unknown status	48 (2.3)	164 (7.7)	64 (2.6)	64 (2.2)	59 (2.4)	NS	Decrease <i>p</i> < .001
Total	2074 (100)	2125 (100)	2496 (100)	2854 (100)	2497 (100)		

Over the period between 2008 and 2012 there has been a slight, though significant, downward trend in the proportion of men reporting that they are HIV-positive and a corresponding upward trend in the proportion of men reporting that they are HIV-negative.

Table 5: Use of combination antiretroviral treatment among HIV-positive men

On treatment 216 (73.5) 212 (77.1) 215 (77.6) 270 (80.6) 264 (86.6) Increase $\rho < .05$ Increase $\rho < .001$ Increase		2008 η (%)	2009 η (%)	2010 η (%)	2011 η (%)	2012 n (%)	Change from 2011 (<i>o</i> -value)	Trend over time (<i>o</i> -value)
294 (100) 275 (100) 277 (100) 335 (100)	On treatment	216 (73.5)	212 (77.1)	215 (77.6)	270 (80.6)	264 (86.6)	Increase <i>p</i> < .05	Increase <i>p</i> < .001
	Total	294 (100)	275 (100)	277 (100)	335 (100)	305 (100)		

In 2102 there was significant increase in the proportion of HIV-positive men reporting they were using combination antiretroviral treatment, continuing the trend over time.

Table 6: Undetectable viral load and CD4 count among HIV-positive men, by treatment status

	2008 7 (%)	2009 7 (%)	2010 η (%)	2011 7 (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>g</i> -value)
Men using ART							
Undetectable viral load	185 (85.7)	183 (86.3)	197 (91.6)	256 (94.8)	249 (94.3)	SU	Increase <i>p</i> < .001
CD4 count > 500	I	1	1	I	148 (56.1)	I	I
Total	216 (100)	212 (100)	215 (100)	270 (100)	264 (100)		
Men not using ART							
Undetectable viral load	10 (13.2)	10 (15.9)	20 (33.3)	13 (20.3)	12 (29.3)	ns	Increase <i>p</i> < .05
CD4 count > 500	I	I	I	I	16 (39.0)	I	I
Total	76 (100)	63 (100)	(100)	(100)	41 (100)		

The proportion of men using ART and reporting an undetectable viral load has increased significantly over the period since 2008. While the proportion of men not using ART that report an undetectable viral load than men not on treatment.

Table 7: Sexual relationships with men in the six months prior to the survey

	2008 η (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 n (%)	Change from 2011 (<i>c</i> -value)	Trend over time (a-value)
None	309 (15.2)	370 (16.8)	l	446 (14.8)	436 (16.3)	ns	ns
Casual only	466 (23.0)	534 (24.2)	1	740 (24.6)	665 (24.9)	SU	SU
Regular plus casual	644 (31.8)	659 (29.9)	ı	897 (29.8)	812 (30.4)	ns	SU
Regular only (monogamous)	(30.0)	641 (29.1)	I	926 (30.8)	758 (28.4)	Decrease <i>p</i> < .05	SU
Total	2027 (100)	2204 (100)	ı	3009 (100)	2671 (100)		

Note: Reliable data not available for 2010.

There was a slight, though significant, decrease in the proportion of participants in monogamous relationships between 2011 and 2012.

Table 8: Agreements with regular male partners about sex within the relationship

	2008 7 (%)	2009 n (%)	2010 7 (%)	2011 n (%)	2012 n (%)	Change from 2011 (<i>o</i> -value)	Trend over time (<i>a</i> -value)
No agreement about sex within the relationship	638 (41.1)	695 (40.9)	803 (43.6)	814 (37.7)	726 (38.9)	SU	Decrease $p < .05$
No anal intercourse permitted	73 (4.7)	88 (5.2)	53 (2.9)	69 (3.2)	78 (4.2)	SU	Decrease <i>p</i> < .05
Anal intercourse permitted only with a condom	355 (22.8)	399 (23.5)	442 (24.0)	562 (26.0)	460 (24.7)	SU	SL
Anal intercourse permitted without a condom	488 (31.4)	517 (30.4)	545 (29.6)	716 (33.1)	601 (32.2)	SU	SL
Total	1554(100)	1699 (100)	1843 (100)	2161 (100)	1865 (100)		

Over the period since 2008 there has been slight, though significant, downward trend in the proportion of participants reporting no agreement about sex within the relationship. The proportion of participants with an agreement to have no anal intercourse within the relationship has declined slightly since 2008.

Table 9: Agreements with regular male partners about sex outside the relationship

	2008 η (%)	2009 η (%)	2010 n (%)	2011 7 (%)	2012 n (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
No agreement about casual sex	722 (46.5)	801 (47.2)	789 (42.8)	910 (42.1)	822 (44.1)	SU	Decrease <i>p</i> < .01
No sex with casual partners permitted	373 (24.0)	393 (23.1)	487 (26.4)	564 (26.1)	467 (25.0)	SU	SU
No anal intercourse with casual partners permitted	44 (2.8)	64 (3.8)	73 (4.0)	61 (2.8)	53 (2.8)	SU	SU
Anal intercourse with casual partners permitted only with a condom	379 (24.4)	394 (23.2)	440 (23.9)	571 (26.4)	476 (25.5)	SU	SU
Anal intercourse with casual partners permitted without a condom	36 (2.3)	47 (2.8)	54 (2.9)	55 (2.5)	47 (2.5)	SU	SU
Total	1554 (100)	1699 (100)	1843 (100)	2161 (100)	1865 (100)		

Since 2008 there has been a slight downward trend in the proportion of men reporting no agreement with their regular partners about sex with casual partners.

