The comparative study of quality of life among working women and homemakers taking care of psychiatric patients presenting in a tertiary care hospital, Patna

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ABSTRACT

Background: In India, women are twice more likely to become caregivers than men. The quality of life (QOL) is the ability level to which an individual is healthy and able to enjoy life. Aims and Objective: To assess and compare QOL among homemaker women and working women giving care to patients suffering from psychiatric illnesses. Materials and Methods: This hospital-based, cross-sectional study was conducted on the caregivers who were recruited from out-door patient department of Psychiatry department of Patna Medical College and Hospital, Patna from January 1, 2021, to June 31, 2021. Women who were 30–55 years old, working or homemakers, and who were taking care of psychiatric patients diagnosed with Schizophrenia and Bipolar affective disorder of either sex. Caregivers were first degree relatives of patients. The estimated sample size was 140 (Group 1 = 70 homemaker women and Group 2 = 70 working women). Sociodemographic data were recorded using Sociodemographic Performa 1 and QOL was assessed using World Health Organization (WHO)-QoL-BREF. Results: WHO-QOL domain mean score for physical, psychological, social, and environmental of Group 1 was 12.42, 11.60, 12.24, 12.62 whereas 14.46, 13.28, 11.28, and 12.28 of Group 2 with statistically significant difference (P<0.05). Conclusion: In physical and psychological domain of QoL, working women scores were better than homemakers. QOL in working women caregivers was better than homemakers’ caregivers in social and environmental domains but statistically non-significant.

Key words: Quality of life index; Caregiver; World Health Organization-quality of life-BREF; Working women; Homemaker

INTRODUCTION

In India, the role of the family has been vital in taking care of persons suffering from severe mental disorder. It includes supervising medications, arranging for follow-up, bringing the patient for inpatient care, staying with the patient, and providing financial support. According to a latest survey, every sixth Indian requires mental health help and it's more in 30–49 years of age group or above 60; among low-income strata and urban areas. The prevalence of psychiatric disorder according to gender has been found almost similar between lifetime. In male it is 1.5% and in females, it stands to be around 1.3%.
Care-giver is defined as any person including parents and other family members who with or without payment provides care, support, or assistance to a person with a disability. Caregiver is a relative who stays with the patient, involved in looking after patient’s daily needs, supervising medication, and accompanies him/her to the hospital. All over the world, women are the predominant providers of informal care for family members with mental illness; and they may be working women or homemakers. Working women earn the salary or wages through regular employment outside the home and easily juggle their career with raising children and taking care of various domestic chores. Homemakers, besides managing the household chores also take care of the sick and elderly. With the advancement of treatment modalities for the management of psychiatric patients, there is an increase in trend toward home-based treatment. The tendency of caregiver is to get an early discharge of mentally ill patients even if they need hospitalization for acute illness and treat them at home.

In India, women are twice more likely to become caregivers than men. Despite emergence of men as caregivers, researchers have not taken into account this trend and continue to maintain its traditional focus on female caregivers. Yee and Schulz examined gender differences on caregiving and found that women spend more time on caregiving than men, which interfered with their work and social life to a greater extent.

Stress is known as body reaction to any challenge and demand. Hans Selye has described three stages that the body utilizes to react to any stressors called General Adaptation Syndrome (GAS). They are three stages of GAS: First Stage: Alarm stage which provides burst of energy. Second stage: Known as resistance stage the body utilizes to resist or adapt to the stress. Third stage: Known as the exhaustion stage because energy is depleted. There are external and internal factors for stress. External stress comes from outside: Our physical environment, relationship with others, job, etc., and internal stress comes from within, which determine our body’s ability to respond and deal with stress.

The quality of life (QOL) has been defined by World Health Organization (WHO) as an perception of an individual’s about their position in life related to content of their value system and culture in which they live and its relation to their goals, expectations, standards, and concerns. The QOL is better in working women as mostly working women don’t abandon their caregiving responsibilities because of employment instead they cope to the best of their abilities with the combined pressures of caring for a loved one the toll that caregiving takes is not financial.

Hence, the present study is aimed at assessing and comparing QOL among working women and homemaker women taking care of patients diagnosed with schizophrenia and bipolar affective disorder (BAPD).

Aims and Objectives
To assess and compare quality of life among working women and homemaker women taking care of patients diagnosed with schizophrenia and bipolar affective disorder.

Materials and Methods
This was a hospital based, cross-sectional study. The caregivers were recruited from out-door patient department (OPD) of Psychiatry of Patna Medical College and Hospital, Patna according to the following criteria. This study was conducted from January 1, 2021 to June 31, 2021.

Inclusion criteria
1. Female participants who were either working or homemakers in the age group of 30–55 years and taking care of psychiatric patients diagnosed with Schizophrenia and BAPD of either sex brought to the psychiatry OPD
2. Caregiver (Mentally and physically healthy) who is a first-degree relative of the patient and staying with the patient at least for the past 2 years
3. Caregivers who give written informed valid consent.

Exclusion criteria
1. Caregivers with significant medical, neurological, and endocrinological disorders
2. Pregnant women
3. Caregivers with intellectual disability, mental illness, or substance use disorder.

