Prevalence and Severity of Depression among Women Having Genitourinary Fistula Attending Tertiary Care Hospital Hyderabad

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Abstract

Objective: To determine the prevalence of depression among women having genitourinary istula presenting at tertiary care hospital Hyderabad. Study Design: cross sectional study. Setting: Department of Obstetrics and Gynecology, Liaquat University Hospital, Hyderabad Sindh Pakistan from May 2017 to January 2018. Material and methods: 85 women having genitourinary istula were selected. Details of patient was recorded on predesigned proforma, information was gathered. The PHQ-9 patient depression questionnaire was administered at the time of admission to the hospital. **Results:** The average age was 35.68 ± 7.48 years. The prevalence of depression among women having genitourinary istula was 40% (34/85) cases. Rate of depression was signi icantly high in women with grand multiparty, obstetric labor and in women who had history of pervious pelvic surgery. Conclusion: Prevalence of depression and severity were observed to be high among patients having genitourinary istula presenting at tertiary care hospital Hyderabad. There is a need for better obstetric facilities, emotional support and reintegrating patients back into society after their physical health has been restored, as well as taking steps to educate the public about the problem by holding awareness programmers and encouraging people to seek medical help early in the disease's course, will aid in the restoration of these patients' general health.

Keywords: Genitourinary fistula; Depression; PHQ-9 Questionnaire

Introduction

Genitourinary fistula is an unusual association between urinary and genital tract, which leads to continues leaking of urine in the vagina [1]. It is the most distressing complication that occurs in women. The incidence of genitourinary fistula after gynecological surgery, particularly hysterectomy, has increased, but in Pakistan obstructed labor is still considered as the major cause of vesicovaginal fistula as 80% to 90% of cases reported occur because of this obstetric complication [2]. According to worldwide reliable data, there are an estimated 2 million cases, with 50,000-100,000 new cases each year [3]. Females are also negatively affected by the clinical and psychological consequences of this health issue.

Females are frequently shunned by their husbands, families, and communities. Depression, low self-esteem, and other psychological problems may result from these attitudes [4]. According to a Nigerian study, approximately 33% of females having fistula suffered from depression. As per another study on relationship issues, 18 percent of females who were diagnosed with fistula were divorced by their husbands after being diagnosed. Furthermore, 39 percent of the fistula patients reported relying on relatives for food, and 22% of fistula patients reported surviving by begging or donating [5]. With its catastrophic impact on a woman's personal hygiene, self-esteem, interpersonal interactions, and environment, vesicovaginal fistula impairs all three aspects of her health [6]. Previous studies have diagnosed psychological issues,

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especially depression in patients having genitourinary fistula, but their post repair improvement in depression has not been evaluated systematically. So, this study may evaluate the level of depressive illness of affected women after successful repair of genitourinary fistula in Hyderabad Sindh.

Material and Methods

This cross-sectional study with non-probability consecutive sampling fashion was conducted in welfare ward of obstetrics and gynecology department at Liaquat University Hospital Hyderabad from May 2017 to January 2018. Approval of ethical committee was also taken before start of the study. Women of 25-50 years of age having genitourinary fistula due to any cause with duration of fistula of >4 weeks were included in the study after taking informed consent. Women with rectovaginal fistula, (when patient complains of stool coming from vagina and then assessed by naked eye on examination and women having depression other than fistula which confirmed by previous history of depression before fistula were excluded. Sample size calculation was done based on proportion of (around 33% of depression) with considering 5 margin of error and desired confidence level of 95%, the sample size was stand to be 85 [9]. After taking details medical history and clinical examination, the PHQ-9 patient's depression questionnaire was administered at the time of admission to the hospital. The PHQ-9 depression questionnaire scale presents a number of questions with a four option like rating scale for the participants to score. The score in each domain was obtained by mean of transformed scores converted to a 0-27 scale [10,11]. These scores was compared with the mean score zero indicate no depression, 1-4 indicated minimal depression, 5-9 indicated moderate mild depression, 10-14 indicate moderate depression,15-19 indicate moderately severe depression and 20-27 indicate severe depression. All the data was collected *via* study preform and analysis of data was done by using SPSS version 20