Gay Community Periodic Survey: Sydney, February 2012 Hull, Mao, Kao, Edwards, Prestage, Zablotska, de Wit and Holt

Table 10: Match of HIV status between regular partners

	2008 n (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
HIV-positive men							
Seroconcordant	68 (35.8)	67 (34.4)	(20.2)	79 (37.8)	95 (49.5)	Increase $p < .05$	Increase <i>p</i> < .01
Serodiscordant	79 (41.6)	76 (39.0)	65 (37.4)	94 (45.0)	77 (40.1)	SU	SU
Serononconcardant	43 (22.6)	52 (26.7)	40 (23.0)	36 (17.2)	20 (10.4)	NS	Decrease <i>p</i> < .001
Total	190 (100)	195 (100)	174 (100)	209 (100)	192 (100)		
HIV-negative men							
Seroconcordant	752 (61.8)	794 (64.3)	762 (51.5)	1303 (74.4)	1119 (76.3)	SU	Increase <i>p</i> < .001
Serodiscordant	63 (5.2)	63 (5.1)	43 (2.9)	100 (5.7)	67 (4.6)	SU	NS
Serononconcordant	402 (33.0)	378 (30.6)	676 (45.6)	348 (19.9)	281 (19.2)	SU	Decrease <i>p</i> < .001
Total	1217 (100)	1235 (100)	1481 (100)	1751 (100)	1467 (100)		

In the 2012 survey there was a significant increase in the proportion of HIV-positive participants that reported their partners were also HIV-positive. Furthermore, there has been a significant upward trend in this proportion since 2008. Conversely, the proportion of HIV-positive participants reporting serononcondant relationships has declined since 2008. HIV-negative men with regular partners have also become more likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely to report being in a seroconcordant relationship and less likely a

Table 11: Anal intercourse and condom use with regular partners

	2008 7 (%)	2009 η (%)	2010 n (%)	2011 η (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
No anal intercourse	298 (19.2)	275 (16.2)	183 (9.9)	494 (22.9)	448 (24.0)	SU	Increase <i>p</i> < .001
Always uses a condom	436 (28.1)	510 (30.0)	546 (29.6)	602 (27.9)	460 (24.7)	Decrease <i>p</i> < .05	Decrease <i>p</i> < .01
Sometimes does not use a condom	820 (52.8)	914 (53.8)	1114 (60.4)	1065 (49.3)	957 (51.3)	SU	Decrease <i>p</i> < .05
Total	1554 (100)	1699 (100)	1843 (100)	2161 (100)	1865 (100)		

Over the period from 2008 there was an upward trend in the proportion of men reporting no anal intercourse with their regular partners. Conversely there was a significant downward trend in the proportion of partners and intercourse with their regular partners has declined slightly over time.

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Table 12: Unprotected anal intercourse with regular partners, by match of HIV status

	2008 7 (%)	2009 η (%)	2010 7 (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
HIV-positive men							
Seroconcordant UAIR	49 (25.3)	50 (25.3)	61 (35.1)	49 (23.4)	(9 (32.9)	Increase $p < .01$	SU
Not concordant UAIR	50 (25.8)	60 (30.3)	47 (27.0)	55 (26.3)	38 (19.8)	SU	SU
No UAIR	95 (49.0)	88 (44.4)	(97.9)	105 (50.2)	85 (44.3)	SU	SU
Total	194 (100)	198 (100)	174 (100)	209 (100)	192 (100)		
HIV-negative men							
Seroconcordant UAIR	456 (36.6)	497 (39.8)	521 (35.0)	740 (42.3)	646 (44.0)	SU	Increase <i>p</i> < .001
Not concordant UAIR	207 (16.6)	187 (15.0)	392 (26.3)	160 (9.1)	130 (8.9)	SU	Decrease <i>p</i> < .001
No UAIR	584 (46.8)	564 (45.2)	577 (38.7)	851 (48.6)	691 (47.1)	NS	NS
Total	1247 (100)	1248 (100)	1490 (100)	1751 (100)	1467 (100)		

The proportion of HIV-positive participants with HIV-positive regular partners that reported unprotected anal intercourse with their partners increased between 2011 and 2012. Among HIV-negative partners there has been a significant upward trend since 2008 in the proportion reporting unprotected anal intercourse with HIV-negative regular partners and a decline in the proportion reporting UAI with partners who are not concordant.

Table 13: HIV-negative men who engaged in UAIR and always used risk-reduction strategies with partners who were not concordant

ı	1						
	2008 n (%)	2009 7 (%)	2010 η (%)	2011 7 (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Took insertive position during UAIR	54 (26.1)	65 (34.8)	112 (28.6)	52 (32.5)	40 (30.8)	SU	SU
Partner withdrew before ejaculation when participant was receptive	52 (25.1)	34 (18.2)	84 (21.4)	46 (28.8)	27 (20.8)	SU	SL
Total (not mutually exclusive)	207	187	392	160	130		

Table 14: Anal intercourse and condom use with casual partners

	2008 7 (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 η (%)	Change from 2011 (<i>o</i> -value)	Trend over time (<i>p</i> -value)
No anal intercourse	288 (19.3)	252 (16.0)	263 (15.5)	399 (20.0)	346 (19.5)	ns	ns
Always uses a condom	765 (51.4)	743 (47.1)	850 (50.1)	937 (46.9)	823 (46.5)	SU	Decrease $p < .01$
Sometimes does not use a condom	436 (29.3)	583 (36.9)	585 (34.5)	660 (33.1)	602 (34.0)	ns	SU
Total	1489 (100)	1578 (100)	1698 (100)	1996 (100)	1771 (100)		

Since 2008 there has been a significant downward trend in the proportion of participants with casual partners that reported always using condoms for anal intercourse with those partners.

Table 15: Any unprotected anal intercourse with casual partners, by HIV status of participants

	2008 n (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>o</i> -value)
HIV-negative men	291 (24.9)	363 (32.2)	419 (31.1)	462 (29.8)	394 (29.1)	SU	SU
Total	1167 (100)	1129 (100)	1349 (100)	1551 (100)	1354 (100)		
HIV-positive men	120 (53.8)	127 (61.1)	127 (59.6)	141 (56.2)	154 (69.1)	Increase <i>p</i> < .01	Increase <i>p</i> < .05
Total	223 (100)	208 (100)	213 (100)	251 (100)	223 (100)		

HIV-positive men remain more likely than HIV-negative men to report unprotected anal intercourse with casual partners. Furthermore, the proportion of HIV-positive participants reporting any unprotected anal intercourse with casual partners has increased significantly since 2008.

