

PAKISTAN JOURNAL OF HEALTH SCIENCES

https://thejas.com.pk/index.php/pjhs Volume 4, Issue 3 (March 2023)



Original Article

Association Between Postponements of Medical Care and Financial Constraints Among Transgender Population

ABSTRACT

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ARTICLE INFO

Key Words:

Financial Constraints, Postponement of Medical Care, Transgender Health, Socioeconomic Status

How to Cite:

Ali, A. ., Ahmed Khan, S. ., Zeb, S. ., Alhamdan, F. ., & Saeed Ali, T. . (2023). Association Between Postponements of Medical Care and Financial Constraints Among Transgender Population: Postponements of Medical Care Among Transgender Population. Pakistan Journal of Health Sciences, 4(03). https://doi.org/10.54393/pjhs.v4i03.611

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Received Date: 25th February, 2023 Acceptance Date: 18th March, 2023 Published Date: 31st March, 2023

INTRODUCTION

Health is a basic human need and access to healthcare is a basic non-negotiable human right. One of the determinants of health is socioeconomic status of the individual, and although it is a modifiable risk factor, it is still a factor that may obstruct the delivery of care, making the afflicted more vulnerable to deterioration, that is one of the fast growing challenge for the new generation which can be worst for their own selves and as well as for the community health by transmitting the contagious diseases from the infected individuals to the healthy population and this also could lead to disability in case of non-

Health is a basic human need and access to healthcare is a basic non-negotiable human right. Objectives: To examine the association between postponements of medical care and financial constraints that might lead to delay in their medical care. Methods: We conducted a primary, analytical cross-sectional study including transgender individuals (n=250), using a purposive sampling technique who were registered with the Gender Interactive Alliance (G.I.A) a nongovernmental organization (NGO) in Karachi, Pakistan. We assessed their demographic data by documenting age, gender, religion, income and province, in relation to access to medical care. Results: Data were obtained from 204(81.6%) males and 46(18.4%) females' transgenders. The mean age was 32.34 years (S.D=7.85). A Significant association was found in postponement of medical care and financial constraints, with educational status which showed that more than half (55%) were Non Matriculated (p-Value= 0.001), gross monthly income (before taxes) were between 21000 to 30000 PKR(p = 0.002) per month and half of the population were homeless (p <0.001) and it has significantly decreased their chances of access to medical care. Conclusion: Significant association found between postponements of medical care and to financial constraints in transgender population. Further studies are needed to shed light on the struggles that transgenders face in medical care and to find out the solution to help those neglected individuals/section of society.

> communicable disease. These can happen due to poor state health policy, financial bottlenecks, huge discrimination, old age population and increase in the levels of chronic diseases. It is now mandatory to overcome the health care issues to improve socioeconomic status. Furthermore, postponement of needed medical care that delay to identify initial diagnosis, while late identification of the diagnosis is also associated with a huge loss of employment, low socioeconomic status and bad effect on mental health. The Primary Health Care which was set as the global priority of its function; to provide the basic

health intervention discussed in 1978 Alma-Ata declaration that was health for all, which means provision of health without any discrimination. But, unfortunately PHC is still not active in low and in Middle income countries. Pakistan lacks international standards and minimum measures behind the sustainable developmental goal (SDG), the poor health outcome that is due to increased flow of patients in the hospitals and institutional corruption. Pakistan has been recorded by the most corrupt (116th) country out of 176 in the world by the World Bank in international transparency record in 2016; it has been found that corruption is directly associated with poverty which has a negative impact on the health of poor income population [1-6]. The transgender population is significantly postponed needed medical care which is due to non-affordability. Thus the transgender population is facing big issues which are unemployment, and 36% of those who were employed whose monthly income was relatively low, reported suicidal attempts due to discrimination and low monthly income. Transgender women are paying huge financial cost for their needed medical treatment as compared to transgender men due to comparatively lower income [7-9]. The lower income plays an important role as a health barrier in the form of the prevention of screening test and other health care related checkup because the transgender population is also found affected by communicable diseases i.e. HIV and so on. Such positive patients are very vulnerable and pose a threat to the healthy population. Furthermore, various determinants of health including inequality in provision of health care, health insurance policy, employment status and public policy or lack of awareness among health care providers on transgender population related to the health issues. Moreover, it has been found that health insurance status and treatment cost directly effect on the health outcome [10-12]. Pakistan is a lower middle income country, a crosssectional study found that those having low socioeconomic status had bad effect on their health and educational system i.e. malnourishment, poor diet, and lack of education. Another study found in kpk and Punjab with positive association between head and neck cancer patients and low socioeconomic status, thus it implies a psychological stress. According to UNDP, Pakistan is the 5th largest young country, while facing great challenges of unemployment and illiteracy rate, 68% of population is below 30 years of age but facing great challenges, but unfortunately 62.3% of the population cannot read and write [13-15]. It has been found that with income status seventy percent (70%) of the transgender population face poor quality of health care. Another study conducted in the Latin America showed that eight percent of the world population faces violence and inequality [16, 17]. The above mentioned reports found worldwide about inequalities in access of health care treatment related to socioeconomic status. Therefore, the authors had decided to conduct the below analytical cross-sectional study in Karachi Pakistan. The aim of this study was to examine whether economic and educational status had an impact on the postponement of medical care or not.

