ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

# Family Burden and Coping in Caregivers of Chronic Schizophrenia – A Hospital based Study

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Abstract: Background: The demands of being involved in the care of a seriously mentally ill relative have both an emotional and a practical impact on the caregiver. For a given amount of burden, the individual levels of distress show variable considerations because it varies according to their ways of coping. Aim and objectives: To assess the burden of caregivers of chronic schizophrenia. To assess coping strategies adopted by the caregivers of chronic schizophrenia. To study the relationship of burden and coping strategies in caregivers of chronic schizophrenia. To assess the relationship of burden of the caregivers with the global assessment of functioning of the patients of chronic schizophrenia. Materials and methods: The study was conducted in the Department of Psychiatry, Assam Medical College and Hospital, in upper Assam (Dibrugarh) with a sample size of 30 primary caregivers of equal number of patients of Chronic Schizophrenia. Diagnosis of Schizophrenia was made as per guidelines listed in ICD-10. The study was of cross sectional, exploratory research design conducted with the use of scales and questionnaire. Results: Of the 30 primary caregivers 6 (20%) experienced lower burden (score < 80 on BAS) whereas the rest 24 (80%) experienced higher burden (score > 80 on BAS). Caregivers with lower burden in Schizophrenia resorted to coping strategies like Positive cognitive, Negative cognitive, Problem solving, Distraction and External Attribution significantly more than the caregivers with higher burden. On the other hand those with higher burden used coping strategies like Magical Thinking and religious coping significantly more than those with lower burden. A positive correlation was found between caregiver's burden and level of impairment in functioning of patients of Chronic Schizophrenia. <u>Conclusion</u>: Coping mechanisms like cognitive coping, problem solving, distraction and external attribution can decrease the burden of illness. Therefore their analysis is essential, before clinical interventions, to improve the coping skill of the caregiver.

### Keywords: Schizophrenia, Burden, Coping, Caregiver

### 1. Introduction

Schizophrenia is the paradigmatic illness of psychiatry. The policy of de-institutionalization has highlighted the role of family members as the primary source of care giving for relatives with schizophrenia. A noteworthy finding by **Weidman et al**<sup>[1]</sup> was that despite the apparent downfall of traditional family structure, over 60% of patients with long term schizophrenia live with atleast one 'significant other' i.e. Primary Caregiver. In India, families are always recognised as an integral part of the care system for persons with chronic mental illness, such as schizophrenia. The demands of being involved in the care of a seriously mentally ill relative have both an emotional as well as practical impact on the caregiver. <sup>[2,3]</sup>

The costs that families incur in terms of economic hardships, social isolation and psychological strain, are referred to as family burden<sup>[4-6]</sup>. The fact that the illness leaves a varying degree of disability in the patient and leads to disturbing behaviour means that its management is associated with a significant burden of care. As a result of the paucity of organised care, families have been part of mental health care all throughout the history of India. In addition there is also evidence to suggest that family involvement in patient-care continues to be preference of families and thus family members serve as the main source of support for schizophrenic individuals. All the relatives do not necessarily behave in the same manner and the nature of the burden placed on them may possibly lead some to resort to ineffective coping strategies. It has been observed that for a

given amount of burden, the individual level of distress show considerable variations <sup>[7]</sup>, because it varies according to their ways of coping. **Folkman and Lazarus** <sup>[8, 9]</sup> have defined coping as a person's constantly changing cognitive and behavioural efforts to manage an encounter appraised as stressful.

The relationship between coping styles and perceived burden of care is complex because caregivers subjectively report 'burden'. This subjectivity in turn is a product of the coping styles used by the caregivers. Pai and Kapur [10] observed that in view of the economic and cultural conditions of a developing country being vastly different from those of the western world, the areas of burden and the pattern of accepting or rejecting patients in India may be entirely different. Several patient and caregiver variables have been found to contribute to family burden. Greater burden is associated with patient who are male [11, 12], younger in age [13, 14] and who have poorer levels of functioning [15, 16]. Caregiver characteristics associated with burden have received comparatively less attention. Women take on a large part of care giving responsibilities [17] and caregivers who are younger and more educated experience greater burden [18]. The relationship of the primary caregiver to the patient may also mediate the experience of burden.

