ORIGINAL ARTICLE

PREVALENCE AND FACTORS ASSOCIATED WITH PHOBIAS AMONG WOMEN

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Abstract

Objective: The present study is carried out to explore the factors associated with phobia, to compare the severity of phobias between cases (mentally ill women) and controls (never mentally ill) and to identify the factors predicting different types of phobias. Methods: A cross sectional study among female cases and controls is conducted. A sample of 150 female respondents including 30 cases and 120 controls is taken to assess the point prevalence of different types of phobias. The Social Phobia Inventory (SPIN) questionnaire was used to identify social phobia on a very severe, severe, moderate, mild and no phobia scale. Pearson chi square and spearman's rank correlation was applied to assess the associations among different factors and various types of phobias. Results: The most common phobia among the population was Agrizoophobia (93%) followed by Agoraphobia (81%) and Taphophobia (74%). Among cases, age is was associated with Agoraphobia and Acrophobia, marital status of the respondent was associated with Agoraphobia and Acrophobia, marital status of father is associated with social phobia and Aichmophobia, traumatic event was associated with Mysophobia while family income was associated with Acrophobia and Aichmophobia. Age and Agoraphobia, and marital status and Acrophobia show significant results among controls. Multiple discriminant Analysis demonstrated that among cases, age was the best predictor in predicting Agoraphobia and Acrophobia, marital status of father was the best predictor in predicting Nosocomeophobia and traumatic event was the best predictor in predicting Mysophobia. Conclusion: Severe specific phobias are more prevalent among cases while controls suffer from mild specific phobias. Age, marital status of father and traumatic event in life are significant predictors for phobias. ASEAN Journal of Psychiatry, Vol. 15 (2): July – December 2014: 140-145.

Keywords: Phobia, Pearson Chi Square, Spearman's Rank Correlation, Discriminant Analysis, Traumatic Event

Introduction

A phobia is an intense but unrealistic fear that can interfere with the ability to socialize, work, or go about everyday life, brought on by an object, event or situation. A phobia is an irrational and excessive fear of an object or situation [1]. In most cases, the phobia involves a sense of fear of harm. Phobias are found to be the most common psychiatric disorder in the community, more common than major depression or alcohol abuse. The one month prevalence is between 4.0 and 11.1%, with the estimated prevalence in the United States being 6.2% [2]. Specific phobia is the fear of a particular situation or object, including anything from airplane travel to dentists, the specific phobias may also include concerns with losing control, panicking, and fainting which are the direct result of an encounter with the phobia [3]. Women are twice as likely to suffer from specific phobias

as men [4]. Thus, specific fears and phobias are heterogeneous with respect to sex and age distribution [5]. A study conducted on the university students reported that majority of the students (53.85%) have some kind of phobia. The highest type of phobia reported was phobia from snake (11.5%), followed by speaking in front of a crowd (9.2%) and the lowest were phobia of speed, dolls phobia, and ropes phobia [6]. Social phobia is a persistent and irrational fear of situations that may involve scrutiny or judgment by others, such as parties and other social events. Social phobia is one of the most common anxiety disorders [7] and is among the most common psychiatric illnesses [8]. The lifetime prevalence rate of social phobia ranges from 3-13% [9, 10, 11, 12], onset is typically in childhood or early adolescence [10, 13], a critical time period for developing social skills; rarely does social phobia develop in later adulthood ^[13]. According to a study, social phobia was higher in younger age groups and widows/widowers [14]. А previous negative social experience can also be a trigger to social phobia, [15, 16] perhaps particularly for individuals high in 'interpersonal sensitivity'. For around half of those diagnosed with social anxiety disorder, a specific traumatic or humiliating social event appears to be associated with the onset or worsening of the disorder [17], this kind of event appears to be particularly related to (performance) social specific phobia. Agoraphobia is the intense fear of feeling trapped and having a panic attack in a public place. Causes of agoraphobia are unknown but several risk factors have been identified, including having panic disorder or an alcohol or substance use disorder, experiencing a stressful life event, being female, or having a tendency to be nervous or anxious [18]. A study of the incidence of agoraphobia identified previous panic disorder as the strongest predictor; having other additional phobias was also a predictor [19]. Another study found individuals with subsequent chronic health conditions and individuals who were widowed or divorced/separated (as opposed to those who were married) at increased risk for agoraphobia [20]. People with social phobia had lower employment rates and household income compared to those

