

Relationship between social support and self-hardiness among breast cancer women in Nasiriyah, Iraq

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Abstract

Objective: To assess the role of social support in predicting self-hardiness among women having breast cancer.

Method: The descriptive correlational study was conducted at the Oncology Centre, Nasiriyah, Iraq, from August 3 to September 22, 2022, and comprised women receiving treatment for breast cancer. Data was collected using a questionnaire designed in the light of the Multidimensional Scale of Perceived Social Support, which was found reliable on the basis of a pilot study. Data was analysed using SPSS 20.

Results: There were 150 women with mean age 50.4 ± 11.18 years. Of them, 135(90%) were married, 113(75.3%) were unemployed, 90(60%) were living in rural areas, and 89(59.3%) had low socioeconomic status. Overall, 108(72%) patients reported they received little social support. Self-hardiness significantly differed in relation to marital status (p=0.021), place of residence (p=0.003) and income level (p=0.005). Social support positively correlated with self-hardiness (p=0.000).

Conclusion: Social support was found to be a predictor of increased self-hardiness that enhances resilience and enables patients to deal with one of the most devastating illnesses of modern times.

Keywords: Cancer, Breast, Neoplasms, Counselling. DOI: https://doi.org/10.47391/JPMA.IQ-02

Introduction

With 23% of the 1.1 million new cases identified each year, breast cancer (BC) is the most common type of cancer among women globally¹. Additionally, it is the leading cause of cancer-related deaths globally, with low-resource countries recording the highest mortality rates². About 4.4 million women diagnosed with BC in the past 5 years are still alive.3 A BC woman suffers from psychological instability, which causes anxiety and discomfort4. Psychosocial responses to somatic disorders vary widely from person to person, and is a manifestation of the close relationship between the body and the soul, and how each impact gets influenced by the other⁵. A wide range of emotions and stress are likely to be felt by cancer patients and their families. Every cancer patient worries about dying, failing to achieve their goals in life, losing their creativity and confidence, changing their social roles and way of life, and running into financial trouble. Every cancer patient feels the impact of situations like this immediately⁶. Social ties can help people cope with the disease. The process gets hindered if social reactions are unfavourable and anti-disease, but social support facilitates cognitive and stressful events in addition to helping patients adjust

to their environments⁷. Social support entails someone offering assistance and encouragement, particularly to a specific person. Some studies suggest that social support may have a moderating effect in how the coping style is affected. Social support would undoubtedly help cancer patients if it helped them cope with major life stresses and prevent the development of mood disorders. Social support is required to meet the demand for psychosocial security, to lessen the amount of psychological anguish produced by the intensity of disease-related events, and to effectively eliminate symptoms of psychosocial difficulties⁸. The current study was planned to assess the role of social support in predicting self-hardiness among BC women.

Patients and Methods

The descriptive correlational study was conducted at the Oncology Centre, Nasiriyah, Iraq, from August 3 to September 22·2022. Approval was obtained from the ethics review committees of Middle Technical University, Iraq, and Dhi Qar University, Iraq. The sample was raised randomly by purposive sampling technique. The sample size was based on approximately 10% of the total monthly reviews, and according to a previous published study. The inclusion criteria were women diagnosed with BC for last 6 months or longer with different levels of education and those who agreed to participate in the study. Women who did not agree to be a part of the study were excluded. All the study participants were explained the objectives and of the study. The consent of the study participants was obtained, after explaining the objectives which were for promoting science. All the

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participants were assured of confidentiality of the data acquired. Data was collected using a questionnaire in the Arabic language (Annexure) and the participants also answered in Arabic. These answers were translated into English by a language expert. The questionnaire included sociodemographic data. Another questionnaire was designed based on the Multidimensional Scale of Perceived Social Support (MSPSS). The self-report tool subjectively assessed social support through MSPSS-12 items measured on a 4-point Likert scale, ranging from never to always. Cronbach's alpha was 0.83. Besides, a self-hardiness questionnaire was developed by the researchers and was validated by a panel of experts, with Cronbach's alpha value 0.89.

Table-1: Demographic data.

Variables	Rating	n (%)
Mean Age (years)	50.04±11.188	
	<30	9 (6.0)
	30-39	15 (10.0)
	40-49	36 (24.0)
	50-59	60 (40.0)
	≥60	30 (20.0)
Social status	Single	12 (8.0)
	Married	135 (90.0)
	Divorced	3 (2.0)
Occupation	Unemployment	113 (75.3)
	Employment	37 (24.7)
Residents	Urban	60 (40.0)
	Rural	90 (60.0)
Income	Not enough	89 (59.3)
	Partially enough	32 (21.3)
	Enough	29 (19.3)

^{**} indicates a highly significant difference

Data was analysed using SPSS 20. Frequencies and percentages as well as mean and standard deviation values were used, as appropriate, to express data. Analysis of variance (ANOVA) test was used to compare the continuous variables. Statistical significance was defined as two-tailed $p \le 0.05$.