Results

A total of 85 women having genitourinary fistula were recruited in this study. The average age was 35.68 ± 7.48 years. Residential status of the women was almost same. About, 66% of the women were married and most of them had multiparous (70.6%). Regarding education status of women, more than 50% were low educated. History of obstructed labor and previous pelvic surgery was 42 (49.41%) and 25 (29.41%) as presented in table 1 respectively. Prevalence of depression among women having genitourinary fistula was 40% (34/85) cases. Out of 34 women with depression 41% had mild depression, 26% moderate, 12% moderately severe and 21% had severe depression (Figure 1). In univariate analysis, prevalence of depression was significantly high in women with grand multiparty (unadjusted OR=4.7; 95% CI: 1.18-19.06), obstetric labor (unadjusted OR=3.52; 95% CI: 1.41-8.78) and in those women who had history of pervious pelvic surgery (unadjusted OR=5.37; 95% CI: 1.96-14.76) while other factors listed in table 2 were not statistically significant with depression. Multivariate logistic regression was run and found that obstetric labour (adjusted OR= 8.09; 95%CI: 2.18-29.99; p=0.002) and history of pervious pelvic surgery adjusted OR=12.13; 95% CI: 2.78-52.94; p=0.001) and multiparty (adjusted OR= 0.21; 95% CI: 0.049-0.86; p=0.031) were only the significant factors of depression.

Table 1: Demographic characteristics of the study participants (n=85).				
	Descriptive statistics			
	35.68 ± 7.48			
	154.18 ± 5.51			
	66.58 ± 12.37			
	27.95 ± 4.78			
	5.40 ± 1.67			
Residential status	Rural	43 (50.6%)		
	Urban	42 (49.4%)		
Marital status	Married	56 (65.9%)		
	Unmarried	17 (20%)		
	Separated/Divorced	12 (14.1%)		
Parity	0-1	29 (34.1%)		
	02-May	42 (49.4%)		
	>5	14 (16.5%)		
Education	Primary	12 (14.1%)		

	Secondary		37 (43.5%)
	Metric or a	Metric or above	
History of previous pelvic surgery	Obstructed labour	Yes	42 (49.4%)
		No	43 (50.6%)
	Pelvis surgery	Yes	25 (29.4%)
		No	60 (70.6%)

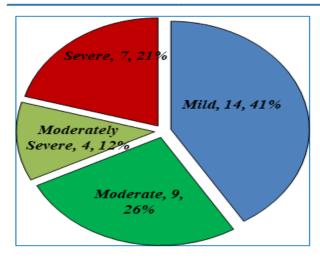


Figure 1: Severity of depression among women having genitourinary fistula (n=34).

	Table 2: Factors associated with depression among women having genitourinary fistula.					
Vari	Variable		Depression n=34	P-value	OR (95%CI)	
Age groups (years)	≤ 30 31-40>40	22	10 (45.5%)	0.53	0.67 (0.19-2.33)	
	31-40	45	14 (31.1%)	0.76	0.36 (0.12-1.11)	
	>40	18	10 (55.6%)		Ref	
BMI (kg/m2)	Normal	43	18 (41.9%)	0.56	Ref	
	Overweight	18	9 (50%)	0.31	1.38 (0.46-4.19)	
	Obese	24	7(29.2%)		0.57 (0.19-0.166)	
Residential Status	Rural	42	18 (42.9%)	0.59	Ref	
	Urban	43	16 (37.2%)		0.79 (0.33-1.88)	
Marital Status	Married	56	23 (41.1%)	0.97	0.97 (0.27-3.45)	
	Unmarried	17	6 (35.3%)	0.72	0.76 (0.16-3.48)	
	Separated/ Divorced	12	5 (41.7%)		Ref	
Parity	Nulli and Primiparous	2942	10 (34.5%)	0.92	Ref	
	Multiparous	14	14 (33.3%)	0.028	0.95 (0.35-2.58)	
	Grand multiparous		10 (71.4)		4.7 (1.18-19.06)	
Education	Primary	12	4 (33.3%)	0.545	Ref	
	Secondary	37	16 (43.2%)	0.731	1.52 (0.38-5.96)	
	Metric and above	36	14 (38.9%)		1.27 (0.32-5.03)	
Obstetric Labour	Yes	42	23 (54.8%)	0.006	3.52 (1.41-8.78)	
	No	43	11 (25.6%)		Ref	

History of previous pelvic surgery	Yes	25	17 (68%)	0.001	5.37 (1.96-14.76)
	No	60	17 (28.3%)		Ref

