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RESEARCH ARTICLE

Counselling and psychotherapy service use in Chinese sexual minority populations: a nationwide survey

Yuanyuan Wang^{1,2}, Amanda Wilson², Zhishan Hu³, Li Lu⁴, Wengao Li⁵, Ke Peng⁶, Lijuan Wu⁷, Ying Xin⁸, Jack Drescher^{9,10}, Jianjun Ou^{1*} and Runsen Chen^{1*}

Abstract

Background: This study investigated the prevalence and factors associated with counselling and psychotherapy service use among Chinese sexual minority populations.

Methods: A nationwide cross-sectional study was performed using snowball sampling method, which led to the inclusion of 18,193 participants. Participants' sociodemographic background, clinical, and psychological data were gathered. Multivariate logistic regression analysis was performed to explore any associated factors.

Results: There were 2007 participants who had used counselling and psychotherapy service out of the total population. Among those who had used psychotherapy services, 80.2% participants perceived discrimination, 1.1% reported that they had been refused treatment by a counsellor and/or psychotherapist, 1.6% had experienced verbal harassment, and 8.4% reported that their counsellor and/or psychotherapist lacked knowledge and experience in treating sexual minorities. In addition, regression analyses indicated that those who were divorced/ widowed, had religious beliefs, and those who had experienced discrimination, verbal harassment, and rejection for treatment by health professionals all had an increased likelihood of utilising counselling and psychotherapy service.

Conclusions: Service providers and policy makers in China should improve the quality and availability of counselling and psychotherapy services to address the mental health needs of sexual minority populations.

Keywords: Chinese, Sexual minority, Counselling, Psychotherapy, Service use, LGBT

Background

A national report roughly estimates that there are 75 million members of sexual minority communities (e.g. lesbian, gay, bisexual and transgender individuals, [LGBT]) in China [1]. Sexual minority populations are vulnerable to social prejudice, discrimination, violence, and lack of psychological support due to their sexual orientation, gender identity or expression [2, 3]. Compared with

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heterosexual and cisgender populations, sexual minority individuals experience higher rates of psychological distress, depressive and anxiety disorders, suicidality, and substance use disorders (i.e. binge drinking and tobacco smoking) [4]. Furthermore, sexual minority individuals are also more likely to report a lack of mental health support [5]. For example, compared to cisgender, heterosexual participants, transgender and bisexual individuals were 2.4 and 1.8 times more likely to report an unmet need for mental healthcare [6].

Several studies have investigated the prevalence and patterns of utilization of mental health service by sexual minority populations, however most of the studies have

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been conducted in western countries [7–9]. Compared to heterosexuals, sexual minorities, particularly lesbians and gay men, are more likely to consult mental health professionals and to report barriers to accessing services because of their sexual orientation [8, 9]. In terms of dissatisfaction with mental health services, LGBT groups show a significantly higher level of dissatisfaction than the heterosexual population group with 17.6% versus 8% respectively [10]. In both the general population and sexual minority communities, women are more likely to seek help from mental health services than men [6]. However, in regards to the quality of the service, around 21.7% of sexual minority women report being dissatisfied and 7.2% of women from the heterosexual population report being dissatisfied [10]. Additionally, the utilization of mental health services by sexual minority individuals' may be further influenced by experiences of discrimination, low levels of social support, and a systemic hetero-normative healthcare environment [6].

To improve access to mental health care, reduce stigma, and manage physical and mental health comorbidities, China has invested substantially, and has made remarkable progress, in recent mental health reform [11]. However, counselling and psychotherapy services in China could greatly benefit from additional resources. There are currently less than 5000 qualified clinical counsellor/ and psychotherapists in mainland China, compared to more than 200,000 in the United States (US) [12]—a substantial difference, given that the total US population is only one quarter of China's [12]. Compared with well-developed western countries, such as US, China has not established matured education, training, and job implementation procedures in the area of psychiatric service. In addition to having very limited access to counselling and psychotherapy services in China, individuals with psychological distress also have lower levels of self-awareness when it comes to understanding their own mental health status-and low levels of helpseeking—from mental health professionals. In response, the Chinese government and health authorities have made great efforts to alleviate related stigma and educate the public in the past two decades [13-15].

In terms of utilization of mental health services by Chinese sexual minorities, previous studies in Hong Kong indicate that LGBT individuals are more likely to seek help through informal channels, such as family members, friends, or other non-family LGBT community members when they need psychological support instead of a trained professional [16]. For those who have not disclosed their sexual identity to their families, friends and/or do not have a LGBT community network available nearby, social media (e.g. LGBT social networks) is as preferential platforms to express themselves because the environment is more safe, friendly, convenient, and ubiquitous [17]. Compared to heterosexuals, sexual minorities are at a higher risk of mental and physical health problems [18]. In China, very few studies are available exploring their experience with accessing physical and mental health services. In particular, little or no data exists about their help-seeking for counselling and psychotherapy services. Thus, this study aimed to investigate both the prevalence and factors associated with counselling and psychotherapy service utilization among Chinese sexual minority populations.