Results

There were 150 women with mean age 50.4±11.18 years. Of them, 135(90%) were married, 113(75.3%) were unemployed, 90(60%) were living in rural areas, and 89(59.3%) had low socioeconomic status (Table 1). Overall, 108(72%) patients reported they received little social support (Table 2), and 68(45.3%) had low self-hardness (Table 3).

Self-hardiness significantly differed in relation to marital status (p=0.021), place of residence (p=0.003) and income level (p=0.005), but was not significantly related to age or gender (Table 4). Social support positively correlated with self-hardiness (p=0.001) (Table 5). Liner regression also showed significant association between social support and self-hardiness (Table 6).

Table-2: Level of social support reported by women with breast cancer (n=150).

Social support	n (%)
Poor	108 (72.0)
Moderate	30 (20.0)
Good	12 (8.0)
Total	150 (100.0)

Table-3: Level of self-hardiness among women with breast cancer (n=150).

Social support	n (%)
Low	68 (45.3)
Moderate	20 (13.3)
High	62 (41.3)
Total	150 (100.0)

Table-5: Association of self-hardiness with socio-demographic characteristics (n=150).

Self-hardness	Source of variance	Sum of Squares	d.f	Mean Square	F	Sig.
Age	Between Groups	0.555	2	0.277	.227	0.798
	Within Groups	179.985	147	1.224		
	Total	180.540	149			
Marital Status	Between Groups	0.410	2	0.205	2.145	0.021
	Within Groups	14.050	147	0.096		
	Total	14.460	149			0
Occupation	Between Groups	0.244	2	0.122	.648	.524
	Within Groups	27.630	147	0.188		
	Total	27.873	149			
Residents	Between Groups	0.050	2	0.025	.102	0.003
	Within Groups	35.950	147	0.245		
	Total	36.000	149			
Income	Between Groups	2.837	2	1.419	2.287	0.005
	Within Groups	91.163	147	0.620		
	Total	94.000	149			

Table-5: Correlation between social support and self-hardiness.

	Social support	
Self-hardiness	Spearman's rho	.640**
	Sig.(2-tailed)	.000
	n	150

Table-6: : Linear regression	between social	I support and	self-hardiness.
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Model	Sum of Squares	d.f	Mean Square	F	Sig.
Regression	45.891	1	45.891	80.982	.000
Residual	83.869	148	.567		
Total	129.760	149			

Annexure:	
Part I: Socio-demographic Information	
1. Age	years
2. Economic	
High	
Moderate	
Low	
3. Social state	
Single	
Married	
Divorced	
Widower	
4. Education level	
Unable to read and write	
Read and write	
Elementary school	
Middle school	
Secondary school	
College and above	
5. Occupation	
Employee	
Housewife	
Retired	
Unemployment	
6. Duration of breast cancer	years
7. History of family members with cancer	
Yes	
No	

	عزيزي المريض/
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الجزء الثاني: المساندة الاجتماعية:

اولا: المساندة من قبل العائلة

ت	الفقر ات	دائما	أحيانا	أبدا
1	يستمع إلى أفراد عائلتي عن رضا عندما أرغب في الحديث معه			
2	أشعر بارتياح عندما أناقش مخاوفي حول حالتي مع أفراد أسرتي			
	يتجاهل أفراد عائلتي حالتي الصحية			
4	يتفهم أفراد عائلتي ما أعاني منه			
5	ينبغي على أن أتظاهر أمام أفراد عائلتي بان كل شيء أفضل مما هو عليه			
6	أشعر بالكثير من المودة والعطف من أفراد عائلتي			
7	غالباً ما أجد التقدير من أفراد عائلتي عند محاولتي التغلب على			
8	يقوم أفراد عائلتي بمهامي عندما لا أستطيع أداءها			

ت	الْفقر ات	دائما	أحيانا	أبدا
1	أشعر بخوف من المستقبل			
2	أصبحت أجد صعوبة في إنجاز أعمالي بعد إصابتي بالسرطان			
3	اعتقد إن لحياتي هدفا ومعنى أعيش لأجله			
4	اعتقد إن الحياة كفاح وعمل وليست حظا وفرص			
5	تكمن قيمة الحياة في ولاء الفرد لمبادئه وقيمه			
6	أشعر بالقلق والخوف من تغيرات الحياة			
7	أشعر بأنه لا قيمة لحياتي بعد إصابتي بهذا المرض			
8	أبادر في مواجهة المشكلات لأني أثق في قدر تي على حلها			
9	أهتم بالتغيير في نمط حياتي لكي أصل إلى النجاح			
10	نجاحي في أمور حياتي يعتمد على جهدي وليس على الصدفة			
•	والحظ			
11	أتمسك بمبادئ وقيمي وأحافظ عليها على الرغم من مرضي			
12	عندما أواجه أية مشكلة أحس بالخوف			
13	أكون مستعدا وبكل جدارة لما يحدث في حياتي من أحدات وتغيرات			
14	أعَقد أن متعة الحياة تكمن في قدرة الفرد على مواجهة تحدياتها			
15	اعتقد أن الكثير مما يحدث لي هو نتيجة تخطيطي			
16	أتحمل مسؤولية القرارات التي أتخذها			
17	أبادر بالمشاركة في النشاطات التي تخدم مجتمعي و لا تمنعني			
	حالتي المرضية من ذلك			
18	أشعر بأن قدرتي على التركيز أصبحت ضعيفة بعد إصابتي بمرض			
	السرطان			
19	أتصرف بشؤون حياتي بحرية واستقلال عن الأخرين			
20	أستطيع السيطرة على نفسي في مواقف الحزن والفشل			
21	اضحك بسهولة على الرغم من معاناتي مع المرض			
21	اضحك بسهولة على الرغم من معاناتي مع المرض			

