VOLUME - 11, ISSUE - 02, FEBRUARY - 2022 • PRINT ISSN No. 2277 - 8160 • DOI : 10.36106/gjra **Original Research Paper Community Medicine** FAMILY BURDEN IN CARE GIVERS OF PATIENTS WITH CHRONIC PSYCHIATRY AND CHRONIC MEDICAL PATIENTS: A COMPARATIVE STUDY IN TERTIARY CARE HOSPITAL OF RAJASTHAN (MD Psychiatry) Senior Resident, Department of Psychiatry, SMS Medical Dr. Ashok Arora College, Jaipur (Rajasthan) India. MD Psychiatry) Senior Professor, Department of Psychiatry, SMS Medical Dr. I. D. Gupta College, Jaipur (Rajasthan) India. (MD Community Medicine) Assistant Professor, Department of Community Dr. G. S. Sisodia Medicine, NIMS Medical College, Jaipur (Rajasthan) India. (MD Community Medicine) Assistant Professor, Department of Community Dr. Lovesh Saini* Medicine, SMS Medical College, Jaipur (Rajasthan) India. *Corresponding Author (MD Community Medicine) Senior Medical Officer, Department of Dr. J.P. Pankaj Community Medicine, SMS Medical College, Jaipur (Rajasthan) India. Dr. Madhvi Senior Resident, Department of Community Medicine, SMS Medical College, Jaipur (Rajasthan) India. Dhamania (MD Community Medicine) Senior Professor, Department of Community Dr. Kusum Gaur Medicine, SMS Medical College, Jaipur (Rajasthan) India.

ABSTRACT BACKGROUND: Chronically ill patients need assistance or supervision in their daily activities often placing a major burden on caregivers who take care of patients, placing them at a great risk of mental and physical problems. The burden perceived by the caregivers is an important prognostic aspect which refers to daily difficulties and negative life events resulting from caring for or living with the ill member and can be said as physical, emotional and financial toll of providing care.

OBJECTIVES: This study aims to compare the family burden of caregivers of patients with chronic psychiatric disorders (schizophrenia and OCD) with that of chronic medical illnesses (Chronic Renal Failure CRF and Chronic Obstructive Pulmonary Disease COPD).

METHODS: This is a hospital based observational analytical study conducted on 120 care givers of 120 chronic patients consisting 60 from Psychiatry and 60 from Medicine OPD of SMS medical college and attached hospitals, Jaipur. For study, healthy caregivers in blood relation and spouse, residing for at least 2 years with patients of chronic psychiatric disorders and chronic medical illnesses were included. Modified Mini Scale was used to identify Psychiatric illnesses and Family Burden Interview Schedule (FBIS) was used to assess family burden. For comparison, either chi square test or unpaired 't test was used as test of significance.

RESULTS: Family burden was significantly higher in caregivers of chronic psychiatric illnesses in all the domains i.e. financial burden (t = 2.17 p = 0.032), family routine(t = 6.75 p = 0.00), family leisure's activity (t = 4.52, P = 0.00), family interactions (t = 5.07, p = 0.00), physical health (t = 2.45, p = 0.02), mental health (t = 2.98, p = 0.00) and subjective burden (t = 2.82, p = 0.01).

CONCLUSION: Caregiver burden was significantly higher in psychiatric illnesses compared to medical illnesses. Interventions to reduce caregiver burden better patient care facilities should be encouraged.

KEYWORDS : Family Burden, Caregivers, Family Burden Interview Schedule (FBIS), Modified Mini Scale.

INTRODUCTION-

The family constitutes a major support system in the continuing care of the mentally and psychically ill in the community. [2] Although many families show a strong resilience in caring for an ill relative, their share of physical and emotional distress cannot be ignored.[2] Further, the families of persons with chronic mental as well as physical disorders undergo considerable care giving stress on a regular basis.[1]

A caregiver has been defined as a family member who has been living with the patient and has been closely involved in his/her activities of daily living, health care, and social interaction for more than a year.[2] Moreover, Chronic diseases place a considerable burden on family caregivers who take the sole responsibility for caring for chronically ill patients. [1,2]

Caregiving has been identified as a basic component of human nature and a primary element of close relationship.[6] Furthermore, in an effort to provide the best possible care for a family member, caregivers often sacrifice their own physical and emotional needs. [2,6] Caregiver burden is a multidimensional response to the perceived stress and negative appraisal resulting from taking care of an ill individual.8 The World Health Organization (WHO) states caregiver burden as the "the emotional, physical, financial demands and responsibilities of an individual's illness that are placed on the family members, friends or other individuals involved with the individual outside the health care system. [2]

