

**Supplementary Material**

**Outness and its correlates among gay and bisexual men attending university in China: a cross-sectional study**

*Yuqing Hu<sup>A</sup>, Song Fan<sup>B</sup>, Peiyang Li<sup>C</sup>, Hongbo Jiang<sup>D</sup>, Yinguang Fan<sup>E</sup>, Tanwei Yuan<sup>A</sup>, Xinyi Zhou<sup>A</sup>, Yanxiao Gao<sup>A</sup>, Leiwen Fu<sup>A</sup>, Yuewei Zhan<sup>A</sup>, Huicui Meng<sup>A</sup>, Yawen Jiang<sup>A</sup>, Jinqiu Yuan<sup>F</sup>, Xiaojun Meng<sup>G,\*</sup>, and Huachun Zou<sup>A,H,\*</sup>*

<sup>A</sup>School of Public Health (Shenzhen), Sun Yat-sen University, Shenzhen, China.

<sup>B</sup>School of Public Health, Southwest Medical University, Luzhou, China.

<sup>C</sup>School of Public Health, Sun Yat-sen University, Guangzhou, China.

<sup>D</sup>School of Public Health, Guangdong Pharmaceutical University, Guangzhou, China.

<sup>E</sup>School of Public Health, Anhui Medical University, Hefei, China.

<sup>F</sup>Big Data Center, The Seventh Affiliated Hospital, Sun Yat-sen University, Shenzhen, Guangdong, China.

<sup>G</sup>Wuxi Municipal Center for Disease Control and Prevention, Wuxi, China.

<sup>H</sup>Kirby Institute, University of New South Wales, Sydney, NSW, Australia.

\*Correspondence to: Huachun Zou 74 Zhongshan 2nd Road, Yuexiu District, Guangzhou, Guangdong 510085, China Email: zouhuachun@mail.sysu.edu.cn Xiaojun Meng 499 Jincheng Road, Wuxi, Jiangsu 214023, China Email: mengxiaojunwx@163.com

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**Table S1. Correlates of outness to parents among gay and bisexual men attending university in China (N=400)**

<b>Variables</b>	GBM who did not disclose (N=363)	GBM who disclosed (N=37)	Univariable UOR (95% CI)	Multivariable AOR (95% CI)
<b>Socio-demographic characteristics</b>				
Age (years old)				
≤20	97 (26.7%)	8 (21.6%)	1.00	
>20	266 (73.3%)	29 (78.4%)	1.32 (0.58, 2.99)	
Degree				
Undergraduate	290 (79.9%)	32 (86.5%)	0.62 (0.23, 1.65)	
Technical diploma	73 (20.1%)	5 (13.5%)	1.00	
Major				
History	93 (25.6%)	7 (18.9%)	1.00	
Science/Medical	200 (55.1%)	24 (64.9%)	0.88 (0.28, 2.73)	
Economy/management/art	70 (19.3%)	6 (16.2%)	1.40 (0.55, 3.57)	
Grade				
Freshman	55 (15.2%)	8 (21.6%)	1.00	
Sophomore	126 (34.7%)	7 (18.9%)	1.19 (0.39, 3.66)	
Junior	133 (36.6%)	16 (43.2%)	0.45 (0.15, 1.42)	
Senior	49 (13.5%)	6 (16.2%)	0.98 (0.36, 2.65)	
Student leaders				
Yes	166 (45.7%)	18 (48.6%)	1.12 (0.57, 2.21)	
No	197 (54.3%)	19 (51.4%)	1.00	
Academic performance				
Above the average	296 (81.8%)	11 (29.7%)	1.00	
General	66 (18.2%)	26 (70.3%)	1.90 (0.89, 4.03)	
Student loans				
Yes	39 (10.7%)	4 (10.8%)	1.01 (0.34, 2.99)	
No	324 (89.3%)	33 (89.2%)	1.00	
Blood donation				
Yes	77 (21.2%)	12 (32.4%)	1.78 (0.86, 3.71)	
No	286 (78.8%)	25 (67.6%)	1.00	
CES-D score				
<20	277 (76.3%)	29 (78.4%)	1.00	
≥20	86 (23.7%)	8 (21.6%)	0.89 (0.39, 2.02)	
Sexual orientation				
Homosexual	323 (89.0%)	36 (97.3%)	1.00	
Bisexual	40 (11.0%)	1 (2.7%)	0.22 (0.30, 1.68)	
<b>Sexual behaviors</b>				
Age of first anal sex(years old)				
≤16	13 (3.6%)	1 (2.7%)	1.00	
>16	350 (96.4%)	36 (97.3%)	1.34 (0.17, 10.52)	