METHODS

Analytical cross-sectional study was conducted, using purposive sampling technique. Data collected via questionnaire from 250 transgender participants, after a formal permission from Gender Interactive Alliance (G.I.A) a non-governmental organization (NGO) in Karachi, Pakistan from February, 2020 to May, 2020. Below 18 years of age and mentally retarded individuals were excluded from the study. The study followed strict ethical guidelines and received ethical approval (REC Ref No.Sc/EPH/S17-01) Dadabhoy Institute of Higher Education (DIHE) Karachi Pakistan. Data were analyzed on SPSS (version 21.0). We assessed the demographic data for the frequency distribution, mean and standard deviation. Furthermore, we applied the Chi-square test to examine the association between postponements of medical care and financial constraints.

RESULT

Table 1 showed that 250 transgender respondents participated with the mean age of 32.34 years (S.D=7.85). Based on their gender 204 (81.6%) males and 46 (18.4%) females' transgenders reported. Furthermore, based on their religion, 86.8% found Muslim; whereas 7.6% were Christian and 5.6% were Hindu. Moreover, 10.8% were Baloch, 15.2% were Pashtun, 24.8% were Punjabi, 24.8% were Sindhi, 21.6% were Muhajir (Urdu speaker), and 2.8% were others as identified by their ethnicity status of the participants. More than half (60.4%) of the participants belonged to the Sindh region, 18.0% were from Punjab, 13.6% from KPK, and 8.0% from Baluchistan province. Based on the educational and financial status, most of the Participants educational level (42.8%) was primary, whereas 18.4% had middle school education, 20.4% had matriculation experience, 6.4% had intermediate education, 3.2% had a Bachelor's Degree, 0.8% had a Master's Degree, 0.8% had a Professional degree, and 7.2% were uneducated. The monthly income identified as, 2.0% earning less than 10000 PKR, whereas 14.0% earned between 11000 to 20000 PKR, 34.4% earned between 21000 to 30000 PKR, 38.8% earned between 31000 to 40000 PKR, 10.4% earned between 41000 to 50000 PKR, and 0.4% earned between 51000 to 60000 PKR. Regarding the participants living status, half (50.0%) were homeless, 33.6% were living in a shelter, 2.0% were living in university housing, 4.4% were still living with their parents, and 10.0%

were staying with friends temporarily.

	Demographic characteristics					
1	Mean age of the respondents in years	32.34+7.858				
2	What is your current Gender					
-	Transgender Man	204 (81.6%)				
	Transgender Woman	46(18.4%)				
3						
	Muslim	217(86.8%)				
	Christian	19(7.6%)				
	Hindu	14 (5.6%)				
4						
	Baloch	27(10.8%)				
	Pashtun	38(15.2%)				
	Panjabi	62(24.8%)				
	Sindhi	62(24.8%)				
	Muhajir (Urdu Speaker)	54 (21.6%)				
	Others	7(2.8%)				
5	Province of the participants					
	Baluchistan	20(8.0%)				
	КРК	34(13.6%)				
	Punjab	45(18.0%)				
	Sindh	151(60.4%)				
6	Highest Degree or Level of education					
	Primary	107(42.8%)				
	Middle	46(18.4%)				
	Matriculation	51(20.4%)				
	Intermediate	16(6.4%)				
	Bachelor Degree	8(3.2%)				
	Master Degree	2(0.8%)				
	Professional Degree (MBBS, DVM,LLB)	2(0.8%)				
	Uneducated	18(7.2%)				
7	Current gross monthly household income (before taxes)					
	Less than 10000 PKR	5(2.0%)				
	11000 to 20000 PKR	35(14.0%)				
	21000 to 30000 PKR	86(34.4%)				
	31000 to 40000 PKR	97(38.8%)				
	41000 to 50000 PKR	26(10.4%)				
	51000 to 60000 PKR	1(0.4%)				
8	Current living arrangement					
	Homelessness	125 (50.0%)				
	Living in a shelter	84(33.6%)				
	Living in a campus or university housing	5(2.0%)				
	Still living with parents or family you grew up with	11(4.4%)				
	Staying with friends or family temporally	25(10.0%)				
	bla1: Demographic obstractoristics of transgonder					

Table 1: Demographic characteristics of transgender

Analysis of the Chi square result showed (Table 2) that transgender respondents who belonged from the Sindh province of the country (p <0.001) has significantly postponed or not to get medical care. Furthermore, 55% (17.5% had Primary, 37.5% Middle) had the education below matriculation (p = 0.001). Moreover, monthly income of the participants had between 21000 to 30000 PKR (p = 0.002). Finally, half (50%) of the transgender population had homeless and postponed or not to get medical care,

because they couldn't afford (p < 0.001).