with no psychiatric morbidity [21]. Social phobia (12.7%) was the commonest phobia found followed by agoraphobia (8.6%), most common phobias observed being social phobia, agoraphobia and specific phobia [22]. According to a study, the lifetime prevalence of any specific phobia was 12.8%, with subtypes ranging in prevalence between 0.2% (vomiting, infections) and 5.0% (animals) [23]. Specific phobias that continue into adulthood generally become chronic if untreated. Persons with several phobias could not overcome phobia on their own, they may require some type of treatment. Current studies on the prevalence and factors associated with phobias among women, mentally ill and never mentally ill are lacking for Pakistan. Therefore, this study is carried out to find the prevalence and factors associated with phobias among mentally ill and never mentally ill women.

Methods

A cross sectional study is conducted among the female cases and controls. A sample of 150 women aged twenty years were taken. Data is collected using, simple random sampling design for cases while stratified, cluster and sampling systematic random designs respectively for controls. A well structured questionnaire, Social Phobia Inventory (SPIN) is used to gather the data. SPIN gives scores of 0 to 68. Each item is answered on a five-point scale. Items are scored as 0 (Not at all), 1 (A little bit), 2 (Somewhat), 3 (Very much), and 4 (Extremely), and summed to produce a final score. SPIN scores of 19 and over are considered to indicate clinical levels of social phobia [23].

The data was collected from cases and controls restricting their age group and social status according to the cases. Chi-square test of association, Spearman's rank correlation and Multiple Discriminant Analysis were used to analyze the data.

Results

The results of the study indicated that majority of the respondents were married, from low income group. Majority of the respondents were educated and were from the urban area. Prevalence And Factors Associated With Phobias Among Women ASEAN Journal of Psychiatry, Vol. 15 (2), July - December 2014: 140-145

Variables	Cases	Controls		
	(%, Severity of phobia)	(%, Severity of phobia)		
Traumatic Events	76.7	37.5		
Prevalence of phobias	46.67	26.67		
in adulthood				
Agoraphobia	36.67 (moderate)	27.5 (mild)		
Social phobia	30 (moderate)	28.33 (moderate)		
Agrizzophobia	83.33 (severe)	70 (severe)		
Nosocomeophobia	33.33 (severe)	29.17 (severe)		
Mysophobia	26.67 (severe)	-		
Acrophobia	60 (severe)	34.17 (mild)		
Aichmophobia	53.33 (severe)			
Taphophobia	33.33 (severe)	45.83 (mild)		
Thalassophobia	70 (severe)	-		

Table 1.	Percentage	distribution	of various	Phobias among	Cases and	Controls
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The cases have experienced more traumatic events (76.7%) in their lives as compared to controls (37.5%), the phobias were more prevalent in adulthood for cases (46.67%) as well as for controls (26.67%). Agoraphobia was moderate among cases (36.67%) as compared to mild in controls (27.5%), whereas social phobia was moderate in cases (30%) and controls (28.33%). Agrizzophobia was severe in both cases (83.33%) and controls (70%) while Nosocomeophobia was severe among cases (33.33%) as compared to controls (29.17%). Mysophobia was severe among cases (26.67%) whereas Acrophobia was severe among cases (60%) whereas mild in controls (34.17%). Aichmophobia was severe among cases (53.33%) while Taphophobia was severe (33.33%) among cases whereas mild in controls (45.83%). Thalassophobia was severe among cases (70%) while majority of the controls (45%) do not suffer from this phobia (Table 1).

