

## SUPPLEMENTARY MATERIAL

**Trends and differences in sexual practices and sexually transmitted infections in men who have sex with men only (MSMO) and men who have sex with men and women (MSMW): a repeated cross-sectional study in Melbourne, Australia.**

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**Table S1** Demographic characteristics and sexual practices among men who have sex with men only and men who have sex with men and women attending a sexual health centre in Melbourne, 2011-2018.

	<b>MSMO (N=12,795)</b>	<b>MSMW- M (N=804)</b>	<b>MSMW- W (N=839)</b>	<b>Comparison across three groups</b>	<b>Comparison between MSMW-M and MSM-W</b>
	<b>n (%)</b>	<b>n (%)</b>	<b>n (%)</b>	<b>P value</b>	<b>P value</b>
<b>Age (years), median(IQR)</b>	27 (23-33)	29 (24-39)	28 (24-36)	<0.001	0.845
<b>Country of birth</b>				<0.001	0.167
<i>Australia</i>	6,208 (48.5)	465 (57.8)	452 (53.9)		
<i>Overseas</i>	6,110 (47.8)	297 (36.9)	348 (41.5)		
<i>No information</i>	477 (3.7)	42 (5.2)	39 (4.5)		
<b>Aboriginal and Torres Strait Islander Status</b>				0.280	0.254
<i>Indigenous origin</i>	150 (1.2)	10 (1.2)	5 (0.6)		
<i>Non-Indigenous origin</i>	11,595 (90.6)	715 (88.9)	762 (90.8)		
<i>No information</i>	1,050 (8.2)	79 (9.8)	72 (8.6)		
<b>Sex overseas in the past 12 months</b>				<0.001	0.002
<i>Yes</i>	4,415 (34.5)	278 (34.6)	361 (43.0)		
<i>No</i>	7,571 (59.2)	470 (58.5)	433 (51.6)		
<i>No information</i>	809 (6.3)	56 (7.0)	45 (5.4)		
<b>Sex work during lifetime</b>				0.454	0.722
<i>Yes</i>	71 (0.6)	7 (0.9)	6 (0.7)		
<i>No</i>	12,724 (99.4)	797 (99.1)	833 (99.3)		
<b>Injected drug use in past 12 months</b>				<0.001	0.777
<i>Yes</i>	211 (1.6)	17 (2.1)	21 (2.5)		
<i>No</i>	12,363 (96.6)	763 (95.7)	797 (97.5)		
<i>No information</i>	221 (1.7)	17 (2.1)	21 (2.5)		
<b>Number of male and female sexual partners in the past 12 months, median (IQR)</b>	5 (3-10)	7 (5-12)	6 (4-11)	<0.001	<0.001
<b>Number of male sexual partners in the past 12 months, median (IQR)</b>	5 (3-10)	5 (3-10)	1 (1-2)	<0.001	<0.001
<b>Number of female sexual partners in the past 12 months, median (IQR)</b>	NA	1 (1-2)	5 (3-8)	NA	<0.001
<b>Regular sexual partner</b>				NA	<0.001
<i>No regular partner</i>	7,513 (58.7)	433 (53.9)	453 (54.1)		
<i>Regular male partner</i>	5,132 (40.1)	138 (17.2)	11 (1.3)		
<i>Regular female partner</i>	NA	195 (24.3)	350 (41.7)		
<i>Regular female and male partner</i>	NA	37 (4.6)	23 (2.7)		
<i>No information</i>	150 (1.2)	1 (0.1)	2 (0.2)		
<b>Anal sexual practice with regular male partners<sup>a</sup></b>				<0.001	0.001
<i>Receptive only</i>	435 (8.5)	10 (5.7)	2 (5.7)		
<i>Insertive only</i>	465 (9.1)	13 (7.4)	0 (0)		
<i>Receptive and insertive</i>	3,921 (76.4)	145 (82.4)	26 (74.3)		
<i>No anal sex</i>	234 (4.6)	6 (3.4)	2 (5.7)		
<i>No information</i>	79 (1.5)	2 (1.1)	5 (14.3)		
<b>Condom use with regular male partners in the past 12 months for receptive anal sex<sup>b</sup></b>				0.150	0.275
<i>Always</i>	1,241 (28.5)	50 (32.3)	12 (42.9)		
<i>Not always</i>	3,115 (71.5)	105 (67.7)	16 (57.1)		
<b>Condom use with regular male partners in the past 12 months for insertive anal sex<sup>c</sup></b>				0.142	0.935
<i>Always</i>	1,254 (28.6)	56 (35.4)	9 (34.6)		
<i>Not always</i>	3,132 (71.4)	102 (64.6)	17 (65.4)		

