

The Prevalence of Psychiatric Symptoms in The Patients with Behçet's Disease in Shiraz, Southwest of Iran

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ÖZET:

İran'ın güneybatısı, Shiraz'daki Behçet hastalarında psikiyatrik belirti sıklığı

Giriş: Behçet hastalığı (BH), ilk olarak 1937 yılında bir Türk Dermatoloğu olan Hulusi Behçet tarafından oral, genital ve oküler ülser üçlüsü ile tanımlanan karmaşık bir çoklu sistem sendromudur. Bu çalışmada BH'den muzdarip hastalarda bazı psikolojik belirtilerin varlığını araştırmayı amaçladık.

Yöntem: Bu araştırma Haziran 2011-Ağustos 2011 tarihleri arasında İran'ın güneybatısında yer alan Shiraz Shahid Motahari Kliniği'nde takip edilen hastaların arasından rastgele seçilmiş 101 BH hastasından oluşan bir örneklem üzerinde yapılan kesitsel bir çalışma idi. Tüm hastalar Belirti Tarama Listesi-90-Gözden Geçirilmiş (Symptom Checklist, SCL-90-R) ve yaş ve cinsiyet gibi bazı demografik bilgilerin yer aldığı formları tamamladı. Tüm istatistiksel analizler SPSS istatistik programı (v 17.0) kullanılarak yapıldı.

Bulgular: Sonuçlara göre hastaların %30.7'si (GSI<0.7) sağlıklı iken diğerlerinin (%69.3) çeşitli seviyede belirtileri (GSI<0.7) mevcuttu. Psikiyatrik belirti alt ölçeklerinden somatizasyon (91.7%), anksiyete (78%) ve depresyon (77.78%) en sık belirtilerdi. Diğer yandan en nadir olan belirti ise korku (34.1%) idi. Çalışmamızın bulgularına göre kadın hastaların ortalama anksiyete sonuçları erkeklere göre anlamlı derecede yüksekti (p= 0.013).

Sonuç: Psikolojik belirtilerinin sıklığı BH hastalarında dikkat çekiciydi. Bu nedenle hekimler, hastalarının hastalıkları sırasında gelişebilecek olası psikiyatrik bozuklukları saptayabilmek için onları takip etmelidirler.

Anahtar sözcükler: Behçet, psikiyatrik belirti, sıklık, SCL-90-R

Journal of Mood Disorders 2013;3(1):28-32

ABSTRACT:

The prevalence of psychiatric symptoms in the patients with Behçet's disease in Shiraz, Southwest of Iran

Introduction: Behçet's disease (BD), first explained in 1937 by the Turkish dermatologist Hulusi Behçet, is a complicated multisystem syndrome described by a triad of oral, genital, and ocular ulcers. The present study aimed to investigate existence of some psychological symptoms in the patients suffering from BD.

Method: The present research was a cross-sectional one, which was conducted on a sample of 101 randomly selected patients with BD who had been followed up at Shahid Motahari Clinic, Shiraz, Southwest of Iran, from June 2011 to August 2011. All of the patients completed the Symptom Checklist-90-Revised (SCL-90-R) and some demographic information, such as age and gender. All statistical analyses were performed using the SPSS statistical software (v. 17.0).

Results: According to the results, 30.7% of the patients were healthy (GSI<0.7), while others (69.3%) had different levels of symptoms (GSI>0.7). In psychiatric symptoms' subscales, somatization (91.7%), anxiety (78%), and depression (77.78%) were the most prevalent symptoms. On the other hand, phobia had the lowest prevalence (34.1%). Based on our findings, the females' average anxiety score was significantly higher than that of the male subjects (p= 0.013).

Conclusion: The prevalence of psychological symptoms was remarkable in the patients with BD. Therefore, physicians should monitor their patients in order to detect the possible psychiatric disorders they might develop during their disease.

Key words: Behçet, psychiatric symptom, prevalence, SCL-90-R

Journal of Mood Disorders 2013;3(1):28-32

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Kabul tarihi / Date of acceptance: 19 Şubat 2013 / February 19, 2013

Bağıntı beyanı:

F.B., A.M., A.T., F.F., M.A.N.: Yazarlar bu makale ile ilgili olarak herhangi bir çıkar çatışması bildirmemiştir.

Declaration of interest:

F.B., A.M., A.T., F.F., M.A.N.: The authors reported no conflict of interest related to this article.

INTRODUCTION

Behçet disease (BD), first explained in 1937 by the Turkish dermatologist Hulusi Behçet (1), is a complicated multisystem syndrome described by a triad of oral, genital, and ocular ulcers (2). Besides its characteristic triad, BD frequently involves cardiovascular, pulmonary, neurological, articular, and gastrointestinal systems

causing a mixture of clinical problems and leads to temporary or permanent functional disability (3). The cause of BD is unknown and investigations of probable virological, hormonal, and immunological processes are in progress (4).