**Burden** refers to the presence of problems, difficulties or adverse events which affects the lives of individuals who are primary carers of persons with mental health problems. Numerous definitions of burden exist in literature and these share a common underlying frame of reference, namely the

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Volume 6 Issue 10, October 2017

www.ijsr.net

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Paper ID: ART20177219

ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

effect of the patient on the family <sup>[19]</sup>; impact of living with a psychiatric patient on the way of life and health of family members or the difficulties felt by the family of a psychiatric patient <sup>[5]</sup>. **Platt (1985)** <sup>[7]</sup> defined burden as "the presence of problems, difficulties or adverse events that affect the lives of psychiatric patients". **Hoeing and Hamilton** in the late 1960s were the firsts to make a clear distinction between subjective and objective aspects of burden. 'Objective burden' is used to identify anything that occurs as a disrupting factor in family life owing to the patient's illness. 'Subjective burden' refers to the feeling that the burden is being carried in a subjective sense or the extent to which relatives felt they carried a burden. Of the family members, the consequences of caring is high in the life of a family member who bears maximum responsibility. <sup>[34]</sup>

In 1955, **Clausen and Yarrow** <sup>[20]</sup> led a group of social scientists of the United States to carry out the first study on the demands of the families of the mental patients. In Indian context, **Pai and Kapur** in 1981<sup>[5]</sup> described six areas of burden: financial burden, effect on family routine, effect on family leisure, effect on family interaction, effects on physical health of other family members and effect on mental health of other family members.

**Thara in 1998** [21] developed a burden assessment schedule, which is a 40 item scale measuring different areas similar to as mentioned by Pai and Kapur. In addition, it contains items that tap areas of emotional burden specific to spouses, such as the effect of the illness on the patient's ability to share responsibilities, sexual relations and the overall quality of the marital relationship. Singh et al. 2012 [22] in his study 'Burden of schizophrenia on caregivers in Nepal' reported that most burden was in the area of finance and family dynamics and overall burden was moderate. Gupta et al. 2014 [23] found that 80% of the caregivers have experienced moderate levels of burden. Older caregivers experienced higher burden whereas gender and educational status exerted no significant effect on burden. The burden was significantly higher among spouses followed by parents, and the level of burden was positively correlated to the duration of care.

**Pearlin and Schooler** <sup>[24]</sup> defined coping as the cognitive and behavioural effort made to master, tolerate or reduce demands that tax or exceed a person's resources. Freud (1946) <sup>[25]</sup> and Haan (1977) <sup>[26]</sup> viewed coping and defence through psychoanalytic conception or largely unconscious responses to internal conflicts. Coping has been conceptualized in terms of approach vs. avoidance <sup>[27]</sup> and in terms of appraisal; problem focus and emotion focus <sup>[28]</sup>.

Care giving is a chronic stressor and different coping methods are used to handle such a situation. The use of coping strategies such as avoidance, denial and resignation is linked to greater burden [29, 30] whereas utilization of social support and a sense of mastery over the situation are associated with lower level of burden and distress [31].

In 1994, the consensus reported by **Troop** [32] states that emotion based coping is associated with an unsatisfactory outcome whereas problem focused coping is associated with a more satisfactory outcome. Spouses reported greater

emotional burden [33]. Parents used more of denial as a coping strategy, while spouses used more of negative distraction strategies. On stepwise regression analysis, patient's age, educational level, and level of functioning and caregiver's use of denial as a coping strategy emerged as significant predictors of caregiver burden. The study highlights the fact that family intervention programs need to address the specific concerns of caregivers. Batra et al. **2015** [35] in their study found that majority of the caregivers were male and parents above the age 50 yrs. Majority of the caregivers were non literate and unemployed. Most of the caregivers used 'seeking spiritual support' as the strongest coping strategy and 'mobilizing family to accept help' as the weakest coping strategy. There was no association found between the selected demographic variable and the caregivers' coping strategies. The present study is an attempt to assess these areas of burden and coping in families of patients of chronic schizophrenia.

### Aim and objectives:

- 1) To assess burden of Caregiver of Chronic Schizophrenia.
- 2) To assess coping strategies adopted by the Caregivers of Chronic Schizophrenia.
- 3) To study the relationship of burden and coping strategies in Caregivers of Chronic Schizophrenia.
- 4) To assess the relationship of burden of the caregiver with the global assessment of functioning of Chronic Schizophrenic patients.

### 2. Materials and Methods

- a) Study sample: Sample was randomly selected from the Caregivers of Chronic Schizophrenic in-patients and outpatients of Department of Psychiatry, Assam Medical College and Hospital, Dibrugarh.
- b) **Sample size:** Primary Caregiver of 30 Chronic Schizophrenic patients.
- c) **Study design**: Hospital Based Cross sectional study.
- d) **Duration of study:** One year
- e) Definition of Primary Caregiver A person who is currently shouldering maximum responsibility and care of the patient in terms of social, physical, emotional and financial support for a considerable period of two years or more.