<b>Vaginal or anal sex with regular female partner<sup>d</sup></b>				NA	0.903
<i>Yes</i>	NA	223 (96.1)	361 (96.8)		
<i>No</i>	NA	4 (1.7)	5 (1.3)		
<i>No information</i>	NA	5 (2.2)	7 (1.9)		
<b>Condom use with regular female partners in the past 12 months<sup>e*</sup></b>				NA	0.551
<i>Always</i>	NA	42 (18.8)	61 (16.9)		
<i>Not always</i>	NA	181 (81.2)	300 (83.1)		
<b>Casual sexual partner</b>				NA	<0.001
<i>No casual partner</i>	806 (6.3)	0	0		
<i>Casual male partner(s)</i>	11,969 (93.5)	112 (13.9)	0		
<i>Casual female partner(s)</i>	NA	0	19 (2.3)		
<i>Casual female and male partner(s)</i>	NA	692 (86.1)	820 (97.7)		
<i>No information</i>	20 (0.2)	0	0		
<b>Anal sexual practice with casual male partners</b>				<0.001	<0.001
<i>Receptive only</i>	1,262 (9.9)	45 (5.6)	64 (7.6)		
<i>Insertive only</i>	1,344 (10.5)	116 (14.4)	119 (14.2)		
<i>Receptive and insertive</i>	7,835 (61.2)	524 (65.2)	407 (48.5)		
<i>No anal sex</i>	1,692 (13.2)	108 (13.4)	210 (25.0)		
<i>No information</i>	662 (5.2)	11 (1.4)	39 (4.6)		
<b>Condom use with casual male partners in the past 12 months for receptive anal sex<sup>f*</sup></b>				0.004	0.004
<i>Always</i>	4,207 (46.2)	256 (45.0)	254 (53.9)		
<i>Not always</i>	4,890 (53.8)	313 (55.0)	217 (46.1)		
<b>Condom use with casual male partners in the past 12 months for insertive anal sex<sup>g*</sup></b>				0.003	0.001
<i>Always</i>	4,276 (46.6)	275 (43.0)	278 (52.9)		
<i>Not always</i>	4,903 (53.4)	365 (57.0)	248 (47.1)		
<b>Vaginal or anal sex with casual female partner</b>				-	<0.001
<i>Yes</i>	NA	658 (81.8)	799 (95.2)		
<i>No</i>	NA	19 (2.4)	24 (2.9)		
<i>No information</i>	NA	127 (15.8)	16 (1.9)		
<b>Condom use with casual female partners in the past 12 months<sup>h*</sup></b>				-	<0.001
<i>Always</i>	NA	257 (39.1)	195 (24.4)		
<i>Not always</i>	NA	401 (60.9)	604 (75.6)		

Note. NA: Not applicable; IQR: Interquartile range; MSM: men who have sex with men; MSMO: men who have sex with men only; MSMW-W: men who have sex with men and women and had more female than male sexual partner in the past 12 months; MSMW-M: men who have sex with men and women and had more male than female sexual partner in the past 12 months; <sup>a</sup>Only including MSM with regular male partners or regular male and female partners; <sup>b</sup>Only including MSM that referred receptive only or receptive and insertive anal sex with regular male partners; <sup>c</sup>Only including MSM with regular female partners or regular male and female partners; <sup>d</sup>Only including MSM that referred vaginal or anal sex with regular female partner; <sup>e</sup>Only including MSM that referred receptive only or receptive and insertive anal sex with casual male partners; <sup>f</sup>Only including MSM that referred insertive only or receptive and insertive anal sex with casual male partners, <sup>g</sup>Only including MSM that referred vaginal or anal sex with casual female partners; <sup>h</sup>Not always' was defined as men who sometimes, usually or never used a condom with their sexual partners in the past 12 months (with female partners for vaginal and/or anal sex, with male partners for anal sex).