The complicated pattern of signs and symptoms in BD can cause different levels of activity restriction and limitations in the individuals' lifestyle, leading to troubles

Table 1: Cut off points of the Iranian version of SCL-90-R (Noorbala et al., 2010)

Cut-off points	Healthy	Borderline	Sick	Extremely sick
Somatization	0-3.5	3.6-11.5	11.6-20.5	20.6-48
Depression	0-6.5	6.6-15.5	15.6-34.5	34.6-52
Anxiety	0-4.5	4.6-10.5	10.6-25.5	25.6-40
Interpersonal sensitivity	0-6.5	6.6-15.5	15.6-26.5	26.6-36
Hostility	0-2.5	2.6-7.5	7.6-16.5	16.6-24
OCD	7-0	8-11	12-26	27-40
Phobia	0-4	5-12	13-20	21-28
Paranoid thoughts	0-7	8-13	14-19	20-24
Psychosis	0-3	4-6	7-23	24-40
Others	0-2	3-6	7-17	18-28

in their psychological health (5,6).

Although it hasn't been proved yet, in some studies, the progression of the disorder, functional weakening, central nervous system involvement, and steroid use have been suggested as the related causes of the psychological symptoms in BD patients (7,8).

The psychological sides of Behcet's syndrome have been peripherally discussed in many reviews and case reports; however, a limited number of articles has exclusively dealt with this aspect (9). Borson described a man, in whom a progressive psychological syndrome was the main manifestation of his disorder (6). Moreover, some studies have found considerable primary and secondary associations between emotional disorders and Behcet's syndrome. Nevertheless, the vague pathogenesis of the somatic condition needs further investigation to clarify this relationship (4). Furthermore, clarification of this relationship may help the physicians to improve the quality of their patients' lives.

The present study aimed to investigate the existence and prevalence of psychological symptoms in the patients with BD in order to contribute to the field in reaching above-mentioned goals.

MATERIALS AND METHODS

The present cross-sectional study was conducted on a sample of 101 randomly selected patients with BD who had been followed up at Shahid Motahari Clinic, Shiraz, southern Iran, from June 2011 to August 2011. The patients, who had a positive history of brain-damage, mental retardation, and/or psychosis before onset of their disease, were excluded from the study. All the study subjects completed the Symptom Checklist -90-Revised

(SCL-90-R) and some demographic information, such as age and gender.

The SCL-R-90 is an extensively used and validated self-reported symptom inventory designed to reflect the psychological symptoms detected in psychiatric and medical patients (10). Each item of the questionnaire was rated by the patients on a five-point scale of distress from 0 (none) to 4 (extreme) which they have experienced during the last 7 days. The questionnaire consists of nine psychological dimensions; i.e., Somatization, Obsessive Compulsive, Interpersonal Sensitivity, Depression, Anxiety, Hostility, Phobic Anxiety, Paranoid, and Psychoticism, and the higher the score, the greater the distress in the psychological aspects.

The Iranian version of SCL-90-R has been validated in many studies in various community samples in Iran. In 1995, Bagheri and his colleagues estimated the validity of the questionnaire as about 97% and its sensitivity, specificity, and reliability as 94%, 98%, and 96%, respectively (11). Table 1 shows the cut off points of the Iranian version of SCL-90-R according to the study conducted by Noorbala et al. (12).

Statistical Analysis

The psychological dimensions of the patients were summarized by descriptive statistics (frequency and percentage). In addition, independent sample T-test was used in order to compare the mean differences of male and female subjects regarding the psychological syndrome. All the statistical analyses were performed through the SPSS statistical software (v. 17.0) and $p < 0.05$ was considered as statistically significant.

RESULTS

The present study was conducted on 101 BD patients (4 with missing data) with the mean age of 38.66 ± 11.75 and the age range of 15 to 65 years old. In addition, 31 patients were male (30.69%) and 70 were female (69.30%). None of the patients had any history of brain-damage, mental retardation, and psychosis.

Based on the cut-off point of GSI which was reported in a study (0.7)(13), 30.7% of the patients were healthy ($GSI < 0.7$) and others (69.3%) had different levels of disorders ($GSI > 0.7$). In the psychiatric symptoms' subscales, somatization (91.7%), anxiety (78%), and depression (77.78%) were the most prevalent symptoms. On the other hand, phobia had the lowest prevalence (34.1%). The prevalence of other symptoms is shown in