The costs that families incur in terms of economic hardships, social isolation and psychological strain, are referred to as family burden. [4] Additionally, family burden in care giving of chronic mental illness includes financial stress, domestic routine disturbance, disruption of social and leisure activities of the family and less caring for other family members. [2,5]

There is a dearth of information on burden among caregivers of patients with chronic mental and physical illness in developing countries.[2] Moreover, it is crucial for mental health professionals to be sensitive to the stress and burden experienced by families, in order to plan and implement a comprehensive treatment programme. This would also facilitate enhancing the quality of life of both- the ill, and their families. [2,9] In the Indian scenario, the burden and coping strategies of caregivers have not been adequately studied, and there is a paucity of research directed toward comparison of caregivers of medical and psychiatric illnesses. [9] The objective of this study was to compare family burden in caregivers of patients with chronic psychiatric disorders and chronic medical illness.

MATERIAL AND METHODS-

This hospital based analytic type of observational study was conducted on 120 care givers of chronic patients of department of Psychiatry and Medicine of SMS Hospital Jaipur, Rajasthan, India.

Selection of patients-

For chronic psychiatric patients: Patients of chronic psychiatric illness including Schizophrenia and Obsessive-Compulsive Disorder (OCD) patients of at least 2 years duration and aged 18-60 years attended at Psychiatric OPD of SMS MC Jaipur were included in this study. The diagnosis of schizophrenia and OCD was made according to ICD-10 on independent interview by two psychiatrists after applying Modified MINI scale. After excluding those who had coexisting other significant physical or mental condition, 30 Schizophrenia Patients and 30 Obsessive- Compulsive Disorder OCD Patients were included in this study.

For chronic Medical patient: Patients of chronic medical illness including confirmed cases of Chronic Renal Failure and Chronic Obstructive Pulmonary Disease patients of at least 2 years duration and aged 18-60 years undergoing treatment at medical OPD of SMS MC Jaipur were included in this study. The diagnosis of Chronic Renal Failure and Chronic Obstructive Pulmonary Disease was made according to ICD-10 on independent interview by two psychiatrists after applying Modified MINI scale. After excluding those who had co-existing other significant physical or mental condition, Chronic Renal Failure and Chronic Obstructive Pulmonary Disease patients were included in this study.

Selection of caregivers-

Healthy caregivers of age 18 to 60 years of either sex in blood relation or spouse, residing for at least 2 years with selected patients were included in the study. Caregivers with a significant physical or mental condition/disability were excluded from the study.

Study tools-

- 1. Socio-demographic sheet: This is used to collect various socio-demographic details of caregivers.
- 2. Modified Mini Scale [17]: The Modified Mini Screen is a 22-item questionnaire that is administered by a clinician in about 15 minutes. The tool uses a set of "gateway" questions that relate to signs of distress that may be attributed to a diagnosable psychiatric disorder; however, no specific diagnosis should be inferred.
- 3. Family burden scale [18]: This is developed by Pai and Kapur in 1981. This scale is widely used to measure caregiver stress of those who are performing care giving activities to any chronic illness patients. This is a semi-structured interview schedule comprising of 24 items grouped under 6 areas: 1) financial burden, 2) disruption of routine family activities, 3) disruption of family leisure, 4) disruption of family interaction, 5) effect on physical health of others and 6) effect on mental health of others. The burden was rated on a 3-point scale for each item, and a standard question to assess the "subjective" burden was also included in the schedule. This scale has been developed for the Indian setup. The interrelated reliability for each item was reported to be more than 0.78 by the authors, which indicates that the present schedule is a reliable tool.

Ethical approval-

This study was approved form institutional research review board and ethics committee (IEC) of SMS medical college, Jaipur. Furthermore, written informed consent was taken from the subjects participants before administering the tools and their identities were kept confidential as anonymous data was collected.

RESULTS-

Both groups of care givers i.e. care givers of chronic psychiatric patient and care givers of chronic medical patients, were comparable as per all the characteristics except type of family where significantly higher proportion of care givers were from nuclear family otherwise other variable were not having significant (P>0.05) variation in both the groups. (Table 1)

Table No. 1: Compariso	ons of characteristics of Caregivers of
both type of patients	

