Caregiver’s Burden on Patients with Neurological Disorders

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Abstract: Caregiver burden refers to considerable stressors who have been found to have worse emotional well-being, more difficulty with care giving tasks (Cochrane JJ, 2007) and more distress in general. The partner has an increased responsibility to provide support (which may be perceived as stressful), receiving support is particularly relevant for partners. The study was carried out in the Neurology out-patient setting in a tertiary care hospital. Thirty consecutive patients receiving in-patient care were included in the study. The burden of care can lead to a breakdown among the care givers themselves. The patients experience long-term impairments in physical, psychosocial, and cognitive function, and rely mainly on the caregivers for practical and emotional support concerning activities of daily living. The three studies by Halm and colleagues (Halm & Bakas, 2007; Halm et al., 2006; Halm et al., 2007) indicated that male sex (or patient female sex) was associated with worse total caregiver burden. This was specifically for tasks such as personal care, mobility assistance and medical treatment, which may reflect generational role expectations. However, Halm and Bakas (2007) found female sex was an independent predictor of worse caregiver outcomes, highlighting the vulnerability of associations according to the method of conceptualizing and measuring caregiving factors. Only Stolarik et al (2000) identified age as a risk factor for caregiver burden; partners aged 31-50 and 71-80 had the highest caregiver burden, revealing both younger and older age to increase risk. The current study aims at assessment of the depression and anxiety levels among the care givers of the patients with neurological conditions. It is important to assess the mental health status and attend to the needs of care givers. Not only do the care givers impact their own health and well being, their ill health impacts the care of the patients as well.

2. Objectives

- Assess the level of burden among caregivers of patients with neurological conditions.
- Associate the level of burden among caregivers with selected demographic variables.

3. Methodology

The study was carried out in the Neurology out-patient setting in a tertiary care hospital. A total of 43 consecutive pairs of subjects and their principal caregivers were originally enrolled in the study. A principal caregiver was defined as any person who, without being a professional or belonging to a social support network, usually lives with the patient and, in some way, is directly implicated in the patient’s care or is directly affected by the patient’s health problem.” All principal caregiver willing to participate in the study and giving informed consent were included in the study.

Eight of these pairs did not return the questionnaires, while another 5 were excluded because they (n = 3 patients, n = 2 caregivers) failed to complete them. Therefore, the final study participants were 30 pairs of caregivers and neuro out patients. All the caregivers accompanied the patients. All data were collected during scheduled time periods.

Socio-demographic questionnaire were collected from both of patients and of caregivers, namely patient’s age, gender and diagnosis, caregiver’s age, sex, education, and

Keywords: Caregivers, burden, Anxiety, Depression.

1. Introduction

Caregivers play an important role in supporting people with illness either acute or chronic. A larger number of studies have identified risk factors for greater caregiver burden. The importance of addressing the burden of care givers involved in care of patients with neurological disorders has been recommended. In spite of neurological conditions being one of the most common causes of disability very few studies have addressed the impact of these conditions on the care givers in Indian setting. It has been well documented that the family members are affected by the patient’s illness from the outset. This burden of care can lead to a breakdown among the care givers themselves. The patients experience long-term impairments in physical, psychosocial, and cognitive function, and rely mainly on the caregivers for practical and emotional support concerning activities of daily living. The three studies by Halm and colleagues (Halm & Bakas, 2007; Halm et al., 2006; Halm et al., 2007) indicated that male sex (or patient female sex) was associated with worse total caregiver burden. This was specifically for tasks such as personal care, mobility assistance and medical treatment, which may reflect generational role expectations. However, Halm and Bakas (2007) found female sex was an independent predictor of worse caregiver outcomes, highlighting the vulnerability of associations according to the method of conceptualizing and measuring caregiving factors. Only Stolarik et al (2000) identified age as a risk factor for caregiver burden; partners aged 31-50 and 71-80 had the highest caregiver burden, revealing both younger and older age to increase risk. The current study aims at assessment of the depression and anxiety levels among the care givers of the patients with neurological conditions. It is important to assess the mental health status and attend to the needs of care givers. Not only do the care givers impact their own health and well being, their ill health impacts the care of the patients as well.