Table 16: Disclosure of HIV status to or from casual partners, by HIV status of participants

	2008	2009	2010	2011	2012	Change from 2011	Trend over time
	n (%)	n (%)	7 (%)	n (%)	٦ (%)	(Ø-valne)	(Ø-valne)
HIV-positive men							
Told casual partners	168 (75.3)	160 (76.9)	164 (77.0)	191 (76.1)	182 (81.6)	SU	SU
Told by casual partners	145 (65.0)	127 (61.1)	143 (67.1)	165 (65.7)	155 (69.5)	NS	NS
Total (not mutually exclusive)	223	208	213	251	223		
HIV-negative men							
Told casual partners	557 (47.7)	555 (49.2)	703 (52.1)	820 (52.9)	752 (55.5)	SU	Increase <i>p</i> < .001
Told by casual partners	548 (47.0)	556 (49.2)	740 (54.9)	837 (54.0)	760 (56.1)	NS	Increase <i>p</i> < .001
Total (not mutually exclusive)	1167	1129	1349	1551	1354		

Over the period since 2008 there have been significant upward trends in the proportions of HIV-negative participants reporting that they told any of their casual partners their HIV status before sex or that any of their casual partners disclosed to them before sex.

Table 17: Consistent disclosure of HIV status to casual partners among men who engaged in unprotected anal intercourse, by HIV status of participants

	2008 η (%)	2009 7 (%)	2010 η (%)	2011 η (%)	2012 n (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
HIV-positive men who disclosed to all	39 (32.5)	49 (38.9)	45 (35.4)	52 (36.9)	75 (48.7)	Increase <i>p</i> < .05	Increase <i>p</i> < .05
Total	120 (100)	126 (100)	127 (100)	141(100)	154 (100)		
HIV-negative men who disclosed to all	67 (23.3)	99 (28.7)	104 (25.1)	168 (37.3)	137 (34.8)	SU	Increase <i>p</i> < .001
Total	291 (100)	363 (100)	419 (100)	462 (100)	394 (100)		

In 2012, among HIV-positive participants that engaged in UAI with casual partners, there was a significant increase in the proportion who reported that they disclosed their HIV status to all casual partners. Since 2008, consistent disclosure to all partners has increased significantly among HIV-positive and HIV-negative men who engaged in UAIC.

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Table 18: Positioning in unprotected anal intercourse with casual male partners, by HIV status of participants

	2008 7 (%)	2009 η (%)	2010 η (%)	2011 n (%)	2012 n (%)	Change from 2011 (<i>0</i> -value)	Trend over time (<i>p</i> -value)
HIV-positive men							
Receptive only UAIC	20 (16.7)	11 (8.7)	31 (24.4)	22 (15.6)	36 (23.4)	NS	Increase <i>p</i> < .05
Total	120 (100)	127 (100)	127 (100)	141 (100)	154 (100)		
HIV-negative men							
Insertive only UAIC	99 (34.0)	120 (33.1)	148 (35.3)	162 (35.1)	141 (35.8)	NS	ns
Total	291 (100)	363 (100)	419 (100)	462 (100)	394 (100)		

The proportion of HIV-positive men reporting receptive only UAIC increased significantly between 2008 and 2012.

Table 19: Men who always used risk-reduction strategies when engaging in unprotected anal intercourse with casual partners in the six months prior to the survey, by HIV status of participants

	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)
HIV-positive men			
Ensured partners were seroconcordant before UAIC (serosorting)	52 (36.9)	64 (41.6)	
Took receptive position during UAIC when partners were not concordant	7 (5.0)	8 (5.2)	Ç
Participant withdrew before ejaculation when he was insertive	6 (4.3)	13 (8.4)	<u>n</u>
Partner withdrew before ejaculation when participant was receptive	6 (4.3)	14 (9.1)	
Total (not mutually exclusive)	141 (100)	154 (100)	
HIV-negative men			
Ensured partners were seroconcordant before UAIC (serosorting)	150 (32.5)	126 (32.0)	
Took insertive position during UAIC when partners were not concordant	49 (10.6)	49 (12.4)	2
Participant withdrew before ejaculation when he was insertive	38 (8.2)	29 (7.4)	<u>o</u>
Partner withdrew before ejaculation when participant was receptive	50 (10.8)	42 (10.7)	
Total (not mutually exclusive)	462 (100)	394 (100)	
	,	,	

Table 20: Where men met their male sex partners in the six months prior to the survey

	2010 η (%)	2011 η (%)	2012 71 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (\theta-value)
Internet	1048(38.5)	1233 (38.6)	1038 (36.5)	NS	NS
Mobile app e.g. Grindr	ı	730 (22.9)	896 (31.5)	Increase <i>p</i> < .001	I
Gay bar	971 (35.7)	968 (30.3)	776 (27.3)	Decrease ρ < .01	Decrease <i>p</i> < .001
Dance party	577 (21.2)	504 (15.8)	421 (14.8)	NS	Decrease <i>p</i> < .001
Beat	425(15.6)	413 (12.9)	347 (12.2)	NS	Decrease <i>p</i> < .001
Gay saunas	983 (36.2)	995 (31.2)	874 (30.7)	NS	Decrease <i>p</i> < .001
Other sex-on-premises venues	470 (17.3)	474 (14.8)	404 (14.2)	NS	Decrease <i>p</i> < .001
Sex workers	77(2.8)	95 (3.0)	93 (3.3)	NS	NS
In other Australian cities	611(22.5)	587 (18.4)	490 (17.2)	NS	Decrease <i>p</i> < .001
Elsewhere in Australia	417 (15.3)	390 (12.2)	341 (12.0)	NS	Decrease <i>p</i> < .001
Private sex parties	245 (9.0)	210 (6.6)	203 (7.1)	NS	Decrease $p < .01$
Gym	265 (9.8)	297 (9.3)	241 (8.5)	NS	NS
Overseas	690 (25.4)	672 (21.0)	597 (21.0)	NS	Decrease <i>p</i> < .001
Total (not mutually exclusive)	2719 (100)	3194 (100)	2843 (100)		

The proportions of participants that reported meeting male sex partners at gay bars, dance parties, beats, gay saunas, other sex venues and private sex parties have decreased significantly since 2010. In contrast, since 2011 there has been a significant increase in the proportion of participants reporting using mobile applications to meet male sex partners.