**Table S2** Temporal trend of the sexual practices among men who have sex with men only attending a sexual health centre in Melbourne, 2011-2018.

	2011		2012		2013		2014		2015		2016		2017		2018		P <sub>trend</sub>
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	
<b>Number of sexual partners in the past 12 months</b>																	0.002
<5	515	49.2	598	46.6	645	45.4	626	43.7	686	41.4	802	42.8	859	44.3	934	43.6	-
≥5	532	50.8	684	53.4	777	54.6	807	56.3	972	58.6	1070	57.2	1079	55.7	1209	56.4	-
<b>Condom use with regular male partners in the past 12 months*</b>																	<0.001
<i>Always</i>	134	30.8	164	31.2	160	30.0	142	26.3	167	27.6	201	28.5	139	19.4	165	21.6	-
<i>Not always</i>	301	69.2	362	68.8	373	70.0	398	73.7	437	72.4	504	71.5	576	80.6	598	78.4	-
<b>Anal sexual practice with casual male partners</b>																	
<i>Receptive only</i>	74	7.5	109	9.1	109	8.1	140	10.3	151	9.5	196	11.0	218	11.8	265	13.0	<0.001
<i>Insertive only</i>	98	10.0	133	11.0	153	11.4	150	11.1	178	11.3	205	11.5	194	10.5	233	11.4	0.580
<i>Receptive and insertive</i>	634	64.5	750	62.3	847	63.3	877	64.6	1050	66.4	1177	66.2	1207	65.2	1293	63.4	0.396
<i>No anal sex</i>	177	18.0	212	17.6	229	17.1	190	14.0	203	12.8	201	11.3	233	12.6	247	12.1	<0.001
<b>Condom use with casual male partners in the past 12 months for receptive anal sex*</b>																	<0.001
<i>Always</i>	381	53.8	480	55.9	523	54.7	522	51.3	576	48.0	596	43.4	557	39.1	572	36.7	-
<i>Not always</i>	327	46.2	379	44.1	433	45.3	495	48.7	625	52.0	777	56.6	868	60.9	986	63.3	-
<b>Condom use with casual male partners in the past 12 months for insertive anal sex*</b>																	<0.001
<i>Always</i>	397	54.2	489	55.4	531	53.1	526	51.2	607	49.4	620	44.9	559	39.9	547	35.8	-
<i>Not always</i>	335	45.8	394	44.6	469	46.9	501	48.8	621	50.6	762	55.1	842	60.1	979	64.2	-

\* 'Not always' was defined as men who sometimes, usually or never used a condom with their sexual partners in the past 12 months (with female partners for vaginal or anal sex, with male partners for anal sex).

**Table S3** Temporal trend of the sexual practices among men who have sex with men and women attending a sexual health centre in Melbourne, 2011-2018.