 Table 2. Chi Square Associations/Spearman's Rank Correlations of Cases

	Independent Variables					
Dependent Variables	Age	Marital Status	Family Income	Marital Status of Father	Marital Status of Mother	Traumatic Event
Agoraphobia	0.411*	0.633*				
Social phobia				0.593*	0.584*	
Mysophobia						0.614**
Acrophobia	-0.584*	0.613*	-0.460*			
Aichmophobia			-0.651**		0.556*	

* Correlation is significant at 0.05 level (two-tailed test)

** Correlation significant at 0.01 level (two-tailed test).

Among cases, age and marital status of respondents were significantly associated with Agoraphobia and Acrophobia, family income was significantly associated with Acrophobia and Aichmophobia, marital status of father and marital status of mother was significantly associated with Social phobia, marital status of mother was significantly associated with Aichmophobia and traumatic event was significantly associated with Mysophobia (Table 2).

	Independent variables		
Dependent variables	Age	Marital status	
Agoraphobia	0.380**		
Acrophobia		0.444*	

 Table 3. Chi Square Associations/Spearman's Rank Correlations of Controls

* Correlation is significant at 0.05 level (two-tailed test) ** Correlation is significant at 0.01 level (two-tailed test).

Among controls, age was significantly associated with Agoraphobia and marital status was significantly associated with Acrophobia.

To analyze variables predicting different types of phobias among cases, discriminant analysis applied was (Table 3). То predict Agoraphobia, predictor variables taken were age. marital status. family income, qualification, family system, family background, marital status of father, marital status of mother, traumatic event and age period in which a respondent experienced any traumatic event. Stepwise Discriminant analysis demonstrated that Age was the best predictor for Agoraphobia and Acrophobia, marital status of father was the best predictor for Nosocomeophobia and Traumatic event was the best predictor for Mysophobia. The discrimination for predicting models Agoraphobia, Acrophobia, Nosocomeophobia and Mysophobia were as follows: -D (Agoraphobia) = 1.396 Age - 2.931

D (Nosocomeophobia) = 1.564 Marital status of father – 2.293

- D (Mysophobia) = 1.862 Traumatic event 2.483
- D (Acrophobia) = 1.404 Age 2.948.

Discussion

In this study, the point prevalence rates of different phobias were assessed, the prevalence of Agoraphobia was 83% among cases and 80% among controls, and the prevalence of social phobia was 77% among and 61% among controls. cases The prevalence of Agrizoophobia was 97% among cases and 92% among controls and the prevalence of Nosocomeophobia was 50% among cases and 38% among controls. The prevalence of Mysophobia was73% among cases and 53% among controls and the

prevalence of Ablutophobia was 43% among cases and 16% among controls. The prevalence of Nosocomeophobia was 80% among cases and 66% among controls and the prevalence of Aichmophobia was 87% among cases and 44% among controls. The prevalence of Taphophobia was 73% among cases and 74% among controls and the prevalence of Thalassophobia was 80% among cases and 55% among controls. The highest type of phobia reported in the current study was Agrizoophobia followed by Agoraphobia, which is in line with the studies conducted by Al-Naggar (2012) and Bener (2011).According to this current study, a previous negative social experience can trigger the Mysophobia while some studies [15, 16] demonstrated that previous negative social experience can be a trigger to social phobia, perhaps particularly for individuals high in 'interpersonal sensitivity'. This current study suggests that age is the best predictor of Agoraphobia and Acrophobia, marital status of father is the best predictor of Nosocomeophobia and traumatic event in life is the best predictor of Mysophobia. A study by Bienvenu (2006) that explored the incidence of agoraphobia identified previous panic disorder as the strongest predictor for agoraphobia and having additional phobias also predicted agoraphobia.

Conclusion

Severe specific phobias were more prevalent among cases while controls suffered from mild specific phobias. The associations between age and Agoraphobia, and marital status and Acrophobia were observed respectively. Age was a significant predictor in predicting Agoraphobia and Acrophobia, marital status of father was a significant predictor in predicting Nosocomeophobia and traumatic event was a significant predictor for Mysophobia.

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