Table 21: Knowledge about syphilis

	2010 n (%)	2011 η (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (\rho\psi value)
Aware that syphilis can have no physical symptoms	2154 (79.2)	2306 (72.2)	2086 (73.4)	SU	Decrease <i>p</i> < .001
Aware that syphilis can be transmitted through oral sex	2013 (74.0)	2240 (70.1)	1975 (69.5)	ns	Decrease <i>p</i> < .001
Total (not mutually exclusive)	2719 (100)	3194 (100)	2843 (100)		

Over the period since 2010 there has been a significant fall in the proportion of participants who were aware that someone could have syphilis without physical symptoms and a similar decrease in the proportion of participants who were aware that syphilis can be transmitted through oral sex.

Table 22: STI testing among HIV-positive men in the 12 months prior to the survey

	2008 η (%)	2009 7 (%)	2010 <i>n</i> (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>o</i> -value)	Trend over time (<i>p</i> -value)
Anal swab	149 (49.3)	151 (53.9)	175(61.0)	220 (62.5)	190 (60.5)	SU	Increase $p < .001$
Throat swab	165 (54.6)	158 (56.4)	176(61.3)	220 (62.5)	199 (63.4)	SU	Increase <i>p</i> < .01
Penile swab	133 (44.0)	115 (41.1)	134(46.7)	155 (44.0)	139 (44.3)	SU	SU
Urine sample	183 (60.6)	175 (62.5)	192(66.9)	252 (71.6)	235 (74.8)	SU	Increase <i>p</i> < .001
Blood test other than for HIV	237 (78.5)	220 (78.6)	196(68.3)	275 (78.1)	235 (74.8)	SU	SU
Blood test for syphilis	I	224 (80.0)	220(76.7)	280 (79.6)	247 (78.7)	SU	SU
Any STI test (not including blood tests)	205 (67.9)	197 (70.4)	206 (71.8)	269 (76.4)	247 (78.7)	SU	Increase <i>p</i> < .001
Any STI test (including blood tests)	260 (86.1)	252 (90.0)	249(86.7)	320 (90.9)	280 (89.2)	SU	NS
Total (not mutually exclusive)	302 (100)	280 (100)	287 (100)	352 (100)	314 (100)		

Note: From 2009, the item 'Blood test for syphilis' was added and included in the calculation for any STI test (including blood tests).

Between 2008 and 2012 there have been upward trends in the proportions of HIV-positive participants reporting anal swabs, throat swabs and urine sample testing for STIs.

Table 23: STI testing among HIV-negative men in the 12 months prior to the survey

	2008 7 (%)	2009 7 (%)	2010 n (%)	2011 η (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Anal swab	796 (45.9)	778 (46.1)	954 (44.4)	1184 (48.4)	996 (46.7)	NS	ns
Throat swab	853 (49.1)	830 (49.1)	1023 (47.6)	1245 (50.9))	1072 (50.2)	SU	SU
Penile swab	669 (38.5)	636 (37.7)	789 (36.7)	941 (38.5)	(0.75) 067	NS	NS
Urine sample	1000 (57.6)	957 (56.7)	1210 (56.3)	1441 (58.9)	1262 (59.1)	NS	ns
Blood test other than for HIV	1034 (59.6)	962 (57.0)	1189 (55.3)	1318 (53.9)	1181 (55.3)	NS	Decrease <i>p</i> < .001
Blood test for syphilis	l	1030 (61.0)	1273 (59.2)	1483 (60.7)	1302 (61.0)	SU	SU
Any STI test (not Including blood test)	1045 (60.2)	1022 (60.5)	1278 (59.4)	1517 (62.0)	1313 (61.5)	SU	SU
Any STI test (including blood tests)	1230 (70.8)	1199 (71.0)	1533 (71.3)	1741 (71.2)	1530 (71.7)	NS	NS
Total (not mutually exclusive)	1736 (100)	1689 (100)	2151 (100)	2445 (100)	2134 (100)		

Note: From 2009, the item 'Blood test for syphilis' was added and included in the calculation for any STI test (including blood tests).

Table 24: Recreational drug use among all men in the six months prior to the survey

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	2008 7 (%)	2009 η (%)	2010 7 (%)	2011 7 (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Marijuana	749 (33.7)	767 (32.7)	901 (33.1)	891 (27.9)	819 (28.8)	SU	Decrease <i>p</i> < .001
Amyl	927 (41.7)	1028 (43.8)	1203 (44.2)	1291 (40.4)	1163 (40.9)	SU	SU
Ecstasy	857 (38.6)	933 (39.8)	975 (35.9)	593 (29.8)	766 (26.9)	Decrease <i>p</i> < .05	Decrease <i>p</i> < .001
Amphetamine (speed)	351 (15.8)	374 (15.9)	386 (14.2)	361 (11.3)	311 (10.9)	NS	Decrease <i>p</i> < .001
Crystal methamphetamine	344 (15.5)	293 (12.5)	317 (11.7)	355 (11.1)	393 (13.8)	Increase <i>p</i> < .001	Decrease <i>p</i> < .05
Viagra	465 (20.9)	501 (21.4)	592 (21.8)	683 (21.4)	610 (21.5)	ns	SU
Cocaine	392 (17.6)	492 (21.0)	598 (22.0)	659 (21.6)	546 (19.2)	NS	SU
Ketamine (special K)	282 (12.7)	301 (12.8)	284 (10.5)	306 (9.6)	233 (8.2)	NS	Decrease <i>p</i> < .001
TSD	102 (4.6)	127 (5.4)	150 (5.5)	I	I	I	I
GHB	309 (13.9)	326 (13.9)	356 (13.1)	422 (13.2)	330 (11.6)	NS	Decrease <i>p</i> < .05
Heroin	15 (0.7)	31 (1.3)	15 (0.6)	27 (0.9)	24 (0.8)	NS	SU
Mephedrone (meow meow)	I	I	I	69 (2.2)	50 (1.8)	I	I
Steroids	51 (2.3)	46 (2.0)	60 (2.2)	I	I	I	I
Other drugs	88 (3.7)	129 (5.5)	148 (5.4)	208 (6.5)	197 (6.9)	NS	Increase <i>p</i> < .001
Total (not mutually exclusive)	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		
Number of drugs used							
None	754 (33.9)	777 (33.1)	927 (34.1)	1246 (39.0)	1104 (38.8)	NS	Increase <i>p</i> < .001
One or two drugs	661 (29.8)	715 (30.5)	838 (30.8)	948 (29.7)	863 (30.4)	NS	NS
More than two drugs	807 (36.3)	854 (36.4)	954 (35.1)	1000 (31.31)	876 (30.8)	NS	Decrease $p < .001$
Total	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		