	2011		2012		2013		2014		2015		2016		2017		2018		2011-18
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	P <sub>trend</sub>
<b>Number of sexual partners past 12 months</b>																	0.014
<5	62	36.9	66	36.7	95	39.4	82	34.9	94	36.4	90	31.5	94	32.9	97	29.8	-
≥5	106	63.1	114	63.3	146	60.6	153	65.1	164	63.6	196	68.5	192	67.1	228	70.2	-
<b>Number of male sexual partners past 12 months</b>																	0.106
<5	122	72.6	129	71.7	172	71.4	167	71.1	195	75.6	205	71.7	202	70.6	212	65.2	-
≥5	46	27.4	51	28.3	69	28.6	68	28.9	63	24.4	81	28.3	84	29.4	113	34.8	-
<b>Number of female sexual partners past 12 months</b>																	0.039
<5	129	76.8	133	73.9	185	76.8	179	76.2	185	71.7	204	71.3	206	72.0	229	70.5	-
≥5	39	23.2	47	26.1	56	23.2	56	23.8	73	28.3	82	28.7	80	28.0	96	29.5	-
<b>Condom use with regular male partners in the past 12 months*</b>																	0.435
<i>Always</i>	11	45.8	5	21.7	13	39.4	13	39.4	9	37.5	9	29.0	10	26.3	14	35.9	-
<i>Not always</i>	13	54.2	18	78.3	20	60.6	20	60.6	15	62.5	22	71.0	28	73.7	25	64.1	-
<b>Anal sexual practice with casual male partners</b>																	
<i>Receptive only</i>	6	3.8	11	6.3	15	6.6	13	5.7	17	7.0	26	9.4	16	5.8	27	8.7	0.068
<i>Insertive only</i>	19	11.9	25	14.4	32	14.1	27	11.8	41	16.8	43	15.5	43	15.6	52	16.8	0.107
<i>Receptive and insertive</i>	86	54.1	96	55.2	128	56.4	136	59.4	132	54.1	149	53.8	151	54.7	182	58.9	0.670
<i>No anal sex</i>	48	30.2	42	24.1	52	22.9	53	23.1	54	22.1	59	21.3	66	23.9	48	15.5	0.003
<b>Condom use with casual male partners in the past 12 months for receptive anal sex*</b>																	0.011
<i>Always</i>	54	58.7	54	50.5	74	51.7	77	51.7	81	54.4	90	51.4	79	47.3	88	42.1	-
<i>Not always</i>	38	41.3	53	49.5	69	48.3	72	48.3	68	45.6	85	48.6	88	52.7	121	57.9	-
<b>Condom use with casual male partners in the past 12 months for insertive anal sex*</b>																	0.087
<i>Always</i>	52	49.5	60	49.6	79	49.4	76	46.6	101	58.4	100	52.1	83	42.8	98	41.9	-
<i>Not always</i>	53	50.5	61	50.4	81	50.6	87	53.4	72	41.6	92	47.9	111	57.2	136	58.1	-
<b>Condom use with regular female partners in the past 12 months*</b>																	0.837
<i>Always</i>	16	22.5	16	22.2	8	10.0	10	13.2	17	18.9	22	18.2	19	18.6	24	20.5	-
<i>Not always</i>	55	77.5	56	77.8	72	90.0	66	86.8	73	81.1	99	81.8	83	81.4	93	79.5	-
<b>Condom use with casual female partners in the past 12 months*</b>																	0.056

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<i>Always</i>	46	34.6	54	36.2	74	35.2	65	32.2	74	33.6	82	32.9	73	29.6	80	29.0	-
<i>Not always</i>	87	65.4	95	63.8	136	64.8	137	67.8	146	66.4	167	67.1	174	70.4	196	71.0	-

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\* 'Not always' was defined as men who sometimes, usually or never used a condom with their sexual partners in the past 12 months (with female partners for vaginal or anal sex, with male partners for anal sex).

**Table S4** Temporal trend of the positivity for sexually transmitted infections and HIV among men who have sex with men only attending a sexual health centre in Melbourne, 2011-2018.