Number of anal sex partners(P3M)				
≤1	214 (59.0%)	23 (62.2%)	1.00	
>1	149 (41.0%)	14 (37.8%)	0.87 (0.44, 1.75)	
Unprotected anal sex(P3M)				
Yes	187 (51.5%)	20 (54.1%)	1.11 (0.56, 2.18)	
No	176 (48.5%)	17 (45.9%)	1.00	
Ever had sex with a female				
Yes	12 (3.3%)	0 (0.0%)	–	
No	351 (96.7%)	37 (100.0%)	–	
Group sex (P3M)				
Yes	73 (20.1%)	1 (2.7%)	0.11 (0.02, 0.82)*	0.11 (0.01, 0.83)**
No	290 (79.9%)	36 (97.3%)	1.00	1.00
Sex with alcohol(P12M)				
Yes	72 (19.8%)	9 (24.3%)	1.30 (0.59, 2.87)	
No	291 (80.2%)	28 (75.7%)	1.00	
Sex with drug(P12M)				
Yes	112 (30.9%)	11 (29.7%)	0.95 (0.45, 1.99)	
No	251 (69.1%)	26 (70.3%)	1.00	
Coerced sex in lifetime				
Yes	18 (5.0%)	0 (0.0%)	–	
No	345 (95.0%)	37 (100.0%)	–	
Commercial sex in lifetime				
Yes	22 (6.1%)	2 (5.4%)	0.89 (0.20, 3.93)	
No	341 (93.9%)	35 (94.6%)	1.00	
HIV testing history				
Yes	325 (89.5%)	36 (97.3%)	4.21 (0.56, 31.58)	
No	38 (10.5%)	1 (2.7%)	1.00	
<b>STI infections</b>				
HIV				
Positive	8 (2.2%)	0 (0.0%)	–	
Negative	355 (97.8%)	37 (100.0%)	–	
HPV				
Positive	138 (38.0%)	16 (43.2%)	1.24 (0.63, 2.46)	
Negative	225 (62.0%)	21 (56.8%)	1.00	
HBV				
Positive	17 (4.7%)	1 (2.7%)	0.57 (0.73, 4.37)	
Negative	346 (95.3%)	36 (97.3%)	1.00	
Other self-reported STIs				
Yes	63 (17.4%)	7 (18.9%)	1.11 (0.47, 2.64)	
No	300 (82.6%)	30 (81.1%)	1.00	

**Table S2. Correlates of outness to friends&classmates among gay and bisexual men attending university in China (N=400)**

<b>Variables</b>	GBM who did not disclose (N=158)	GBM who disclosed (N=242)	Univariable UOR (95% CI)	Multivariable AOR (95% CI)
<b>Socio-demographic characteristics</b>				
Age (years old)				
≤20	40 (25.3%)	65 (26.9%)	1.00	
>20	118 (74.7%)	177 (73.1%)	0.92 (0.58, 1.46)	
Degree				
Undergraduate	128 (81.0%)	194 (80.2%)	1.06 (0.64, 1.75)	
Technical diploma	30 (19.0%)	48 (19.8%)	1.00	
Major				
History	33 (20.9%)	67 (27.7%)	1.00	
Science/Medical	94 (59.5%)	130 (53.7%)	1.42 (0.76, 2.64)	
Economy/management/art	31 (19.6%)	45 (18.6%)	0.95 (0.56, 1.62)	
Grade				
Freshman	25 (15.8%)	38 (15.7%)	1.00	
Sophomore	57 (36.1%)	76 (31.4%)	0.81 (0.38, 1.71)	
Junior	57 (36.1%)	92 (38.0%)	0.69 (0.36, 1.32)	
Senior	19 (12.0%)	36 (14.9%)	0.84 (0.44, 1.61)	
Student leaders				
Yes	55 (34.8%)	129 (53.3%)	2.14 (1.41, 3.23)*	2.08 (1.35, 3.23)**
No	103 (65.2%)	113 (46.7%)	1.00	1.00
Academic performance				
Above the average	120 (76.4%)	202 (83.5%)	1.00	
General	37 (23.6%)	40 (16.5%)	0.64 (0.39, 1.06)	
Student loans				
Yes	15 (9.5%)	28 (11.6%)	1.25 (0.64, 2.42)	
No	143 (90.5%)	214 (88.4%)	1.00	
Blood donation				
Yes	23 (14.6%)	66 (27.3%)	2.20 (1.30, 3.72)*	1.85 (1.06, 3.23)**
No	135 (85.4%)	176 (72.7%)	1.00	1.00
CES-D score				
<20	124 (78.5%)	182 (75.2%)	1.00	
≥20	34 (21.5%)	60 (24.8%)	1.20 (0.75, 1.94)	
Sexual orientation				
Homosexual	135 (85.4%)	224 (92.6%)	1.00	1.00
Bisexual	23 (14.6%)	18 (7.4%)	0.47 (0.25, 0.91)*	0.76 (0.35, 1.65)
<b>Sexual behaviors</b>				
Age of first anal sex(years old)				
≤16	6 (3.8%)	8 (3.3%)	1.00	
>16	152 (96.2%)	234 (96.7%)	1.16 (0.39, 3.39)	