Methods

Participants and setting

This study was part of a large-scale epidemiologic survey on social attitudes towards LGBT individuals in China, which was undertaken from September to December 2015. Both face-to-face and an online survey were used for data collection. The initial recruitment processes occurred through LGBT community organizations, and the participants were approached by staff, with participants being obtained through convenience sampling. In total, 24 community organizations working with sexual and gender minorities, and several social media channels (such as, LGBT social networks, Weibo and Wechat) were involved during the recruitment of participants. No clinics were approached in an attempt to avoid anyone who may currently be in treatment for a serious psychiatric disorder. Across the 24 different community organizations, the staff in the LGBT community organizations distributed the questionnaire by providing an online link or they provided a hard copy of the questionnaire to the participants. After the initial recruitment, a snowball sampling method was used to recruit additional participants. Although multiple sampling strategies were applied (convenience, snowball, and respondent-driven sampling), the majority of participants were recruited through the online advertisement.

Each participant could only answer the questionnaire in person or online once to avoid duplicate responses from the same individual. The current study (secondary analysis) received approval by the Human Research and Ethics Committee of Second Xiangya Hospital, Central South University in China. The informed consent was provided in written format before participating in the survey. For online data collection, participants were required to confirm that they had read the information sheet, had time to ask questions and provide informed consent before being directed to the survey questions. Participants were ensured that their participation was completely voluntary and that their information would be kept confidential.

Measures

Sociodemographic background (9 items), clinical items (2 items), and psychological (6 items) data were gathered

from the participants. The researchers collected sociodemographic information such as, age, residency, marital status, educational background, employment status, and yearly income level using multiple choice questions. Participant's HIV status and physical disability were assessed using binary questions. We also assessed participant's psychological status by using six questions: 1) 'Have you ever experienced psychological distress because of your sexual or gender minority status?', 2) 'Have you ever disclosed your sexual or gender minority identity to others?', 3) 'Have you ever experienced discrimination because of your sexual or gender minority status?', 'Have you ever been 4) refused treatment, 5) verbally attacked, or 6) sexually harassed by health professionals because of your sexual or gender minority status?' These questions were assessed using a binary format of yes or no.

Participant's counselling and psychotherapy experiences were evaluated by binary-response questions. All the questions used in the current study were based on previous findings and designed using expert consultation from the Beijing LGBT Center [19, 20]. First, participants were asked whether they had any previous counselling and psychotherapy experience. Those who answered yes were further assessed by five questions: 'Have you ever experienced 1) verbal harassment, 2) sexual harassment, 3) any kind of discrimination from a counsellor and/or psychotherapist?' 4) 'Whether a counsellor and/or psychotherapist had refused to treat you?', and 5) 'Whether your counsellor and/or psychotherapist had sufficient knowledge or experience treating sexual minority populations?'

Statistical analysis

Data was analysed using the Statistical Package for the Social Sciences version 16 (SPSS Inc., Chicago, Illinois). Normal distribution assumption was examined. First a comparison was performed using chi-square tests between the counselling and psychotherapy service use and non-use groups in terms of sociodemographic, clinical and psychological variables. Second, bivariate and multivariate logistic regression analysis with the 'Enter' method was used to calculate the crude and adjusted odds ratios (OR) and related 95% confidential interval (CI). In the multivariate analysis, service utilization was the dependent variable, while variables that significantly differed between the 2 groups in the univariate analyses were entered as independent variables. Multicollinearity was tested using Spearman's Rho correlations. For all the statistical tests, the threshold of significance was set at 0.05 (two-tailed).

Results

Sample characteristics

Participants were recruited from 31 provinces in mainland China. In total 18,193 participants provided valid responses and were therefore included in the analysis. Specifically, 2066 (11.4%) participants identified as lesbian, 9491 (52.2%) as gay men, 3441 (18.9%) as bisexual, and 3195 (17.6%) as transgender. The mean age of the sample was 22.87 years (SD = 5.52). The majority of the participants were Han ethnicity, with 92.5% lesbian, 92.9% gay, 92.7% bisexual, and 92.2% transgender. Of the 18,193 participants included in the study, most were single (93.6%), living in urban areas (78.7%), welleducated (college/undergraduate and above: 73.2%), were not religious (82.6%), and were currently employed (57.2%). About 85.6% reported a negative HIV test result and 99.1% did not have a physical disability (see Table 1). The HIV status was collected as previous studies indicate that sexual minorities are at a higher risk of HIV infection [21]. However, in this study no significant differences were found for participants based on HIV or Disability status.