While there is a significant downward trend in the use of crystal methamphetamine since 2008, in the 2012 survey there was a slight, though significant increase in the proportion of participants reporting the use of this drug. There have been significant downward trends since 2008 in the use of marijuana, ecstasy, amphetamine, ketamine and GHB. However, there was a significant increase in the use of marijuana, ecstasy, amphetamine, ketamine and GHB. However, there was a significant increase in the proportion of participants reporting no drug use and a corresponding fall in the proportion reporting the use of more than two drugs in the previous six months.

Table 25: Recreational drug use among HIV-positive men in the six months prior to the survey

	2008 n (%)	2009 n (%)	2010 7 (%)	2011 η (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Marijuana	157 (52.0)	151 (53.9)	141 (49.1)	145 (41.2)	134 (42.7)	SU	Decrease <i>p</i> < .001
Amyl nitrite (poppers)	165 (54.6)	153 (54.6)	169 (58.9)	184 (52.3)	165 (52.6)	NS	NS
Ecstasy	131 (43.4)	110 (39.3)	124 (43.2)	113 (32.1)	96 (30.6)	NS	Decrease <i>p</i> < .001
Amphetamine (speed)	64 (21.2)	54 (19.3)	53 (18.5)	45 (12.8)	46 (14.7)	NS	Decrease $p < .01$
Crystal methamphetamine	86 (28.5)	80 (28.6)	74 (25.8)	97 (27.6)	105 (33.4)	NS	NS
Viagra	116 (38.4)	124 (44.3)	117 (40.8)	143 (40.6)	124 (39.5)	NS	ns
Total (not mutually exclusive)	302 (100)	280 (100)	287 (100)	352 (100)	314 (100)		
Number of drugs used							
None	51 (16.9)	41 (14.6)	50 (17.4)	77 (21.9)	78 (24.8)	NS	Increase <i>p</i> < .001
One or two drugs	93 (30.8)	97 (34.6)	88 (30.7)	120 (34.1)	88 (28.0)	NS	NS
More than two drugs	158 (52.3)	142 (50.7)	149 (51.9)	155 (44.0)	148 (47.1)	NS	Decrease <i>p</i> < .05
Total	302 (100)	280 (100)	287 (100)	352 (100)	314 (100)		

Drug use among HIV-positive participants remains more common than among HIV-negative participants. However, there have been significant downward trends in the use of marijuana, ecstasy and amphetamine by HIV-positive participants since 2008. Overall, drug use by HIV-positive participants also appears to be falling with a significant increase in the proportion of participants reporting no drug use and a corresponding fall in the proportion reporting the use of more than two drugs in the previous six months.

Table 26: Recreational drug use among HIV-negative men in the six months prior to the survey

	2008 η (%)	2009 η (%)	2010 n (%)	2011 η (%)	2012 n (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Marijuana	539 (31.1)	519 (3.07)	678 (31.5)	657 (26.9)	600 (28.1)	SU	Decrease <i>p</i> < .001
Amyl nitrite (poppers)	716 (41.2)	755 (44.7)	943 (43.8)	1025 (41.9)	919 (43.1)	SU	NS
Ecstasy	683 (39.3)	707 (41.9)	778 (36.2)	776 (31.7)	608 (28.5)	Decrease <i>p</i> < .05	Decrease <i>p</i> < .001
Amphetamine (speed)	264 (15.2)	267 (15.8)	302 (14.0)	285 (11.7)	241 (11.3)	NS	Decrease <i>p</i> < .001
Crystal methamphetamine	240 (13.8)	185 (11.0)	232 (10.8)	235 (9.6)	261 (12.2)	Increase $p < .01$	NS
Viagra	331 (19.1)	335 (19.8)	451 (21.0)	505 (20.7)	453 (21.2)	SU	NS
Total (not mutually exclusive)	1736 (100)	1689 (100)	2151 (100)	2445 (100)	2134 (100)		
Number of drugs used							
None	608 (35.0)	564 (33.40	740 (34.4)	921 (37.70	784 (36.7)	NS	Increase <i>p</i> < .05
One or two drugs	524 (30.2)	511 (30.3)	668 (31.1)	742 (30.4)	685 (32.1)	SU	SU
More than two drugs	604 (34.8)	614 (36.40	743 (34.5)	782 (32.0)	665 (31.2)	NS	Decrease <i>p</i> < .001
Total	1736 (100)	1689 (100)	2151 (100)	2445 (100)	2134 (100)		

While there has been a significant downward trend among HIV-negative participants in the use of crystal methamphetamine since 2008, in the 2012 survey there was a slight, though significant increase in the proportion of participants reporting use of this drug. Since 2008 there have been declines in the use of marijuana, ecstasy and amphetamine. Overall, drug use by HIV-negative participants appears to be falling with a significant increase in the proportion of participants reporting no drug use and a corresponding fall in the proportion reporting the use of more than two drugs in the previous six months.