Sample size estimation
Latest data from India reported moderate to severe levels of caregiver burden in 62% of the caregivers of psychiatric patients. Taking the effect size of 10%, at 5% error and 80% power of the study, the estimated sample size is 135 using the formula:

\[ n = \left( Z_{\alpha/2} + Z_\beta \right) \times P \times Q \times 2/d^2, \]

were
\[ n – Sample size \]
\[ Z_{\alpha/2} - Z \text{ value at } 5\% \text{ error (1.96)} \]
\[ P \text{ is the average prevalence of the character, } Q \text{ is 1-P and } d \text{ is the effect size.} \]

So, by rounding off, we calculated the total sample size to be 140 and formed two groups. 70 caregivers were homemakers and 70 were working women.
Study design
Diagnosis of psychiatric illness was made as per ICD-10 criteria. A brief explanation about the study was given to the caregivers and informed consent was taken. The patients and caregivers identification data about socio-demographic status were recorded in Annexure-I and II. For assessment of caregivers' burden, their coping strategies in handling stress and impact on QOL subjects were administered “Caregiver Burden Questionnaire” (Annexure-III), “Coping Strategies Inventory” (Annexure-IV), and “WHO QoL-BREF” (Annexure-V). The study was conducted as per the good clinical practice guidelines and the declaration of Helsinki's Geneva with an approval of college ethical committee.

Instruments
1. Socio-Demographic Proforma (Annexure I and II): A Semi-structured proforma was used to obtain information about the participants and gather socio-demographic details including age, marital status, gender, educational status, economic status, history of substance use disorder, and any psychiatric illness
2. WHO QoL BREF: (Annexure V) The item scores range from 1 to 5. Because the numbers of items are different for each domain, the domain scores are calculated by multiplying the average of the scores of all the items in the domain by the same factor of 4. The domain scores would be having the same range starting from 4 to 20. Transformation of domain scores to a 0-to-100-point scale was made by using the WHO-QoL transformation table. The scale has been shown to have good discriminant validity, sound content validity and good test-retest reliability at several international WHO-QoL centers.

RESULTS
Table 1 shows the comparison of socio-demographic data of Group 1 and Group 2 caregivers. No significant difference was found between the two groups when compared in relation to age group, relation and marital status.

Table 2 shows the diagnostic classification of the psychiatric illness of patients in both the groups as per ICD 10. F20 (Schizophrenia) and F31 (BAPD) was reported among 40%, 60% and 41.43%, 58.57% of the subjects among Group 1 and Group 2, respectively. Overall, the study comprised of 57 Schizophrenic patients (40.71%) and 83 (59.29%) BAPD patients. The difference between the groups was statistically non-significant at P>0.05.

Table 3, shows the total time spent by the caregiver on psychiatry patient amongst groups. 1–8, 9–14, >14–19 and >19–24 h were spent by 25.71%, 57.14%, 12.86%, 4.29% and 60%, 38.57%, 1.43%, 0% of the caregivers in Group 1 and Group 2, respectively. In conclusion, most of the caregivers in group 1 (57.14%) spent 9–14 h whereas caregivers in group spent 1–8 h (60%) with statistically significant differences (χ²=6.98, P=0.02).

Table 4 shows the WHO-QOL comparison among Group 1 and Group 2. Mean physical, psychological, social and environmental was 12.42, 11.60, 12.24, 12.62 and 14.46, 13.28, 11.28, 12.28 of the caregivers in Group 1 and Group 2, respectively. When mean physical (χ²=4.11, P=0.03), psychological (χ²=3.42, P=0.04) was compared among the two groups, the difference was found to be statistically significant as P<0.05. QOL in Group 2 caregivers (Working Women) is better than Group 1 caregivers (Homemakers) in physical and psychological domains.

However, QOL in Group 1 caregivers (Homemakers) is better than Group 2 caregivers (Working Women) in social and environmental domains but statistically non-significant.

DISCUSSION
The present study was a hospital based, cross-sectional study. The total of n=140 caregivers were enrolled. They were further divided into two groups, Group 1 (Homemaker women) and Group 2 (Working women) of 70 caregivers each and were in the age group of 30–55 years. People with mental illness (PMI) comprised of both schizophrenia and BAPD who reported to Psychiatry OPD of Government Medical College and Rajindra Hospital, Patiala accompanied by their caregivers.

In the present study, approximately 55% of the caregivers were mothers of PMI while 31% were wives. Aggarwal et al.,17 also reported similar findings, who reported majority of the caregivers to be married 76% but only 36% of PMI were taken care by their spouses. A study by Mohammed and Ghaith (2018)19 revealed that more than two-fifths of caregivers were parents, less than one-third were son and daughter, one-fourth were spouses and only 4% of them were siblings. The higher percentages of caregivers being parents can be explained due to fact that an early onset of mental illness, which hinders with the patient prospects of an early marriage. So, parents become the natural caregivers who bring their children for treatment. The Indian societal values are such that if a person becomes mentally ill, spouses might leave him, but parents rarely abandon their children.
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Present study also revealed that 57.14% (n=40) caregivers in Group 1 spent 9-14 hours per day in care giving. However, in Group 2, 60% spent 1-8 hours per day in caregiving. The difference in time spent in caregiving role was statistically significant among the groups. The same study founded that the amount of caring hours for patients were more than 12 hours per day for 55% of the caregivers. 58% of them were not providing care for other members of the family. 51% of the caregivers were having other persons who were helping them in caring their mentally ill patients. This high time requirement may be because of the chronic nature and severity of symptoms that characterize mental illness, which require constant care and supervision.
CONCLUSION

In physical and psychological domain of QOL, working scores were better than homemakers. QOL in working women caregivers was better than homemakers caregivers in social and environmental domains but statistically non-significant.

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REFERENCES

12. Center for Substance Abuse Treatment. Brief Interventions and...
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Brief Therapies for Substance Abuse. Rockville, MD: Substance Abuse and Mental Health Services Administration (US); 1999. (Treatment Improvement Protocol (TIP) Series, No. 34.) Chapter 7 Brief Psychodynamic Therapy; 1999.


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