There were 2007 (11.0, 95%CI: 10.6-11.5%) participants had used counselling and psychotherapy service. Among those who had used services, 1610 (80.2, 95%CI: 78.5-82.0%) participants had perceived discrimination due to their minority identity, 23 (1.1, 95%CI: 0.7–1.6%) reported that they had been refused treatment by a counsellor and/or psychotherapist, 33 (1.6, 95%CI: 1.1-2.2%) had experienced verbal harassment, and 12 (0.6, 95%CI: 0.3-0.9%) had experienced sexual harassment in counselling and psychotherapy. Meanwhile, 168 (8.4, 95%CI: 7.2-9.6%) participants reported that their counsellor and/or psychotherapist lacked sufficient knowledge and/or experience in treating sexual minorities. Additionally, among the 12,965 individuals (71.3, 95%CI: 70.6–71.9%) who reported psychological distress, 1602 (12.4, 95%CI: 11.8-12.9%) of them sought help from counselling and psychotherapy.

Results indicated that those who were older, living in an urban area, divorced/widowed, who had higher educational background, higher income levels, and those who had religious beliefs were more likely to seek counselling and psychotherapy. Those who had experienced psychological distress or discrimination, who disclosed their sexual minority identity to others, those who had ever been refused treatment, or verbally attacked or sexually harassed by health professionals were more likely to seek help from psychological professionals (see Table 1).

Using the results from the above Chi-Square tests, the 12 variables (6 sociodemographic and 6 psychological factors) that had a significant correlation with counselling and psychotherapy service use were introduced into the logistic regression as independent variables. These independent variables exhibited no significant multicollinearity (for all analyses the Spearman's Rho correlation coefficient was < 0.4, see Table 2). All factors except for

Variables Counselling/psychotherapy Service Use X² Total Yes df P-value No N = 18,193 N = 2007 (11.0%) N = 16,86 (89.0%) Sociodemographic Population Lesbian 2066 (11.4) 257 (12.4) 1809 (87.6) Gay 9491 (52.2) 1051 (11.1) 8440 (88.9) Bisexual 3441 (18.9) 356 (10.3) 3085 (89.7) Transgender 3195 (17.6) 343 (10.7) 2852 (89.3) 6.124 3 0.106 Age (Years) 20 and below 680 (9.6) 7051 (38.8) 6371 (90.4) 21-29 9274 (51.0) 1072 (11.6) 8202 (88.4) 30 and above 1868 (10.3) 255 (13.7) 1613 (86.3) 29.521 2 < 0.001 Residency Urban 14,326 (78.7) 1686 (11.8) 12,640 (88.2) County 3026 (16.6) 254 (8.4) 2772 (91.6) 841 (4.6) 67 (8.0) 774 (92.0) 37.432 < 0.001 Rural 2 **Marital Status** Married 879 (4.8) 99 (11.3) 780 (88.7) Single 17,022 (93.6) 1858 (10.9) 15,164 (89.1) Divorced/widowed 292 (1.6) 50 (17.1) 242 (82.9) 11.232 2 0.003 **Child Rearing** No 17,449 (95.9) 1927 (11.0) 15,522 (89.0) Yes 0.062 0.804 744 (4.1) 80 (10.8) 664 (89.2) 1 Education Primary or below 48 (0.3) 3 (6.3) 45 (93.8) Middle/High school 4840 (26.6) 384 (7.9) 4456 (92.1) College/undergraduate 12,040 (66.2) 1417 (11.8) 10,623 (88.2) Postgraduate 1265 (7.0) 203 (16.0) 1062 (84.0) 87.537 3 < 0.001 Employment No 10,398 (57.2) 1168 (11.2) 9230 (88.8) Yes 7795 (42.8) 839 (10.8) 6956 (89.2) 1.001 1 0.317 Yearly Income (RMB^a)^b Less than 25,000 3149 (89.6) 3516 (35.5) 367 (10.4) 25,001-49,999 2839 (28.7) 314 (11.1) 2525 (88.9) 50,000-99,999 2391 (24.2) 258 (10.8) 2133 (89.2) More than 100,000 1145 (11.6) 24.832 < 0.001 179 (15.6) 966 (84.4) 3 **Religious Beliefs** No 15,036 (82.6) 1578 (10.5) 13,458 (89,5) Yes 3157 (17.4) 429 (13.6) 2728 (86.4) 25.449 < 0.001 1 Clinical **HIV Positive** No 15,581 (85.6) 1707 (11.0) 13,874 (89.0) Yes 325 (1.8) 49 (15.1) 276 (84.9) 0.063 Unknown 2287 (12.6) 251 (11.0) 2036 (89.0) 5.518 2