Table 27: Injecting drug use in the six months prior to the survey, by HIV status of participants

	2008 7 (%)	2009 7 (%)	2010 7 (%)	2011 7 (%)	2012 11 (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
All men	123 (5.5)	151 (6.4)	126 (4.6)	126 (3.9)	134 (4.7)	SU	SU
Total	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		
HIV-positive men	52 (17.2)	57 (20.4)	47 (16.4)	50 (14.2)	57 (18.2)	SU	SU
Total	302 (100)	280 (100)	287 (100)	352 (100)	314 (100)		
HIV-negative men	61 (3.5)	68 (4.0)	72 (3.4)	65 (2.7)	62 (2.9)	SU	SU
Total	1736 (100)	1689 (100)	2151 (100)	2445 (100)	2134 (100)		

Table 28: Party drug use and group sex in the six months prior to the survey

	2008 η (%)	2009 7 (%)	2010 7 (%)	2011 η (%)	2012 η (%)	Change from 2011 (<i>p</i> -value)	Trend over time (<i>p</i> -value)
Used party drugs for sex	615 (27.7)	579 (24.7)	676 (24.9)	669 (21.0)	578 (20.3)	su	Decrease <i>p</i> < .001
Engaged in group sex during or after drug use	357 (16.1)	510 (21.7)	377 (13.9)	401 (12.6)	332 (11.7)	SU	Decrease <i>p</i> < .001
Total (not mutually exclusive)	2222 (100)	2346 (100)	2719 (100)	3194 (100)	2843 (100)		

Over the period between 2008 and 2012 there were significant downward trends in the proportions of participants reporting the use of party drugs for sex and engaging in group sex during or after drug use.

Table 29: Knowledge that post-exposure prophylaxis is available

	2010 7 (%)	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>o</i> -value)	Trend over time (<i>o</i> -value)
Aware of PEP among all men	1690 (62.2)	1820 (57.0)	1655 (58.2)	SU	Decrease $p < .01$
Total	2719 (100)	3194 (100)	2843 (100)		
Aware of PEP among non-HIV-positive men	1455 (59.8)	1544 (51.3)	1399 (55.3)	SU	Decrease <i>p</i> < .001
Total	2432 (100)	2842 (100)	2529 (100)		

Awareness of post-exposure prophylaxis has declined between 2010 and 2012.

Table 30: Use of anti-HIV medication (PREP or PEP) to prevent HIV infection by non-HIV-positive men in the last six months

	2011 7 (%)	2012 7 (%)	Change from 2011 (<i>p</i> -value)
Use of PrEP before UAI	37 (1.3)	28 (1.1)	SU
Use of PEP after UAI	80 (2.8)	65 (2.6)	SU
Total (not mutually exclusive)	2842 (100)	2529 (100)	

Appendix

Sydney Gay Community Periodic Survey 2012

Conducted by











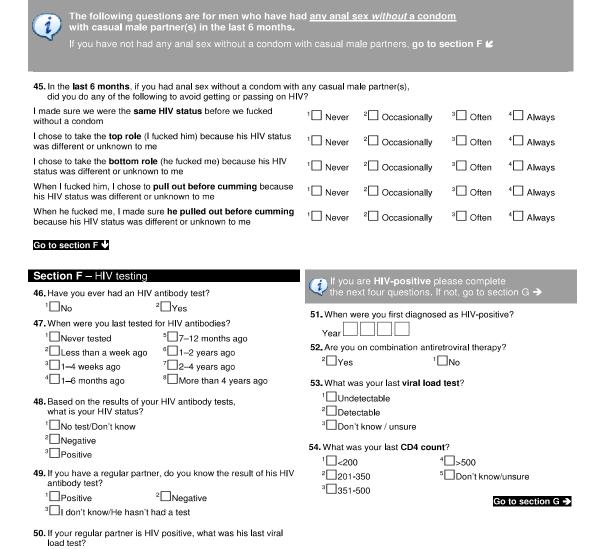


This is a survey of sexual practices of men who have had sex with another man in the last five years. This survey is completely anonymous – please do not write your name on the questionnaire.

Your responses are very important, they provide valuable information that assists in HIV health promotion efforts. PLEASE COMPLETE THE SURVEY ONCE ONLY.

Section A – About you	Section B – Your sex partners
How many of your friends are gay or homosexual men? None ² A few ³ Some ⁴ Most ⁵ All	In this survey we distinguish between REGULAR (boyfriend/lover) and CASUAL partners
2. How much of your free time is spent with gay or homosexual men? 1 None 2 A little 3 Some 4 A lot	12. Do you currently have sex with casual male partners? ¹ □No ² □Yes
Do you think of yourself as: ¹☐ Gay/Homosexual ²☐ Bisexual ³☐ Heterosexual	 13. Do you currently have sex with a regular male partner? ¹ □ No ² □ Yes 14. How would you describe your sexual relationship with your
4 Other (please specify) 4. How old are you?	current regular male partner? (choose one) ¹ We are monogamous – neither of us has casual sex ² Both my partner and I have casual sex with other men
Years 5. Are you of Aboriginal or Torres Strait Islander origin?	³ □I have casual sex with other men but my partner does not
¹□No ²□Yes 6. What is your ethnic background? (e.g. Dutch, Greek,	⁴ My partner has casual sex with other men but I do not 5 I have several regular male partners
Vietnamese, Lebanese) 1 □ Anglo-Australian 2 □ Other □ □ □	 ⁶ No current regular male partner → Go to Section C→ 15. If you are in a regular relationship with a man, for how long has it been?
7. Where were you born? ¹ Australia ² Overseas	¹ ☐ Less than 6 months ² ☐ 6-11 months
8. Where do you live? Postcode OR	³ ☐ 1–2 years ⁴ ☐ More than 2 years ⁵ ☐ Not in a regular relationship with a man
Suburb/Town	16. Do you have a clear (spoken) agreement with your regular partner about anal sex (fucking) within your relationship ? ¹ □ No agreement
¹ Employed full-time ⁴ ☐ A student	□ No agreement ² □ Agreement: No sex at all
² ☐Employed part-time ⁵ ☐Unemployed ³ ☐On pension/social security ⁶ ☐Other	³ □Agreement: No anal sex at all ⁴ □Agreement: All anal sex is with a condom
10. What is your occupation? (e.g. bartender, teacher, welder)	⁵ ☐ Agreement: Anal sex can be without a condom
(specify)	17. Do you have a clear (spoken) agreement with your regular partner about sex with casual partners?
11. What is the highest level of education you have had? 1 Less than or up to 3 years of high school / Year 10	¹□No agreement ²□Agreement: No sex at all
² Year 12 / HSC / SACE / TEE / VCE	³ Agreement: No anal sex at all
³☐ Tertiary diploma or trade certificate / TAFE	⁴ ☐Agreement: All anal sex is with a condom
⁴ University degree or CAE Go to section B ₹	⁵ Agreement: Anal sex can be without a condom
Page 1	Go to section C → SGCPS 2012/
	3001 3 2012/