Discussion

In poor nations, genito-urinary fistula is one of the most common health concerns among females of reproductive age [7]. It is, without a doubt, the most upsetting and degrading situation a woman can face. These sad ladies frequently suffer from emotional and physical discomfort, making them social outcasts [8]. African and Asian poor communities have the highest prevalence, accounting for 0.5-1.7 percent of gynecological hospitalizations in teaching hospitals [10]. Approximately 2 million Asian, African, and the Arab world females are plagued by obstetric fistulae, according to the World Health Organization (WHO), with estimated 50,000 to 100,000 new cases per year [11,12]. This uncontrolled urine leaking causes a foul odour at social gatherings, resulting in social shame and subsequent social neglect. the eventual effect of this illness is typically distressing, with these women being shunned by their communities, abandoned by their family, divorced, and childless. According to a study of 899 fistula patients, 71 percent of them had divorced or separated from their husbands [13], and several of them were pregnant. [14,15] To determine the frequency and severity of Depressive among women having genitourinary fistula Eighty-five women of 25-50 years of age having genitourinary fistula with duration of fistula of >4 weeks were recruited. Where these women have to bear the pain of a fetal loss as in obstetric labor, they are often left with an unpleasant complication and the subsequent rejection from their family and community, which lead to despair, self-worth loss, and a sense of shame, as well as isolation. VVF is a stigma owing to the destructive effect and is a painful punch heading for the sufferer's psychological well-being, Fasakin G remarked. A stigmatised person cannot live a happy and successful life; this explains the condition of a woman with VVF [16]. Delays in treating these patients due to a lack of knowledge stoke the fires of these psychological issues, which clinicians frequently overlook throughout treatment. In our study frequency of depression among women having genitourinary fistula was observed in 40% (34/85) cases. Regarding severity of depression our results show that 14 (16.47%) had mild depression, 9 (10.59%) moderate depression, 4 (4.71%) moderately severe and 7 (8.24%) had severe depression. Observations of the study have important implications for maternal health clinical practice and research. Because the patient's social functioning and mental health tend to improve after the fistula is repaired surgically [17]. In their study reported 97.3% of the females having obstetric fistulae have depression (100 percent for those with both recto-vaginal fistulae and vesico-vaginal fistulae), which is consistent to previous Ethiopian reports (100 percent) and a report that screened fistula patients from Ethiopia and Bangladesh (97 percent) [18,19]. However, this is greater than a Kenyan study that found 72.9 percent of fistula patients had depression symptoms using the Patient

Health Questionnaire [20]. Depression is 3-5 times as common in women who have VVF than in women who do not [21]. The physical and social repercussions of obstetric fistula are upsetting, and they can have a significant impact on mental health, especially since depression has been linked to conditions that frequently accompany disability [22]. Similar to other studies, moderately severe and severe depression in our study was significantly high in ≤ 30 years of age patients [23]. In contrast, a study of breast or gynecologic malignant cases [24] found that women under 50 were more likely to suffer from depression. Unmarried females were shown to be more depressive than married females. This is likely owing to the fact that being married means having someone to care for you and, more significantly, avoiding the social shame of being single or divorced [25]. The findings of this study can't be applied to other women with similar difficulties because it only looked at patients who came to a teaching referral hospital's gynecologic outpatient clinic. It's unclear if women with depressed symptoms are more troubled and presented to the health facility, or if the opposite is true, that females with symptoms of depression are less likely to receive treatment. Hence, following an obstructed labor, patients must be referred for surgery as soon as possible. Future studies should focus more specifically on the linear influence of leaking intensity on psychological discomfort [26]. Fistula clinicians should aim to address psychosocial issues in their patients with specific mental health therapies, such as a psychological intervention developed for use in Tanzanian fistula repair programs.

Conclusion

The prevalence of depression and its severity were observed to be high among patients having genitourinary fistula presenting at Tertiary Care Hospital Hyderabad. There is a need for better obstetric facilities, emotional support and reintegrating patients back into society after their physical health has been restored, as well as taking steps to educate the public about the problem by holding awareness programmers and encouraging people to seek medical help early in the disease's course, will aid in the restoration of these patients' general health. Further large-scale studies are recommended on this subject.

References

- Memon I, Ahmed SF, Ali SS, Abdullah A. An audit of vesico vaginal fistula at liaquat national hospital. Isra Medical Journal. 2015; 7:191-194.
- Raashid Y, Majeed T, Majeed N, Shahzad N, Tayyab S, Jaffri H. Iatrogenic vesicovaginal fistula. J Coll Physicians Surg Pak. 2010; 20:436-438.