Table 1 univariate analysis of study variables in sexual minority population (N = 18,193)

Variables		Counselling/psychotherapy Service Use							
	Total N = 18,193	Yes N = 2007 (11.0%)	No N = 16,86 (89.0%)	X ²	df	P-value			
Physical Disability									
No	18,022 (99.1)	1990 (11.0)	16,032 (89.0)						
Yes	171 (0.9)	17 (9.9)	154 (90.1)	0.209	1	0.648			
Psychological									
Psychological Distress									
No	5228 (28.7)	405 (7.7)	4823 (92.3)						
Yes	12,965 (71.3)	1602 (12.4)	11,363 (87.6)	80.659	1	< 0.001			
Disclosure to others									
No	8921 (49.0)	673 (7.5)	8248 (92.5)						
Yes	9272 (51.0)	1334 (14.4)	7938 (85.6)	216.945	1	< 0.001			
Refused by HP									
No	18,077 (99.4)	1979 (10.9)	16,098 (89.1)						
Yes	116 (0.6)	28 (24.1)	88 (75.9)	20.432	1	< 0.001			
Verbal harassment by HP									
No	18,031 (99.1)	1969 (10.9)	16,062 (89.1)						
Yes	162 (0.9)	38 (23.5)	124 (76.5)	25.711	1	< 0.001			
Sexual harassment by HP									
No	18,126 (99.6)	1989 (11.0)	16,137 (89.0)						
Yes	67 (0.4)	18 (26.9)	49 (73.1)	17.178	1	< 0.001			
Discrimination Experience									
No	3219 (17.7)	224 (7.0)	2995 (93.0)						
Yes	14,974 (82.3)	1783 (11.9)	13,191 (88.1)	66.107	1	< 0.001			

Table 1 univariate analysis of study variables in sexual minority population (N = 18,193) (Continued)

LGBT lesbian, gay, bisexual, and transgender; No Number; HIV human immunodeficiency viruses; HP Health Professionals; ^aUS\$1 = RMB7.03; ^b: only in employed, valid N = 9891

Table 2 correlation between included variables

Correlations												
	1	2	3	4	5	6	7	8	9	10	11	12
1.Age	1	053 ^a	197 ^a	.267 ^a	.329 ^a	067 ^a	005	040 ^a	.032 ^a	.024 ^a	.010	248 ^a
2.Residency		1	061ª	241ª	143 ^a	046 ^a	014	074 ^a	.012	.002	.022 ^a	029 ^a
3.Marital Status			1	.009	079 ^a	.014	.006	.071 ^a	025 ^a	011	007	.089 ^a
4.Education				1	.280 ^a	.053 ^a	050 ^a	.017 ^b	023 ^a	015 ^b	016 ^b	.024 ^a
5.Yearly Income (RMB) ^a					1	.009	025 ^b	.013	028 ^a	012	002	036ª
6.Religious Beliefs						1	.017 ^b	009	022ª	020 ^a	027 ^a	.025 ^a
7.Psychological distress							1	.046 ^a	.001	023 ^a	005	112 ^a
8.Disclosure to others								1	.008	.019 ^a	.011	.114ª
9.Refused by HP									1	.161ª	.109 ^a	.037 ^a
10.Verbal harassment by HP										1	.139 ^a	.044 ^a
11.Sexual harassment by HP											1	.028 ^a
12.Discrimination Experience												1

^a Correlation is significant at the 0.01 level (2-tailed). ^b. Correlation is significant at the 0.05 level (2-tailed). a: only in employed, valid N = 9891; HP: Health professional

education level, showed significant association with service use in the bivariate logistic regression analysis (see Table 3 and supplementary materials).

After controlling for the effects of other variables, seven variables remained significant in the multivariate logistic regression. Divorced/widowed individuals (OR = 1.551, 95%CI: 1.051-2.289), and participants who had religious beliefs (OR = 1.362, 95%CI: 1.176-1.577) had a significantly higher likelihood of utilizing counselling and psychotherapy service. Compared to those who had no psychological distress and/or those who had never experienced discrimination or violence in clinical settings, individuals with

previous adverse experience, such as, rejection for treatment by health professionals (OR = 2.136, 95%CI: 1.280– 3.563) and verbal harassment from clinicians (OR = 2.017, 95%CI: 1.271–3.204) had an increased likelihood of using the service. Additionally, individuals who were comfortable disclosing their sexual minority identity to others were more likely to accept counselling and psychotherapy service (OR = 2.078, 95%CI: 1.815–2.379).