Section C - Sex in the last 6 months	28. I fucked him without a condom but pulled out before I came.				
18. How many different men have you had sex with in the last 6 months?	¹ Never ² Occasionally ³ Often				
¹☐None ⁴☐6–10 men ⁷ ☐More than 50 men	 He fucked me without a condom but pulled out before he came. 				
² □One ⁵ □11–20 men ³ □2–5 men ⁶ □21-50 men	¹ Never ² Occasionally ³ Often				
19. In the last 6 months how often have you had sex with	30. I fucked him without a condom and came inside. ¹ □ Never ² □ Occasionally ³ □ Often				
men you met at or through: Never Occasionally Often	31. He fucked me without a condom and came inside.				
Internet 1 2 3	¹ Never ² Occasionally ³ Often				
Mobile app e.g. Grindr	Energy Docasionally Docasionally				
Gay bar ¹ 2 3	Section E - Casual male partners - last 6 months				
Dance party 1 2 3	32. Have you had any sex with any casual male partner/s				
Gym 1 2 3	in the last 6 months?				
Beat ¹ 2 3	¹□Yes ²□No → Go to section F →				
Gay sauna					
Other sex venue 1 2 3	In the last 6 MONTHS which of the following have you done with any of your CASUAL male partner/s?				
Sex workers ¹ 2 3					
Private sex parties 1 2 3 3	Oral sex casual partner/s:				
In other Australian cities 'L 2 3 3	33. I sucked his cock but he did NOT come in my mouth.				
Elsewhere in Australia ¹ ² ³ Overseas ¹ ² ³	¹ □Never ² □Occasionally ³ □Often				
	34. He sucked my cock but I did NOT come in his mouth.				
20. In the last 6 months, how often did you have group sex involving at least two other men?	¹ □Never ² □Occasionally ³ □Often				
¹☐Every Week ³ ☐Once / A few times	35. I sucked his cock and he came in my mouth.				
² Monthly ⁴ Never	¹ □ Never ² □ Occasionally ³ □ Often				
Go to section D ♥	,				
Section D – Regular male partners – last 6 months 21. Have you had sex with regular male partner/s	36. He sucked my cock and I came in his mouth. ¹□Never ²□Occasionally ³□Otten				
Section D — Regular male partners — last 6 months 21. Have you had sex with regular male partner/s in the last 6 months?	¹ Never ² Occasionally ³ Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹□ Yes ²□ No → Go to section E 🛪	¹ Never ² Occasionally ³ Often Anal sex casual partner/s:				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E 🛪 •	¹ Never ² Occasionally ³ Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E 🏞 in the last 6 MONTHS which of the following have you	¹ Never 2 Occasionally 3 Often Anal sex casual partner/s: 37.1 fucked him with a condom.				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E 🛪 •	1 Never 2 Occasionally 3 Often Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E 🏞 in the last 6 MONTHS which of the following have you	¹ Never ² Occasionally ³ Often Anal sex casual partner/s: 37. I fucked him with a condom. ¹ Never ² Occasionally ³ Often 38. He fucked me with a condom. ¹ Never ² Occasionally ³ Often ³ Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E ? ln the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s?	¹ Never ² Occasionally ³ Often Anal sex casual partner/s: 37. I fucked him with a condom. ¹ Never ² Occasionally ³ Often 38. He fucked me with a condom. ¹ Never ² Occasionally ³ Often 39. I fucked him without a condom but pulled out before I came.				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E ? ln the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22.1 sucked his cock but he did NOT come in my mouth.	¹ Never ² Occasionally ³ Often Anal sex casual partner/s: 37. I fucked him with a condom. ¹ Never ² Occasionally ³ Often 38. He fucked me with a condom. ¹ Never ² Occasionally ³ Often ³ Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E ? ln the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22.1 sucked his cock but he did NOT come in my mouth.	¹ Never ² Occasionally ³ Often Anal sex casual partner/s: 37. I fucked him with a condom. ¹ Never ² Occasionally ³ Often 38. He fucked me with a condom. ¹ Never ² Occasionally ³ Often 39. I fucked him without a condom but pulled out before I came.				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes	1 Never 2 Occasionally 3 Often Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often 38. He fucked me with a condom. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E ? ln the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. ¹☐ Never ²☐ Occasionally ³☐ Often 23. He sucked my cock but I did NOT come in his mouth. ¹☐ Never ²☐ Occasionally ³☐ Often	1 Never 2 Occasionally 3 Often Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often 38. He fucked me with a condom. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often 40. He fucked me without a condom but pulled out before he came.				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No So to section E To limit the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often	Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? ¹☐ Yes ²☐ No → Go to section E ? ln the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. ¹☐ Never ²☐ Occasionally ³☐ Often 23. He sucked my cock but I did NOT come in his mouth. ¹☐ Never ²☐ Occasionally ³☐ Often	Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No So to section E To limit the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often	Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often 38. He fucked me with a condom. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often 40. He fucked me without a condom but pulled out before he came. 1 Never 2 Occasionally 3 Often 41. I fucked him without a condom and came inside. 1 Never 2 Occasionally 3 Often 41. I fucked him without a condom and came inside.				
21. Have you had sex with regular male partner/s in the last 6 months? ¹	Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No Go to section E In the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often 24. I sucked his cock and he came in my mouth. 1 Never 2 Occasionally 3 Often	Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No 3 Go to section E 3 In the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often 24. I sucked his cock and he came in my mouth. 1 Never 2 Occasionally 3 Often 25. He sucked my cock and I came in his mouth. 1 Never 2 Occasionally 3 Often Anal sex regular partner/s:	Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often 38. He fucked me with a condom. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often 40. He fucked me without a condom but pulled out before he came. 1 Never 2 Occasionally 3 Often 41. I fucked him without a condom and came inside. 1 Never 2 Occasionally 3 Often 42. He fucked me without a condom and came inside. 1 Never 2 Occasionally 3 Often 43. How many of your casual partner/s 43. How many of your casual partner/s				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No 3 Go to section E 3 In the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often 24. I sucked his cock and he came in my mouth. 1 Never 2 Occasionally 3 Often 25. He sucked my cock and I came in his mouth. 1 Never 2 Occasionally 3 Often Anal sex regular partner/s: 26. I fucked him with a condom.	Never 2 Occasionally 3 Often				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No Go to section E In the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often 24. I sucked his cock and he came in my mouth. 1 Never 2 Occasionally 3 Often 25. He sucked my cock and I came in his mouth. 1 Never 2 Occasionally 3 Often Anal sex regular partner/s: 26. I fucked him with a condom. 1 Never 2 Occasionally 3 Often	Anal sex casual partner/s: 37. I fucked him with a condom. 1 Never 2 Occasionally 3 Often 38. He fucked me with a condom. 1 Never 2 Occasionally 3 Often 39. I fucked him without a condom but pulled out before I came. 1 Never 2 Occasionally 3 Often 40. He fucked me without a condom but pulled out before he came. 1 Never 2 Occasionally 3 Often 41. I fucked him without a condom and came inside. 1 Never 2 Occasionally 3 Often 42. He fucked me without a condom and came inside. 1 Never 2 Occasionally 3 Often 43. How many of your casual partner/s 43. How many of your casual partner/s				
21. Have you had sex with regular male partner/s in the last 6 months? 1 Yes 2 No 3 Go to section E 3 In the last 6 MONTHS which of the following have you done with any of your REGULAR male partner/s? Oral sex regular partner/s: 22. I sucked his cock but he did NOT come in my mouth. 1 Never 2 Occasionally 3 Often 23. He sucked my cock but I did NOT come in his mouth. 1 Never 2 Occasionally 3 Often 24. I sucked his cock and he came in my mouth. 1 Never 2 Occasionally 3 Often 25. He sucked my cock and I came in his mouth. 1 Never 2 Occasionally 3 Often Anal sex regular partner/s: 26. I fucked him with a condom.	Never 2 Occasionally 3 Often				