Table 2: The prevalence of psychological symptom levels according to SCL-90-R

	Healthy	Borderline	Sick	Extremely sick	Total
Somatization	7(8.3%)	24(28.6%)	20(23.8%)	33(39.3%)	84
Depression	17(22.4%)	23(30.3%)	33(43.4%)	3(3.9%)	76
Anxiety	18(22%)	25(30.5%)	35(42.7%)	4(4.9%)	82
Interpersonal sensitivity	21(25.9%)	45(55.6%)	15(18.5%)	0	81
Hostility	22(25.9%)	39(45.9%)	24(28.2%)	0	85
OCD	26(31%)	24(28.6%)	32(38.1%)	2(2.4%)	84
Phobia	54(65.9%)	21(25.6%)	7(8.5%)	0	82
Paranoid thoughts	51(65.4%)	19(24.4%)	6(7.7%)	2(2.6%)	78
Psychosis	25(30.9%)	14(17.3%)	38(46.9%)	4(4.9%)	81

Table 3: Comparison of SCL-90-R scores in the patients with BD by gender

Gender	t	Mean±Std Deviation	p value*
Somatization			
male	-1.514	14.5769±9.3002	0.134
female		18.3793±11.1824	
OCD			
male	-0.488	10.7500±6.3674	0.627
female		11.6333±7.8890	
Interpersonal sensitivity			
male	-0.169	10.0435±6.2193	0.866
female		10.291±5.9176	
Depression			
male	-1.568	12.8696±9.3142	0.121
female		16.6981±9.9665	
Anxiety			
male	-2.077	8.6250±5.1059	0.013
female		12.5517±8.6393	
Hostility			
male	1.302	6.0417±4.2373	0.266
female		4.9672±3.0549	
Phobia			
male	-0.921	3.3913±3.0412	0.261
female		4.4237±5.0145	
Paranoid thoughts			
male	0.905	7.2917±5.3118	0.368
female		6.2222±4.5833	
Psychosis			
male	-0.926	7.2083±6.0288	0.311
female		8.8421±7.6969	

*P-value is significant at <0.05

Table 2. Based on our findings, the anxiety score was significantly higher in females in comparison to males ($p=0.013$). Other p -values are reported in Table 3.

DISCUSSION

The patients who experience chronic diseases, such as BD, sometimes suffer from psychological disorders in addition to the physical symptoms of the disease, which subsequently could have deeply negative effects on the patients' daily lives (6). Our study results showed that some of these psychological manifestations were present in BD patients among which, somatization was the most prevalent symptom (91.7%) followed by anxiety (78%) and depression (77.78%), respectively. In addition, no statistically significant difference was found between the female and male patients, except for anxiety ($p=0.013$).

In general, corticosteroid administration is considered as the main treatment for all the manifestations of the disorder, but the efficient dosage is variable. The primary response to this drug is desirable; however, relapse and remission is quite common in this disease (9).

Up to now, a limited number of studies have been conducted on the psychological aspects of BD and anxiety and depression were frequently detected in this disease (14,15). Similarly, the results of the current study showed that anxiety and depression were quite prevalent; however, somatization revealed the highest prevalence, which is consistent with the findings of some other studies (5). The patients with somatization have a tendency to experience somatic distress as a result of psychosocial stress and seek medical help and may perceive to have a major medical, social, or economic problems. Therefore, if this problem becomes a persistent and chronic condition, it could be very costly and difficult to prevent and control (16). Hence, the prevention and early diagnosis of somatization could play an important role in treating BD.

Blackford et al. investigated the effect of the cutaneous manifestations of BD on the quality of life and demonstrated that skin signs of BD, as well as mouth and genital ulcers caused the corruption of personal relationships (17). In the same line, the findings of the

present study indicated a relatively high prevalence of hostility, paranoia, and interpersonal sensitivity as the factors reflected in personal relationships. Although the women are more susceptible to psychosocial disorders, no statistically significant difference was found between the two genders, except for anxiety. Overall, anxiety is more prevalent in females with BD compared to the males, which might be due to the fact that men can cope with their disease better than women and, as a result feel less stress in their lives.

The psychological symptoms in BD could be aggravated by the illness itself or by the immunosuppressive drugs used during the treatment course. Also, it is suggested that these symptoms are secondary to the disease (18). Furthermore, these symptoms can interfere with the patients' healing process and quality of life; therefore, it is the physicians' duty to screen for these symptoms in the patients and refer them to the psychiatry service for further evaluation (19). In this way, they might prevent the progression of psychological problems of patients, decrease the relapse durations, and limit psychological symptoms from interfering with the treatment procedures in BD.

The limitations of the present research include lack of control group and cross-sectional design, hence other factors potentially affecting the patients' current mental status could not be evaluated.

CONCLUSION

The prevalence of psychological symptoms was remarkable in the patients with BD. Therefore, the physicians should monitor their patients with BD in order to detect the possible psychiatric disorders they might develop during their disease.

Acknowledgements

The authors appreciate the help and support of Research Improvement Center of Shiraz University of Medical Sciences and Ms. A. Keivanshekouh for improving English of the manuscript.

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