Discussion

This is the first study to investigate the prevalence and factors associated with counselling and psychotherapy

Table 3 logistic regression of study variables in sexual minority population (N = 18,193)

	Counselling/psychotherapy service use									
Variables	Crude OR	95% CI	P-value	Adjusted OR	95% CI	P-value				
Sociodemographic										
Age (Years)										
20 and below	Reference	-	-	-	-	-				
21–29	1.225	1.106–1.355	< 0.001	0.977	0.792-1.204	0.825				
30 and above	1.481	1.270–1.728	< 0.001	1.105	0.850-1.436	0.456				
Residency										
Urban	Reference	_	-	_	-	-				
County	0.687	0.598–0.789	< 0.001	0.887	0.737-1.067	0.202				
Rural	0.649	0.503–0.837	0.001	0.885	0.635-1.234	0.471				
Marital Status										
Married	Reference	-	-	-	-	-				
Single	0.965	0.779–1.196	0.747	0.903	0.700-1.166	0.435				
Divorced/widowed	1.628	1.125-2.355	0.010	1.551	1.051-2.289	0.027				
Education										
Primary or below	Reference	-	-	-	-	-				
Middle/High school	1.293	0.400-4.179	0.668							
College/undergraduate	2.001	0.621-6.447	0.245							
Postgraduate	2.867	0.883–9.315	0.080							
Yearly Income (RMB ^a) ^b										
Less than 25,000	Reference	-	-	-	-	-				
25,001-49,999	1.067	0.910-1.252	0.425	1.025	0.868-1.211	0.768				
50,000-99,999	1.038	0.877-1.228	0.666	0.893	0.746-1.069	0.217				
More than 100,000	1.590	1.311-1.928	< 0.001	1.221	0.987-1.512	0.066				
Religious Beliefs (ref: no)	1.341	1.196–1.504	< 0.001	1.362	1.176–1.577	< 0.001				
Psychological										
Psychological Distress (ref: no)	1.679	1.498-1.882	< 0.001	1.842	1.571-2.159	< 0.001				
Disclosure to others (ref: no)	2.060	1.868-2.271	< 0.001	2.078	1.815-2.379	< 0.001				
Refused by HP (ref: no)	2.588	1.687–3.970	< 0.001	2.136	1.280–3.563	0.004				
Verbal harassment by HP (ref: no)	2.500	1.733–3.606	< 0.001	2.017	1.271-3.204	0.003				
Sexual harassment by HP (ref: no)	2.980	1.733–5.126	< 0.001	1.475	0.702-3.096	0.305				
Discrimination Experience (ref: no)	1.807	1.564-2.088	< 0.001	1.645	1.404-1.927	< 0.001				

LGBT lesbian, gay, bisexual, and transgender; *ref* reference; *OR* odd ratio; *CI* Confidential interval; ^aUS\$1 = RMB7.03; ^b: only in employed, valid N = 9891; HP: Health Professionals

service utilization among the Chinese sexual minority populations. Similar to previous study findings among a transgender Chinse population, the findings from this study reported similar rates of uptake for counselling and psychotherapy services [19]. There are several issues regarding the counselling and psychotherapy services in Chinese sexual minorities. First, Chinese sexual minorities have limited access to counselling and psychotherapy services due to severe understaffing, which make it difficult to fulfil their mental health needs [22]. Second, a large proportion of Chinese people are unclear about the purpose and nature of counselling and psychotherapy, while others believe that it is only beneficial to white, middle-class individuals and that a western psychological model is not suitable for Chinese populations to work through their psychological distress [23]. Third, Chinese sexual minorities suffer from higher levels of stigma and discrimination than heterosexual people. Chinese society still has a relatively low acceptance of both sexual minority populations and individuals with mental disorders [13].

Sexual minorities usually share greater concerns over discrimination from health services, such as the inequity around the accessibility of HIV prevention and treatment, as well as, a lack of friendliness from staff providing psychological services [1]. Fourth, mental health service costs can be a financial burden to the individual. After the implementation of China's new National Mental Health Law in 2013 [13], resulted in a number of new treatments now have increased coverage by the National Health Insurance. However, fees for counselling and psychotherapy are still not covered by health insurance, which can make the services unaffordable for many individuals and LGBT individuals can require more counselling and psychotherapy sessions than heterosexual individuals due to the additional level of stigma and discrimination they receive from the general public.