- 3. Jokhio AH, Rizvi RM, MacArthur RC. Prevalence of obstetric fistula: a population-based study in rural P akistan. Bjog Int J Obstet Gy.2014;121:1039-1046.
- Aboh JU, Nwankwo BE, Obi TC, Agu SA. Clinical Features Of Patients Diagnosed With Vesico Vaginal Fistula (Vvf) In South East Nigeria. Nat Sc 2013; 11:110-115.
- Farid FN, Azhar M, Samnani SS, Allana S, Naz A, Bohar F, et al. Psychosocial experiences of women with vesicovaginal fistula: a qualitative approach. J Coll Physicians Surg Pak. 2013; 23:828-829.
- Umoiyoho AJ, Inyang-Etoh EC, Abah GM, Abasiattai AM, Akaiso OE. Quality of life following successful repair of vesicovaginal fistula in Nigeria. Rural and Remote Health. 2011; 11.
- Naru T, Rizvi JH, Talati J. Surgical repair of genital fistulae. J Obstet Gynaecol Res. 2004; 30:293-296.
- 8. Kapoor R, Ansari MS, Singh P, Gupta P, Khurana N, Mandhani A, et al. Management of vesicovaginal fistula: An experience of 52 cases with a rationalized algorithm for choosing the transvaginal or transabdominal approach. Indian J Urol. 2007; 23:372.
- Kelly J. Vesico-vaginal and recto-vaginal fistulae. J R Soc Med. 1992; 85:257.
- 10. Sarker B, Ghoshroy S, Saha SK, Mukherjee A, Ganguly RP, Saha S. A study of genitourinary fistulae in North Bengal. J Obstet Gynecol India. 2001; 51:165-169.
- 11. Mohamed AA, Ilesanmi AO, Dairo MD. The experience of women with Obstetric Fistula following corrective surgery: a qualitative study in Benadir and Mudug regions, Somalia. Obstet Gynecol Int. 2018.
- 12. Rabail, B, Zahida Perveen, B, Farrukh, B. Vesicovaginal fistula; depression among women. Professional Med J. 2015;22:804-810.
- 13. Tebeu PM, Rochat CH, Kasia JM, Delvaux T. Perception and attitude of obstetric fistula patients about their condition: a report from the Regional Hospital Maroua. Cameroon. 2010;24:26.
- 14. Mselle LT, Kohi TW, Mvungi A, Evjen-Olsen B, Moland KM. Waiting for attention and care: birthing accounts of women in rural Tanzania who developed obstetric fistula as an outcome of labour. BMC pregnancy and childbirth. 2011;1:1-13.
- 15. Sori DA, Azale AW, Gemeda DH. Characteristics and repair outcome of patients with Vesicovaginal fistula managed

- in Jimma University teaching Hospital, Ethiopia. BMC urology. 2016; 16:1-6.
- Fasakin GJ. Vesico vaginal fistula and psychosocial wee-being of women affected in Nigeria. Nigeria: Link Opings University. 2008.
- 17. Zeleke BM, Ayele TA, Woldetsadik MA, Bisetegn TA, Adane AA. Depression among women with obstetric fistula, and pelvic organ prolapse in northwest Ethiopia. BMC psychiatry.2013; 13:1-5.
- 18. Browning, A, Fentahun, W Goh JTW. The impact of surgical treatment on the mental health of women with obstetric fistula. Bjog Int J Obstet Gy. 2007;114:1439-1441.
- 19. Goh JT, Sloane KM, Krause HG, Browning A, Akhter S. Mental health screening in women with genital tract fistulae. Bjog Int J Obstet Gy 2005;112:1328-1330.
- Weston K, Mutiso S, Mwangi, JW, Qureshi Z, Beard J, Venkat
 P. Depression among women with obstetric fistula in Kenya. Int J Gynecol Obstet. 2011;11:31-33.
- 21. Ghetti C, Lowder JL, Ellison R, Krohn MA, Moalli P. Depressive symptoms in women seeking surgery for pelvic organ prolapse. Int Urogynecol J. 2010; 21:855-860.
- 22. Nosek MA, Hughes RB. Psychosocial issues of women with physical disabilities: The continuing gender debate. Rehabil Couns Bull. 2003;46:224-233.
- 23. Paganini CBL, Minanni CA, Ferreira AB, Eras AE, Chekin G, Motta BR, et al. Depressive disorder: subdiagnosis in woman with gynecological neoplasms. Applied Cancer Res. 2009; 29:74-82.
- 24. Ell K, Sanchez K, Vourlekis B, Lee PJ, ohnson, Lagomasino MDI, Muderspach L, et al. Depression, correlates of depression, and receipt of depression care among low-income women with breast or gynecologic cancer. J Clin Oncol. 2005;23:3052.
- 25. Mselle LT, Moland KM, Evjen-Olsen B, Mvungi A, Kohi TW. I am nothing": experiences of loss among women suffering from severe birth injuries in Tanzania. BMC women's health.2011;11:1-12.
- 26. Wilson SM, Sikkema KJ, Watt MH, Masenga GG, Mosha MV. Psychological symptoms and social functioning following repair of obstetric fistula in a low-income setting. Matern Child Health J. 2016; 20:941-945.