	Name of the Variable	Postponed or not tried to get medical care when I was sick or injured because I didn't afford it.		p-Value	
		Yes	No		
1	What is your current gender identity				
	Transgender Man	37(92.5%)	167(79.5%)	0.052	
	Transgender Woman	3(7.5%)	43(20.5%)	0.002	
2	What is your religion				
	Muslim	33(82.5%)	184 (87.6%)		
	Christian	5(12.5%)	14 (6.7%)	0.441	
	Hindu	2(5%)	12 (5.7%)		
3	3 What is your race/ethnicity?				
	Baloch	4(10%)	23 (11%)		
	Pashtun	6(15%)	32(15.2%)		
	Panjabi	13 (32.5%)	49(23.3%)	0.752	
	Sindhi	9(22.5%)	53 (25.2%)		
	Muhajir (Urdu Speaker)	8(20%)	46 (21.9%)		
	Others Which of the follo	0(0%)	7(3.3%)		
4					
	Baluchistan KPK	0(0%) 2(5%)	20(9.5%) 32(15.2%)	-	
		1(2.5%)	44 (21%)	<0.001	
	Punjab Sindh	37(92.5%)	114 (54.3%)		
	What is the highest de			u have	
5		completed?			
	Primary	7(17.5%)	100 (47.6%)		
	Middle	15(37.5%)	31(14.8%)		
	Matriculation	14 (35.0%)	37(17.6%)		
	Intermediate	2(5.0%)	14 (6.7%)	0.001	
	Bachlor Degree	0(0.0%)	8(3.8%)		
	Master Degree	0(0.0%)	2 (1.0%)		
	Professional degree	0(0.0%)	2 (1.0%)		
	Uneducated	2(5.0%)	16 (7.6%)		
6	What is your gross monthly Less than 10000 PKR			es)?	
	11000 to 20000 PKR	0(0.0%)	5(2.4%)		
		6(15.0%) 25(62.5%)	29(13.8%)		
	21000 to 30000 PKR		61(29.0%)	0.002	
	31000 to 40000 PKR	8(20.0%)	89(42.4%)		
	41000 to 50000 PKR 51000 to 60000 PKR	1(2.5%)	25(11.9%)		
7	What is your curre	0(0.0%)	1(0.5%)		
	Homeless	20 (50%)	105(50%)		
	Living in a shelter	8(20%)	76(36.2%)	<0.001	
	Living in campus or university housing	1(2.5%)	4 (1.9%)		
	Still living with parents or family you grew up	8(20%)	3 (1.4%)		
	Staying with friends or family or temporarily	3(7.5%)	22(10.5%)		

Table 2: Analysis of the Chi square result

DISCUSSION

In the present study, we examined the association between financial constraints and postponements of needed medical care. Half (50%) of them who had an education

below matriculation (17.5% had Primary, 37.5% Middle) were significantly more likely to postponed or not to get needed medical care because they couldn't afford it (X^2 p= 0.001). Furthermore, based on monthly income, more than half (62.5%) of the study population gross monthly income had between 21000 to 30000 rupees before income taxes (X² p= 0.002), were significantly more likely postponed needed medical care. Moreover, similarly a previous study has reported that financial barrier is the main factor of postponement of medical care among transgender population. Whereas, another study reported that the socioeconomic factor such as education, parental education and income has a significant effect on brain cognitive [16, 17]. In addition to that, another study has been found in which low income population is significantly associated in postponement of needed medical care because low income population cannot afford needed medical care, therefore they face more complication and low recovery from the diseases. While in the previous research study similarly report found that 51% of the transgender population reported with low socioeconomic status. Delayed in needed medical care found a very significantly association between those populations who were facing financial issue. Finally, another previous study showed a positive association between low income and educational status and postponement of medical treatment among cancer patients [18-20].

CONCLUSIONS

The current study suggests a significant association between postponements of medical care and financial constraints. Immense need of increasing educational and employment status, making strong policy and ensuring early diagnosis and cure by applying an efficient surveillance system. Further studies are needed to shed light on the struggles.

Conflicts of Interest

The authors declare no conflict of interest.

Source of Funding

The authors received no financial support for the research, authorship and/or publication of this article

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