	2011	2012	2013	2014	2015	2016	2017	2018	2011-2014	2015-2018	2011-2018
	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	P <sub>trend</sub>	P <sub>trend</sub>	P <sub>trend</sub>
<b>Gonorrhoea</b>											
<i>Oropharyngeal</i>	18/973 (1.8)	28/1,164 (2.4)	43/1,307 (3.3)	42/1,340 (3.1)	122/1,539 (7.9)	130/1,709 (7.6)	154/1,803 (8.5)	145/1,975 (7.3)	0.037	0.755	NA
<i>Urethral*</i>	38/961 (4.0)	36/1,155 (3.1)	47/1,291 (3.6)	40/1,325 (3.0)	56/1,528 (3.7)	55/1,691 (3.3)	63/1,782 (3.5)	55/1,966 (2.8)	0.364	0.215	NA
<i>Anorectal</i>	25/922 (2.7)	42/1,082 (3.9)	70/1,209 (5.8)	71/1,260 (5.6)	128/1,431 (8.9)	115/1,591 (7.2)	132/1,686 (7.8)	162/1,899 (8.5)	0.001	0.954	NA
<i>Any anatomical site†</i>	66/986 (6.7)	81/1,178 (6.9)	122/1,324 (9.2)	130/1,349 (9.6)	215/1,552 (13.9)	220/1,738 (12.7)	241/1,826 (13.2)	246/1,998 (12.3)	0.002	0.261	NA
<b>Chlamydia</b>											
<i>Urethral</i>	30/961 (3.1)	43/1,155 (3.7)	48/1,291 (3.7)	38/1,325 (2.9)	68/1,528 (4.5)	64/1,691 (3.8)	51/1,782 (2.9)	68/1,966 (3.5)	0.652	0.067	NA
<i>Anorectal</i>	63/922 (6.8)	80/1,081 (7.4)	108/1,210 (8.9)	97/1,254 (7.7)	126/1,412 (8.9)	164/1,589 (10.3)	162/1,681 (9.6)	189/1,894 (10.0)	0.282	0.489	NA
<i>Any anatomical site†</i>	86/989 (8.7)	114/1,178 (9.7)	142/1,325 (10.7)	128/1,348 (9.5)	178/1,542 (11.5)	199/1,721 (11.6)	196/1,806 (10.9)	229/1,982 (11.6)	0.436	0.869	NA
<b>Syphilis</b>	43/778 (5.5)	79/1,129 (7.0)	73/1,290 (5.7)	80/1,313 (6.1)	103/1,517 (6.8)	130/1,671 (7.8)	137/1,702 (8.0)	152/1,917 (7.9)	-	-	0.012
<b>HIV (new diagnosis)‡</b>	22/900 (2.4)	36/1,092 (3.3)	22/1,250 (1.8)	35/1,269 (2.8)	29/1,481 (2.0)	35/1,608 (2.2)	38/1,647 (2.3)	45/1,855 (2.4)	-	-	0.488

Note. *n* represents de number of MSM with a positive result and *N* the number of MSM tested. NA: not applicable; MSM: men who have sex with men;

\*Before 2015, urethral gonorrhoea testing was only performed among symptomatic MSM with urethral symptoms or self-reported as contact of infection. The number of people tested corresponds to the number of people tested for urethral chlamydia; † Any anatomical site for gonorrhoea includes urethral, anorectal and oropharyngeal; while any site for chlamydia includes urethral and anorectal; ‡ Only including HIV cases diagnosed on the day of the first visit.

**Table S5** Temporal trend of the positivity for sexually transmitted infections and HIV among men who have sex with men and women attending a sexual health centre in Melbourne, 2011-2018.

	2011	2012	2013	2014	2015	2016	2017	2018	2011-2014	2015-2018	2011-2018
	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	n/N (%)	P <sub>trend</sub>	P <sub>trend</sub>	P <sub>trend</sub>
<b>Gonorrhoea</b>											
<i>Oropharyngeal</i>	1/150 (0.7)	2/154 (1.3)	7/209 (3.3)	3/209 (1.4)	14/220 (6.4)	12/238 (5.0)	17/246 (6.9)	12/285 (4.2)	0.387	0.448	NA
<i>Urethral</i> *	3/163 (1.8)	5/172 (2.9)	9/230 (3.8)	6/219 (2.7)	7/247 (2.8)	10/271 (3.7)	7/275 (2.5)	5/308 (1.6)	0.539	0.241	NA
<i>Anorectal</i>	4/128 (3.1)	5/122 (4.1)	4/172 (2.3)	4/172 (2.3)	6/173 (3.5)	14/191 (7.3)	12/207 (5.8)	9/239 (3.8)	0.492	0.784	NA
<i>Any anatomical site</i> †	7/153 (4.6)	9/160 (5.7)	15/225 (6.8)	13/218 (6.1)	20/232 (8.7)	27/267 (10.3)	27/293 (9.6)	22/330 (7.1)	0.530	0.304	NA
<b>Chlamydia</b>											
<i>Urethral</i> *	4/163 (2.5)	11/172 (6.4)	12/230 (5.2)	5/219 (2.3)	10/247 (4.0)	12/271 (4.4)	6/275 (2.2)	13/308 (4.2)	0.667	0.778	NA
<i>Anorectal</i>	10/128 (7.8)	9/122 (7.4)	6/173 (3.5)	4/172 (2.3)	10/173 (5.8)	11/191 (5.8)	14/206 (6.8)	19/239 (7.9)	0.010	0.320	NA
<i>Any anatomical site</i> †	14/165 (8.5)	15/173 (8.7)	17/233 (7.3)	9/227 (4.0)	19/249 (7.6)	21/273 (7.7)	17/277 (6.1)	29/310 (9.4)	0.057	0.627	NA
<b>Syphilis</b>	1/112 (0.9)	4/166 (2.4)	6/223 (2.7)	13/211 (6.2)	7/238 (2.9)	19/259 (7.3)	12/265 (4.5)	19/299 (6.4)	-	-	0.004
<b>HIV (new diagnosis)</b> ‡	1/140 (0.7)	3/166 (1.8)	1/222 (0.5)	1/205 (0.5)	2/237 (0.8)	0/252 (0.0)	1/258 (0.4)	1/294 (0.3)	-	-	0.127