S. No.	Characteristic of		Care Givers of	Care Givers of	*P value LS
110.	Caregiver		Chronic	Chronic	го
			Psychiat		
			ric	patients	
			(N=60)	(N=60)	
1	Age in years		36.83	0.171 NS	0.171 NS
-	(Mean ± SD)		±11.46		
2	Male:		50:10:00	54:06:00	0.420 NS
	Female				
3	Marrietal	Married	44	44	0.340 NS
	Status	Un Married	14	16	
		Widow/	2	0	
		Divorce			
4	Religion	1.Hindu	50	54	0.422 NS
	-	2.Muslim	10	6	
5	Locality	l.Urban	46	40	0.311 NS
		2.Rural	14	20	
6	Type of	1.Nuclear	30	16	0.028 S
	family	2. Three	22	30	
		generation			
		3.Joint	8	14	
7	Education	1.Upto	16	22	0.101 NS
		Middle			
		2.Middle to	20	10	
		Sr. Sec.			
		3.More	24	28	
		than Sr.			
-	0	Secondary	00	10	0.383 NS
8	Occupation	1.Unemplo yed	22	16	0.383 NS
		2.Retired	2	0	
		3.Professio	10	10	
		nal	10	10	
		4.Bussiness	0	2	
		men			
		5.Farmer/S	22	26	
		killed/Semi			
		skilled			
		/Unskilled			
		6.Other	4	6	
9	Income	1.Upto 6000		26	0.529 NS
	monthly	2.6001-	12	10	
	(in Rupees)	15000			
		3. >15000	28	24	
10	Relation to	Spouse	22	12	0.095 NS
	patient	First	30	41	
		degree			
		relatives			

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		Others	8	7	
11	Duration of care giving		21.33±8.	25.03±8.	0.024 S
	(in Years)		8	07	

*In quantitative data i.e. '1' and '11' p value is inferred by Unpaired 't' test and in qualitative data i.e. '2' to '10' it inferred by Chi-square test

Comparison of family burden:

Family burden was significantly higher in caregivers of chronic psychiatric patients in all the domains i.e financial burden (p=0.032), family routine(p<0.001), family leisure's activity (p<0.001) and family interactions (p<0.001) than in care givers of chronic medical patients. Likewise physical health burden (p=0.02) and mental health burden (p<0.001) were also significantly higher in caregivers of chronic psychiatric patients than in care givers of chronic medical patients. Total Objective Family Burden (TOFB) and Total Subjective Family Burden (TSFB) both were also significantly higher in caregivers of chronic medical patients than in care givers of chronic medical patients (p<0.05). (Table 2)

Table No. 2: Family Burden wise Comparison of Caregiver of Patients of both the Groups

S. No.	Type of Burden	Care Givers of Chronic Psychiatri c (N=60)	Medical	P value LS
1	Financial Burden	6.07 ± 2.24	5.20 ± 2.12	0.032 S
2	Family Routine Burden	6.30±2.62	3.7 ± 1.43	<0.001 S
3	Family Leisure	4.03	1.62 ± 0.97	<0.001 S
	Burden	±2.93		
4	Family Interaction Burden	3.36±1.63	2.13±0.93	<0.001 S
5	Physical Health Burden	1.03±0.84	0.67±0.79	0.024 S
6	Mental Health Burden	1.10±0.84	0.66±0.75	0.003 S
7	Total Objective Family Burden	21.90±6.3 9	15.30±4.32	<0.001 S
8	Total Subjective Family Burden	1.77 ±0.43	1.53±0.50	0.012 S

DISCUSSION-

In this present study, both groups of care givers i.e. care givers of chronic psychiatric patient and care givers of chronic medical patients, were comparable as per all the characteristics except type of family where significantly higher proportion of care givers were from nuclear family otherwise other variable were not having significant (P>0.05) variation in both the groups. Similar observations were made by observed by Dr. Surjeet sahoo et al., 2010 [19], who observed that the caregivers of mentally ill clients belonged to nuclear family (66.68%) rather than joint family.

In present study, family burden was significantly higher in all the domains i.e financial burden, family routine, family leisure's activity and family interactions in caregivers of chronic psychiatric patients than in care givers of chronic medical patients. Present study also observed that physical health burden (p=0.02) and mental health burden (p<0.001) were also significantly higher in caregivers of chronic psychiatric patients than in care givers of chronic medical patients. Total Objective Family Burden (TOFB) and Total Subjective Family Burden (TSFB) both were also significantly higher in caregivers of chronic psychiatric patients than in care givers of chronic medical patients. ((p<0.05).

Shiv Gautam etall (20) also conducted a study in department of psychiatry of SMS medical college, Jaipur and reported the similar observations i.e. increased family burden in care givers of of chronic psychiatric patients. In abroad also similar observations were made as in present study e.g Magliano Let all (21) conducted a study by department of Psychiatry, University of Naples, in Italy on 709 key relatives of patients with a DSM-IV diagnosis of schizophrenia and 646 key relatives of patients with physical diseases, also reported that family burden with all the domains was significantly higher in caregivers of chronic psychiatric patients than in care givers of chronic medical patients. Other authors (22-25) from various other regions of India also made almost similar observation like Harsh Oza (22) from Ahmadabad, Gururaj GP et all (23) from Bangalore, Vikas A et all (24) from Chandigarh and Ampalam P et all (25) from Andhra Pradesh.

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