This study found that divorced/widowed individuals were more likely to use counselling and psychotherapy services. This could be partially explained by the uneven distribution of participants in each subtype, only 1.6% of the participants were divorced/widowed and 93.6% of them were single. Compared to single/married sexual minorities, divorced/widowed individuals tended to have more severe psychological distress, poorer psychological adjustment and resilience, which increases the likelihood of service use [24]. In addition, those who have religious beliefs were more likely to utilize counselling and psychotherapy services. Existing evidence has shown there is a positive association between religion and health-promoting behaviours in emerging adults [25]. Researchers, therefore suggest that there should be more emphasis on the role of religion in mental health [26]. This study confirms that religion and mental health continue to remain an important factor in the mental health of LGBT individuals. How this may differ for different religious groups lacks exploration in the Chinese context.

A meta-analysis in 2012 revealed that compared to heterosexual individuals, LGB individuals experienced more victimization, particularly among gay men. The rates for all samples of specific types of victimization ranged from 5% being spat on to 55% experiencing verbal harassment [27]. Our study supports previous evidence that verbal harassment was more commonly experienced than any other form of victimization. In addition, it has been demonstrated that stigma-related victimization persists throughout the life-course for many sexual minorities, and this is associated with poor mental health outcomes (i.e. depressive symptoms) [28, 29]. It is possible that victimization is attributed to an established stressful atmosphere, which consequently generates adverse mental health outcomes [30, 31]. Therefore, people with experiences of victimization are more likely to seek advice from psychological professionals to better appraise and cope with their distress. As there are many different forms of verbal harassment that can result in distress [32], future research should explore how different types of verbal harassment are experienced in the LGBT community.

This study also indicated that perceived discrimination was significantly associated with increased counselling and psychotherapy service utilization. Previous studies showed that the experience of discriminatory events could contribute to poor mental health [6, 27], such as developing Post-Traumatic Stress Disorder (PTSD) [33]. This could be partially explained within the conceptual framework of minority stress in which prejudice, discrimination, and stigma create an unfriendly or even hostile social environment that results in adverse mental health outcomes [30]. However, inconsistent results were also reported. Previous research shows that even though LGBT individuals experience more serious discrimination and report worse mental health outcomes than heterosexuals, discrimination does not significantly account for the disparity or difference in service utilization [5]. These contradictory results could be explained by the difference in research samples (i,e, whether subgroups were explored or lack of large representative samples) and participants' sociocultural background. Caution is recommended for future studies that explore the links between discrimination, adverse mental health outcomes, and counselling and psychotherapy service use.

These results also showed that sexual minorities who disclosed their identity to others were more likely to be accepting of and seek out counselling and psychotherapy. Similarly, findings from previous research also indicated that those who disclosed their identity to healthcare professionals were more likely to receive better treatment [34]. In order to meet the specific medical needs of sexual minorities, research further suggests that appropriate training should be provided to health professionals in order to create a friendly clinical setting that facilitates disclosure [34]. Interventions to improve disclosure would be beneficial for individuals in asking for help from professionals and facilitate the ability to achieve self-satisfaction [35]. This study also suggests that disclosure in general, whether family or friends, improves the utilization of counselling and psychotherapy services. Creating an environment in the Chinese context, which facilitates disclosure should be a point for further research [15, 36].

There are several limitations of this study. First, though the national sample size was large, this was a cross-sectional survey. The direct causal associations between potential factors and counselling and psychotherapy service use are tentative. Longitudinal studies are warranted to further identify causal associations. Secondly, all results are based on self-reported data and could not be confirmed with medical records. While most of the questions were designed based on previous findings and expert consultation, they provide weak psychometric evidence, therefore, recall bias and assessment bias may exist. Third, the average age of the current sample was skewed toward a younger age, which may not represent participants from all age groups. It is possible that the utilization of services varies based on the age distribution. Fourth, the majority of the participants were recruited online. Compared with younger generation, it is possible that older generation in China have less access to smart phones and internet. This could lead to the potential exclusion of the older generation. Also, those from a lower socio-economic class might not be able to afford smartphones and internet. Therefore this study was unable to capture those from a lower socio-economic class. In addition, people who did not feel safe to answer online survey or had concerns around privacy of personal data were unlikely to participate in the research. Finally, other relevant variables related to counselling and psychotherapy services utilization, such as, physical comorbidities, family history of mental disorder, and childhood traumatic experiences, were not analysed because the data was unavailable.

Conclusion

The findings revealed that Chinese sexual minorities had a relatively lower utilization rate for counselling and psychotherapy services. Service providers as well as policy makers should revise policies to address the mental health needs of sexual minority populations by improving the quality of counselling and psychotherapy services such as subsidising the cost of counselling and psychotherapy services. Policy advocacy campaigns are needed to more widely publicised counselling and psychotherapy services within sexual minority communities. It is important to enhance training programs about LGBT specific needs for mental health experts. As well as introduce training programs for healthcare professionals to improve their understanding of sexual minority populations. The development of legal protection for sexual minorities is also highly encouraged to decrease stigma and discrimination that LGBT individuals face.