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¹ ☐ Undetectable

² ☐ Detectable

³ ☐ Don't know / unsure

Survey continues on next page

Section G – STI testing				Section I – Drug use							
55. Which of these sexual health tests have you had in the last 12 months?			63. How often have you used these drugs in the last 6 months?								
Anal swab	None	Once	Twice ³□	3 or more	Amyl/poppers	Never	Once/ twice	At least monthly	Every week		
Throat swab	¹∐	2	3	4	Marijuana	¹∐	2	3	4∐		
Penile swab	¹∐	2	3	4	Viagra/Cialis etc	1 🔲	2	3	4		
Urine sample	1 📙	2	3	4	Ecstasy	1 🗆	2	3 🔲	4 📙		
Blood test for HIV	1	2	3	4	Speed	¹[2	3	4 📙		
Blood test for syphilis	1	2	3	4	Cocaine	¹ 🔲	2	3	4 📙		
Other blood test	1	2	3	4	Crystal meth GHB	1 1	²	3 <u> </u>	4		
56. Where did you go the last time you had a syphilis test?					Ketamine	1 🔲	2	3	4		
¹☐My regular GP					(special K) Heroin	1	2	3	4		
² Another GP					Meow meow						
³□Sexual health clini	С				(mephedrone)	1	²	3	4		
⁴□HIV clinic					Any other drug	1 🔲	2	3	4		
⁵ □Never tested					64 How often have ye	inicato	d drugo in t	the last 6 m	ontho?		
57. Were you aware that someone could have syphilis without any			64. How often have you injected drugs in the last 6 months?								
physical symptoms?				¹∐Every week ³∐Once or twice							
¹∐Yes, I was aware ²∐No, I wasn't aware					² LAt least monthly ⁴ LNever						
58. Were you aware you could get syphilis through oral sex? ¹ □ Yes. I was aware ² □ No. I wasn't aware				65. In the last 6 months , how often have you used party drugs for the purpose of sex?							
¹□Yes, I was aware ² □No, I wasn't aware				¹ □Every week ³ □Once or twice							
59. Were you diagnosed with any sexually transmitted infection (other than HIV) in the last 12 months?					² □At least monthly ⁴ □Never						
¹□Yes	¹□Yes ² □No					66. In the last 6 months, how often have you had group sex after or while using party drugs?					
60. If you were diagnosed with a sexually transmitted infection in the last 12 months, how many of your sex partners did you tell about your diagnosis?			¹ □Every week ³ □Once or twice ² □At least monthly ⁴ □Never								
¹□None ²□A few ³□Some ⁴□All											
⁵ ☐Not been diagnosed with an STI in the last 12 months The survey concludes here.											
Go to section H ♥					THE Su	rvey C	Oncido	ies liele	F.		
Section H – HIV medication to prevent HIV				Thanl	k vou i	for you	ır time.				
61. What do you know about post-exposure prophylaxis (PEP)?				man	k you	ioi you	ii tiiiic.				
¹ ☐ It's readily available now				As this surv	ey is and	nymous,	feedback c	annot			
² ☐It will be available in the future					be provided directly. Please check the NCHSR						
³□ I've never heard about it					and ACON websites for the results of this survey.						
					http://nchsr	.arts.uns	w.edu.au				
If you are HIV-positive you can skip the next question and go to section I 🛪				http://www.acon.org.au/							
62. In the last 6 months, medication to preven			ny anti-H	v							
Before anal sex withou]Yes ²[\exists_{No}							
<u> </u>			L	,•0							
After anal sex without e.g. PEP	a condom	ı 1]Yes ²[□No							
Go to section I 7											

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