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Socio-demographic questionnaire were collected from both of patients and of caregivers, namely patient’s age, gender and diagnosis, caregiver’s age, sex, education, and
relationship to the patient, and the presence of other persons who help care for the patient. The investigator explained the study to the patients and caregivers (reassuring them that their privacy would be strictly protected) and the questionnaires were administered to the participants. The self-report questionnaires were compiled in the waiting room. Caregiver Burden Inventory (CBI) is a 24-item multi-dimensional questionnaire in which 5 subscales explore 5 different dimensions of caregiver burden: it consisted of objective burden (which corresponds to the amount of time devoted to caregiving): the burden on the caregiver due to shortage of time (items 1–5); developmental burden: the caregiver’s sense of being left behind, unable to enjoy the same expectations and opportunities as his or her peers (items 6–10); physical burden: feelings of fatigue and chronic health problems (items 11–14); social burden, which results from a perceived conflict of roles (items 15–19); emotional burden, which originates from awareness of negative feelings towards the patient that can be induced by the patient’s bizarre and unpredictable behaviour (items 20–24). Subjects are asked to rate each item on a 5-point Likert scale ranging from 0 (not at all disruptive) to 4 (very disruptive). The global score is obtained by summing the scores of each subscale; higher scores correspond to greater levels of perceived burden.

The anxiety and depression levels of these caregivers were assessed using the Hospital Anxiety and Depression Scale (HADS). HADS is a self-report questionnaire commonly used to assess levels of anxiety and depression. It was developed by Zigmond et al in 1983. The HADS comprises statements which the patient rates using SPSS ver 20.0. The level of statistical significance was calculated for correlation coefficients. The data was imputed and analysed for socio demographic variables and patient and caregiver measures, and Student’s t-test for comparisons. Possible correlations between variables were tested using Pearson’s correlation coefficients. The data was imputed and analysed using SPSS ver 20.0. The level of statistical significance was kept at p < .05.

4. Results

We recruited the care givers of 30 consecutive in-patients receiving out-patient care in the neurology ward of a tertiary care hospital. The sample included 16 male and 14 female care givers. Majority (89%) was married and employed (76%). Around 65% of the subjects were literate. Around 64% of the subjects from a rural background and almost three fourth belonged to lower socio-economic status. Fifty percent of the care givers were also the primary earning members of the family as well. All the caregivers that fulfilled the inclusion criteria agreed to participate in the study. The mean age of the participants was 46.23±6.52 years. The mean age of the female caregivers was 42.04±5.54, while that of male caregivers was 47.21±4.32. There was no significant difference between the male and female caregivers (t=3.12, p=0.19). Twenty four percent of the caregivers were diagnosed with significant anxiety features. It included mild (16%), moderate (6%), and severe (2%). Eighteen percent of the caregivers met the criteria for depression using HADS-Depression scale. It included mild (14%), moderate (2%), and severe (2%). The mean anxiety and depression scores were 8.18±2.76 and 8.21±2.13 respectively. Male and female caregivers differed significantly on the total HADS score as well as the Anxiety and Depression subscale scores of HADS. Study found the prevalence of anxiety disorders was significantly higher in female caregivers than in males (26.1 vs. 10.9%; p = 0.04) as assessed by HADS.

The total score of each CBI subscale (Time Dependence, developmental, physical, social, emotional) was calculated and expressed as a relative percentage of the total CBI score: The 20 caregivers interviewed scored 54% in the Time Dependence burden; 34%, in the developmental burden; 21% in the physical burden, 16% in the social burden and 8% in the emotional burden. The table shows that the Time Dependence domain has the highest occurrence of burden based upon the aggregation of the scores from all study participants. Gender differences were also examined: independent samples t-test analysis failed to reveal any statistical difference between caregiver burden perceived by men, mean value 29.51 SD 13.50 and by women, mean value 27.18 (SD 12.94) at the level of p = 0.72.

The relationship between the HADS scores and socio demographic characteristics of the caregivers showed that the statistically significant correlations were found between the main study variables using Pearson’s correlation coefficients. The presence of depressive symptoms (HADS) in caregivers showed a strong positive correlation with the caregivers’ level of burden (CBI) (r = 0.978, p = 0.000), while presence of anxiety symptoms correlated negatively with the caregivers’ level of burden (r = −0.472, p = 0.041). The multiple regression analyses did not identify any factors predictive of caregiver burden, either for the single domains of the CBI or for the total CBI score.

5. Nursing Implications

Quality of care and the health of the care-recipient are of vital importance. Several implications can be drawn from the findings of the present research. First, psychological burden of care-givers of patients with neurological disorders can be acknowledged by the health and social services. Initiation of comprehensive nursing strategies that deals with coping process, problem-solving strategies in order to reduce the
carers’ distress. These coping strategies will help them to gain confidence that they care themselves as well as their partners also. The finding suggests that carers may benefit from efforts to mobilise their skills in coping strategies such as problem solving.

6. Conclusion

Care-giving is an exhausting task, and carers are reported to experience a very significant amount of strain. The study found high levels of emotional distress among caregivers, which is comparable to studies carried out in other parts of the world. Thus the well being of caregivers is important because the patients depend on them to uphold in the community.

References


Author Profile

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