Supplementary Information

The online version contains supplementary material available at https://doi.org/10.1186/s12888-020-03010-3.

Additional file 1.

Abbreviations

LGBT: Lesbian, gay, bisexual and transgender; OR: Odds Ratios; CI: Confidential Interval

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None.

Authors' contributions

Study design: CR, WY, XY, WL. Study implementation: WL, XY; Data analysis: WY, LL, LW, HZ, PK, OJ; Data interpretation: LW, HZ, PK, DZ, LJ; Manuscript preparation and revision: CR, WY, LL, DJ, WA and OJ. All authors read and approved the final manuscript.

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Availability of data and materials

Readers and all interested researchers may contact Runsen Chen (Email address: runsen.chen@psych.ox.ac.uk) for details.

Ethics approval and consent to participate

This study (data secondary analysis) received approval by the Human Research and Ethics Committee of Second Xiangya Hospital, Central South University, China and informed consent was given by all participants. Participants were ensured that the participation was completely voluntary, and their information would be kept confidential. For the in person data collection, the informed consent was provided in written format before participating in the survey.

Consent for publication

Not applicable.

Competing interests

Runsen Chen is an editorial board member of BMC Psychiatry.

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References

- United Nations Development Programme. Being LGBTI in China A National Survey on Social Attitudes towards Sexual Orientation, Gender Identity and Gender Expression. In: Edited by Programme UND: United Nations Development Programme; 2016.
- Yang XS, Wang L, Gu Y, Song W, Hao C, Zhou JL, Zhang Q, Zhao Q. A crosssectional study of associations between casual partner, friend discrimination, social support and anxiety symptoms among Chinese transgender women. J Affect Disord. 2016;203:22–9.
- Wang Y, Hu Z, Peng K, Rechdan J, Yang Y, Wu L, Xin Y, Lin J, Duan Z, Zhu X. Mapping out a spectrum of the Chinese public's discrimination toward the LGBT community: results from a national survey. BMC Public Health. 2020; 20:1–10.
- 4. Schulman JK, Erickson-Schroth L. Mental Health in Sexual Minority and Transgender Women. Med Clin N Am. 2019;103(4):723.
- Burgess D, Tran A, Lee R, van Ryn M. Effects of perceived discrimination on mental health and mental health services utilization among gay, lesbian, bisexual and transgender persons. J LGBT Health Res. 2007;3(4):1–14.
- Steele LS, Daley A, Curling D, Gibson MF, Green DC, Williams CC, Ross LE. LGBT identity, untreated depression, and unmet need for mental health services by sexual minority women and trans-identified people. J Women's Health. 2017;26(2):116–27.
- Kerr DL, Santurri L, Peters P. A comparison of lesbian, bisexual, and heterosexual college undergraduate women on selected mental health issues. J Am Coll Heal. 2013;61(4):185–94.
- Koh AS, Ross LK. Mental health issues: a comparison of lesbian, bisexual and heterosexual women. J Homosex. 2006;51(1):33–57.
- Welch S, Collings SCD, Howden-Chapman P. Lesbians in New Zealand: their mental health and satisfaction with mental health services. Aust Nz J Psychiat. 2000;34(2):256–63.
- Avery AM, Hellman RE, Sudderth LK. Satisfaction with mental health services among sexual minorities with major mental illness. Am J Public Health. 2001;91(6):990–1.
- Liang D, Mays VM, Hwang WC. Integrated mental health services in China: challenges and planning for the future. Health Policy Plann. 2018;33(1):107–22.
- 12. The current status and development mental health in China (in Chinese) [https://new.qq.com/omn/20181229/20181229A04993.html].
- 13. Xiang YT, Ng CH, Yu X, Wang G. Rethinking progress and challenges of mental health care in China. World Psychiatry. 2018;17(2):231–2.
- 14. Xiang YT, Yu X, Sartorius N, Ungvari GS, Chiu HFK. Mental health in China: challenges and progress. Lancet. 2012;380(9855):1715–6.
- Wang Y, Hu Z, Peng K, Xin Y, Yang Y, Drescher J, Chen R. Discrimination against LGBT populations in China. Lancet Public Health. 2019;4(9):e440–1.
- Chong ESK, Zhang Y, Mak WWS, Pang IHY. Social media as social capital of LGB individuals in Hong Kong: its relations with group membership, stigma, and mental well-being. Am J Commun Psychol. 2015;55(1–2):228–38.
- 17. Bryson M. When Jill jacks in: queer women and the net. Fem Media Stud. 2004;4(3):239–54.
- Mereish EH, Poteat VP. A relational model of sexual minority mental and physical health: the negative effects of shame on relationships, loneliness, and health. J Couns Psychol. 2015;62(3):425–37.
- Chen R, Zhu X, Wright L, Drescher J, Gao Y, Wu L, Ying X, Qi J, Chen C, Xi Y, et al. Suicidal ideation and attempted suicide amongst Chinese transgender persons: national population study. J Affect Disord. 2019;245:1126–34.
- Zhu X, Gao Y, Gillespie A, Xin Y, Qi J, Ou J, Zhong S, Peng K, Tan T, Wang C, et al. Health care and mental wellbeing in the transgender and genderdiverse Chinese population. Lancet Diabetes Endocrinol. 2019;7(5):339–41.
- Wang Y-Y, Dong M, Zhang Q, Xu D-D, Zhao J, Ng CH, Ungvari GS, Jia F-J, Xiang Y-T. Suicidality and clinical correlates in Chinese men who have sex with men (MSM) with HIV infection. Psychol Health Med. 2019;24(2):137–43.
- 22. Zhao XD, Liu L, Hu CP, Chen FZ, Sun XR. Necessity and feasibility of improving mental health services in China: a systematic qualitative review. Int J Health Plan M. 2017;32(3):363–71.