Note. *n* represents de number of MSM with a positive result and *N* the number of MSM tested; NA: not applicable; MSM: men who have sex with men; \*Before 2015, urethral gonorrhoea testing was only performed among symptomatic MSM with urethral symptoms or self-reported as contact of infection. The number of people tested corresponds to the number of people tested for urethral chlamydia; † Any anatomical site for gonorrhoea includes urethral, anorectal and oropharyngeal; while any site for chlamydia includes urethral and anorectal; ‡ Only including HIV cases diagnosed on the day of the first visit.



**Table S6** Positivity for gonorrhoea, chlamydia, syphilis and HIV among men who have sex with men only and men who have sex with men and women attending a sexual health centre in Melbourne, 2011-2018.

	MSMO	MSMW-M	MSMW-W	Comparison across three groups	Comparison between MSMW-M and MSM-W
	n/N (%)	n/N (%)	n/N (%)	P value	P value
<b>Gonorrhoea</b>					
<i>Oropharyngeal</i>	682/11,810 (5.8)	44/756 (5.8)	18/676 (2.7)	0.003	0.003
<i>Urethral</i> <sup>*</sup>	390/11,699 (3.3)	25/771 (3.2)	23/801 (2.9)	0.775	0.669
<i>Rectum</i>	745/11,080 (6.7)	40/682 (5.9)	14/515 (2.7)	0.001	0.009
<i>Any anatomical site</i>	1321/11,951 (11.1)	83/771 (10.8)	45/756 (6.0)	<0.001	0.001
<b>Chlamydia</b>					
<i>Urethral</i>	410/11,699 (3.5)	27/771 (3.5)	37/801 (4.6)	0.257	0.262
<i>Anorectal</i>	989/11,043 (9.0)	56/683 (8.2)	16/514 (3.1)	<0.001	<0.001
<i>Any anatomical site</i> <sup>†</sup>	1272/11,891 (10.7)	74/779 (9.5)	49/812 (6.0)	<0.001	0.010
<b>Syphilis</b>	797/11,317 (7.0)	36/737 (4.9)	25/744 (3.4)	<0.001	0.140
<b>HIV (new diagnosis)</b> <sup>‡</sup>	262/11,102 (2.4)	7/738 (0.9)	3/749 (0.4)	<0.001	0.196
<b>HIV (previous positive)</b>	316/12,795 (2.5)	6/804 (0.7)	1/839 (0.1)	<0.001	0.051

Note. *n* represents the number of MSM with a positive result and *N* the number of MSM tested. MSM: men who have sex with men; <sup>\*</sup>Before 2015, urethral gonorrhoea testing was only performed among symptomatic MSM with urethral symptoms or self-reported as contact of infection. The number of people tested corresponds to the number of people tested for urethral chlamydia; <sup>†</sup> Any anatomical site for gonorrhoea includes urethral, anorectal and oropharyngeal; while any site for chlamydia includes urethral and anorectal; <sup>‡</sup> Only including HIV cases diagnosed on the day of the first visit.