Number of anal sex partners(P3M)				
≤1	91 (57.6%)	146 (60.3%)	1.00	
>1	67 (42.4%)	96 (39.7%)	0.89 (0.59, 1.34)	
Unprotected anal sex(P3M)				
Yes	79 (50.0%)	128 (52.9%)	1.12 (0.75, 1.68)	
No	70 (50.0%)	114 (47.1%)	1.00	
Ever had sex with a female				
Yes	10 (6.3%)	2 (0.8%)	0.12 (0.03, 0.57)*	0.13 (0.03, 0.60) **
No	148 (93.7%)	240 (99.2%)	1.00	1.00
Group sex (P3M)				
Yes	41 (25.9%)	33 (13.6%)	0.45 (0.27, 0.75)*	0.41 (0.24, 0.71) **
No	117 (74.1%)	209 (86.4%)	1.00	1.00
Sex with alcohol(P12M)				
Yes	28 (17.7%)	53 (21.9%)	1.30 (0.78, 2.17)	
No	130 (82.3%)	189 (78.1%)	1.00	
Sex with drug(P12M)				
Yes	46 (29.1%)	77 (31.8%)	1.14 (0.73, 1.76)	
No	112 (70.9%)	165 (68.2%)	1.00	
Coerced sex in lifetime				
Yes	5 (3.2%)	13 (5.4%)	1.74 (0.61, 4.97)	
No	153 (96.8%)	229 (94.6%)	1.00	
Commercial sex in lifetime				
Yes	6 (3.8%)	18 (7.4%)	2.04 (0.79, 5.25)	
No	152 (96.2%)	224 (92.6%)	1.00	
HIV testing history				
Yes	143 (90.5%)	218 (90.1%)	0.95 (0.48, 1.88)	
No	15 (9.5%)	24 (9.9%)	1.00	
<b>STI infections</b>				
HIV				
Positive	5 (3.2%)	3 (1.2%)	0.38 (0.09, 1.63)	
Negative	153 (96.8%)	239 (98.8%)	1.00	
HPV				
Positive	66 (41.8%)	88 (36.4%)	0.80 (0.53, 1.20)	
Negative	92 (58.2%)	154 (63.6%)	1.00	
HBV				
Positive	8 (5.1%)	10 (4.1%)	0.81 (0.31, 2.09)	
Negative	150 (94.9%)	232 (95.9%)	1.00	
Other self-reported STIs				
Yes	26 (16.5%)	44 (18.2%)	1.13 (0.66, 1.92)	
No	132 (83.5%)	198 (81.8%)	1.00	

**Table S3. Correlates of outness to health care providers among gay and bisexual men attending university in China (N=400)**