- A Suitable Space. Improving counselling services for Asian people. [https:// www.cambridge.org/core/journals/psychiatric-bulletin/article/suitable-spaceimproving-counselling-services-for-asian-people-gina-netto-and-othersbristol-policy-press-the-joseph-rowntree-foundation-2001-34-pp-1095-pb/E4 776F62154E871AF41D4018781BBA03]. Published online by Cambridge University Press: 02 January 2018.
- Dolja-Gore X, Loxton D, D'Este C, Blyth F, Byles J. Differences in use of government subsidised mental health services by men and women with psychological distress: a study of 229,628 Australians aged 45Years and over. Commu Ment Hlt J. 2018;54(7):1008–18.
- 25. Horton SEB. Religion and health-promoting behaviors among emerging adults. J Relig Health. 2015;54(1):20–34.
- Idler EL, Musick MA, Ellison CG, George LK, Krause N, Ory MG, Pargament KI, Powell LH, Underwood LG, Williams DR. Measuring multiple dimensions of religion and spirituality or health research - conceptual background and findings from the 1998 general social survey. Res Aging. 2003;25(4):327–65.
- 27. Katz-Wise SL, Hyde JS. Victimization experiences of lesbian, gay, and bisexual individuals: a meta-analysis. J Sex Res. 2012;49(2–3):142–67.
- Hughto JMW, Pachankis JE, Willie TC, Reisner SL. Victimization and depressive symptomology in transgender adults: the mediating role of avoidant coping. J Couns Psychol. 2017;64(1):41–51.
- Wang Y, Yu H, Yang Y, Li R, Wilson A, Wang S, Drescher J, Chen R (2020). The victim-bully cycle of sexual minority school adolescents in China: prevalence and the association of mood problems and coping strategies. Epidemiology and Psychiatric Sciences 2020;29(e179):1–12. https://doi.org/ 10.1017/S2045796020000918.
- Meyer IH. Prejudice, social stress, and mental health in lesbian, gay, and bisexual populations: conceptual issues and research evidence. Psychol Bull. 2003;129(5):674–97.
- Wang Y, Yu H, Yang Y, Drescher J, Li R, Yin W, Yu R, Wang S, Deng W, Jia Q. Mental health status of cisgender and gender-diverse secondary school students in China. JAMA Netw Open. 2020;3(10):e2022796.
- Peng K, Zhu X, Gillespie A, Wang Y, Gao Y, Xin Y, Qi J, Ou J, Zhong S, Zhao L. Self-reported rates of abuse, neglect, and bullying experienced by transgender and gender-nonbinary adolescents in China. JAMA Netw Open. 2019;2(9):e1911058.
- Reisner SL, Hughto JMW, Gamarel KE, Keuroghlian AS, Mizock L, Pachankis JE. Discriminatory experiences associated with posttraumatic stress disorder symptoms among transgender adults. J Couns Psychol. 2016;63(5):509–19.
- Qiao S, Zhou GY, Li XM. Disclosure of same-sex behaviors to health-care providers and uptake of HIV testing for men who have sex with men: a systematic review. Am J Mens Health. 2018;12(5):1197–214.
- Tatum AK. Workplace climate and satisfaction in sexual minority populations: an application of social cognitive career theory. J Couns Psychol. 2018;65(5):618–28.
- Wang Y, Wilson A, Chen R, Hu Z, Peng K, Xu S. Behind the Rainbow, "Tongqi" Wives of Men Who Have Sex With Men in China: A Systematic Review. Front. Psychol. 2020;10:2929. https://doi.org/10.3389/fpsyg.2019. 02929.

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