ثالثًا: المساندة من قبل الأصدقاء

أبدا	أحيانا	دائما	الفقرات	ت
			يستمع إلي أصدقائي عن رضا عندما أرغب الحديث معهم	
			أشعر بارتياح عندما أناقش مخاوفي حول حالتي مع أصدقائي	
			أحيانا ما يتجاهل أصدقائي مخاوفي ولا يعيروني أي اهتمام	3
			يبدو لي أن أصدقائي يتقهمون ما أمر به	4
			ينبغي عليَ أن أتظاهر أمام أصدقائي بان كل شيء أفضل مما هو عليه	5
			أشعر بالكثير من المودة والعطف من أصدقائي	6
			غالباً ما أجد التقدير من أصدقائي عند محاولتي التغلب على مشاكلي	7
			يقوم أصدقاني بأداء مهامي عندما أعجز عن أداءها	8

Discussion

The age of the subjects in the current study ranged between 50-59 years. The rate of chemotherapy treatment is generally higher in women than in men^{11,12}, which is indicative of the fact that women are more prone than men to get BC. Data indicated that the majority of the subjects were married, had low socioeconomic status, resided in rural areas, and generally bemoaned the lack of resources. These findings were largely consistent with those of earlier studies^{13,14}.

Social support aids cancer patients in managing their psychological symptoms, and as long as they value it, they view it as crucial to their wellbeing. The two causes of their sorrow are pessimism as they show poor response to treatment and have limited hope of finding a remedy for the illness¹⁵.

The absence of various types of social support¹⁶ activates the negative consequences of unpleasant events and conditions to which a person is exposed, which impairs the patient's health. This is due to the fact that patients recognise how important it is for their network of social interactions, including family, friends, doctors and nurses, to support them in getting treatment, and to hasten the stages of their recovery.

The findings of a study in Pakistan were comparable to those of the current one, recommending that individuals with cancer should undergo rehabilitation, and both the public and medical professionals should be concerned about their mental health¹⁷.

The current results showed that self-hardiness differed according to the patients' marital status, place of residence, and income, but not according to their age and occupation. Even though they have a substantial impact on patient care and health monitoring, the nurse and the doctor are frequently mentioned in discussions and are associated in the minds of cancer patients. This can be described in terms of the kinds of psychological reasons produced by the patient's own social support system. The patient frequently has health-related anxiety, and frequently experiences hopelessness.

Social support can help people overcome their ailments, give them hope and optimism, and even briefly make them forget about their illnesses. Social support boosts optimism for the future, and this hope in turn serves to strengthen the patients' ability to deal with their diseases. This helps to improve the patients' ability to deal with their conditions psychologically, biologically and clinically. A study¹⁸ found that individuals with an active social network have stronger immunity than those without a network of close relationships. It has been

established that social support can improve adaptation to the disease, and that social support is adversely related to the earliest symptoms of cancer, like pain, exhaustion, cough, stress and depression¹⁹. The presence of the spouse's dimension of social support, along with other dimensions or sources of social support, like the patient's family and physician is crucial to the patient having an equal chance of recovery since both married and unmarried cancer patients have an equal chance of recovering. One of the most significant examples of this phenomenon is family solidarity, which means members of the patient's family at all levels can forge a solid social connection that makes up for the absence of a spouse or partner, much like how married and single people coexist in the same society and culture, and are consequently subject to the same influences^{20,21}.

According to the current study, social support has a considerable impact on the self-hardiness of BC patients, and there is a positive relationship between social support and toughness. These results suggest that low self-hardiness and low social support are correlated. This demonstrates that the level of social support BC patients receive has a positive correlation with their level of self-seriousness. This was corroborated by earlier studies²². The current results were also in line with a study²³, which found a connection between social support and outlook on life. Another study²⁴ discovered a significant link between the overall scores of social support and psychological toughness among BC patients.

To the best of our knowledge, the current study is the first to observe how people in Iraq support those with cancer. Moreover, a large sample size including almost all the BC patients attending a single cancer centre is a strength of the current study.

Conclusion

Social support was found to be a predictor of increased self-hardiness, which enhanced resilience among BC patients and enabled them to deal with one of the most devastating illnesses of modern times. The development of educational counselling, care and social support programmes for BC patients are necessary to rehabilitate the affected community.

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