<b>Variables</b>	GBM who did not disclose (N=346)	GBM who disclosed (N=54)	Univariable UOR (95% CI)	Multivariable AOR (95% CI)
<b>Socio-demographic characteristics</b>				
Age (years old)				
≤20	92 (26.6%)	13 (26.9%)	1.00	
>20	254 (74.7%)	41 (75.9%)	1.14 (0.59, 2.23)	
Degree				
Undergraduate	274 (79.2%)	48 (88.9%)	2.10 (0.86, 5)	
Technical diploma	72 (20.8%)	6 (11.1%)	1.00	
Major				
History	80 (23.1%)	20 (37.0%)	1.00	
Science/Medical	200 (57.8%)	24 (44.4%)	0.48 (0.25, 1.33)	
Economy/management/art	66 (19.1%)	10 (18.5%)	0.79 (0.35, 1.74)	
Grade				
Freshman	54 (15.6%)	9 (16.7%)	1.00	
Sophomore	121 (35.0%)	12 (22.2%)	0.60 (0.23, 1.57)	
Junior	128 (37.0%)	21 (38.9%)	0.33 (1.38, 0.80)	
Senior	43 (12.4%)	12 (22.2%)	0.57 (0.25, 1.25)	
Student leaders				
Yes	152 (43.9%)	32 (59.3%)	1.86 (1.04, 3.33)*	1.92 (1.06, 3.45)**
No	194 (56.1%)	22 (40.7%)	1.00	1.00
Academic performance				
Above the average	120 (76.4%)	202 (83.5%)	1.00	
General	37 (23.6%)	40 (16.5%)	0.94 (0.45, 1.97)	
Student loans				
Yes	15 (9.5%)	28 (11.6%)	0.83 (0.31, 2.20)	
No	143 (90.5%)	214 (88.4%)	1.00	
Blood donation				
Yes	23 (14.6%)	66 (27.3%)	1.41 (0.74, 2.70)*	
No	135 (85.4%)	176 (72.7%)	1.00	
CES-D score				
<20	124 (78.5%)	182 (75.2%)	1.00	
≥20	34 (21.5%)	60 (24.8%)	1.16 (0.60, 2.25)	
Sexual orientation				
Homosexual	135 (85.4%)	224 (92.6%)	1.00	1.00
Bisexual	23 (14.6%)	18 (7.4%)	0.14 (0.02, 1.07)*	0.14 (0.02, 1.01)
<b>Sexual behaviors</b>				

Age of first anal sex(years old)			
≤16	13 (3.8%)	1 (1.9%)	1.00
>16	333 (96.2%)	53 (98.1%)	2.07 (0.27, 16.15)
Number of anal sex partners(P3M)			
≤1	209 (60.4%)	28 (51.9%)	1.00
>1	137 (39.6%)	26 (48.1%)	1.42 (0.80, 2.52)
Unprotected anal sex(P3M)			
Yes	179 (51.7%)	28 (51.9%)	1.01 (0.57, 1.78)
No	167 (48.3%)	26 (48.1%)	1.00
Ever had sex with a female			
Yes	12 (3.5%)	0 (0.0%)	–
No	334 (96.5%)	54 (100.0%)	–
Group sex (P3M)			
Yes	68 (19.7%)	6 (11.1%)	0.51 (0.21, 1.24)
No	278 (80.3%)	48 (88.9%)	1.00
Sex with alcohol(P12M)			
Yes	65 (18.8%)	16 (29.6%)	1.82 (0.96, 3.46)
No	281 (81.2%)	38 (70.4%)	1.00
Sex with drug(P12M)			
Yes	105 (30.3%)	18 (33.3%)	1.15 (0.62, 2.11)
No	241 (69.7%)	36 (66.7%)	1.00
Coerced sex in lifetime			
Yes	17 (4.9%)	1 (1.9%)	0.37 (0.48, 2.80)
No	329 (95.1%)	53 (98.1%)	1.00
Commercial sex in lifetime			
Yes	19 (5.5%)	5 (9.3%)	1.76 (0.63, 4.92)
No	327 (94.5%)	49 (90.7%)	1.00
HIV testing history			
Yes	312 (90.2%)	49 (90.7%)	1.07 (0.40, 2.86)
No	34 (9.8%)	5 (9.3%)	1.00
<b>STI infections</b>			
HIV			
Positive	8 (2.3%)	0 (0.0%)	–
Negative	338 (97.7%)	54 (100.0%)	–
HPV			
Positive	139 (40.2%)	15 (27.8%)	0.57 (0.30, 1.08)
Negative	207 (59.8%)	39 (72.2%)	1.00
HBV			
Positive	14 (4.0%)	4 (7.4%)	1.90 (0.60, 5.99)
Negative	332 (96.0%)	50 (92.6%)	1.00
Other self-reported STIs			
Yes	58 (16.8%)	12 (22.2%)	1.42 (0.70, 2.86)
No	288 (83.2%)	42 (77.8%)	1.00