Inclusion and exclusion criteria:

### Inclusion criteria:

### $a) For \ the \ patient -$

- Age 18 years and above (either sex)
- Diagnosed case of Schizophrenia according to ICD-10 without any co-morbid psychiatric disorder
- Duration of illness, two years and above at the time of examination

### b)For the caregiver -

• Healthy adult family members staying currently with the patient and for previous two years of illness

### **Exclusion criteria**

### a) For the patient –

• Those with co-morbid major physical illness like diabetes, hypertension, carcinoma etc.

### Volume 6 Issue 10, October 2017

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Paper ID: ART20177219

# International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

- · Mental Retardation.
- Substance dependence.
- Absent from home for a period of 6 months or more.

### b)For the caregiver -

• Those with psychiatric illness were excluded.

#### **Tools:**

- Burden Assessment Schedule (Thara, 1998) [21]: The Burden Assessment Schedule (BAS, 98) developed by Thara et al, at the Schizophrenia Research Foundation is based on the principle of 'stepwise ethnographic exploration' described by Sell and Nagpal in 1992. This is a semi-quantitative, 40 items scale measuring 9 different areas of subjective and objective caregiver burden. In BAS the minimum score is 40 and the maximum score is 120.
- Coping checklist (Rao and Prabhu, 1989) [36]: This scale comprises of 70 items describing a broad range of behavioural, emotional and cognitive responses that may be used to handle stress. Items are scored as Yes or No. This scale is reported to be useful in both clinical and research settings especially within the stress coping social support framework on the basis of the type of questions.
- Global Assessment of Functioning Scale (GAF) the GAF scale is a measure of rating the overall psychological, social and occupational functioning of the patient, first included in DSM –III-R as Axis V of the multi axial diagnostic system. It is a modified version of "The Global Assessment Scale" developed by Endicott et al in 1976. The scale has 10 ranges of functioning where each range has two components covering symptom severity and patient functioning.
- Socio demographic details of both the patients and caregivers were recorded on a proforma designed to collect the following details in addition to the age, sex, education, socio-economic status, family type and domiciliary status the type of diagnosis and duration of illness of the patients. The proforma also includes caregiver details, mentioning the relationship to the patient and the duration of care.

Procedure: Study subjects were thoroughly evaluated on the basis of history and mental status examination. Diagnosis of Schizophrenia was done as per guidelines listed in ICD-10 and confirmed by senior psychiatrist. Patients and their primary caregiver who fulfil the inclusion criteria and did not meet the exclusion criteria were selected. Written Informed consent was taken from each of the Caregivers before including them in the study. Proforma for socio demographic data was filled up for socio-demographic details of patients and their primary caregivers. Global assessment of functioning was applied to all patients. Burden Assessment Schedule and Coping Checklist were applied to all primary caregivers and scoring done. Appropriate statistical test in MS Excel were applied to analyze the obtained data setting the significance threshold at p<0.05.

### 3. Results and Observations

In the present study 30 schizophrenic patients participated out of whom 50% were in the age range of 18-30 years with the mean age being 33.7±11.62 years. Prevalence was more among male with male to female ratio being 2.3:1. The prevalence of the disease was significantly higher in the rural areas. Majority of the patients were unmarried (60%), belonged to nuclear families (70%), unemployed (53.3%), educated upto middle education level (53.3%) and belonged to poorer families with family income of less than 2040 Rs/month (43.3%). Majority had duration of illness between 2-5 years followed by patients with duration 10 or more than 10 years.

Table 1: Socio-Demographic Characteristics of Patients

Patient Variable	Variable subgroup	Schiz	ophrenia
		No	(%)
Age (years)	18-30	15	50.00
	31-43	7	23.33
	44-56	7	23.33
	>56	1	3.33
Sex	Male	21	70.00
	Female	9	30.00
Religion	Hindu	27	90.00
	Muslim	3	10.00
Locality	Urban	6	20.00
	Rural	24	80.00
Marital status	Unmarried	18	60.00
	Married	12	40.00
Family type	Nuclear	21	70.00
	Joint	9	30.00
Employment status	Unemployed	16	53.30
	Full time employed	3	10.00
	Part time employed	0	0.00
	Self employed	6	20.00
	Student	1	3.33
	Housewife	4	13.33
Family income	<2,040	13	43.33
-	2,041-6,100	13	43.33
	6,101-10,160	4	13.33
	10,161-15,280	0	0.00
	15,281-20,360	0	0.00
Education	Illiterate	3	10.00
	Literate	0	0.00
	Primary education	4	13.33
	Middle education	16	53.33
	Matriculation/H.S	5	16.66
	Graduate	2	6.66

**Table 2:** Distribution according to duration of illness

Duration of illness (in years)	Schizophrenia		
, ,	No	(%)	
2-5	14	46.7	
6-9	6	20.0	
Equal to or more than 10	10	33.3	

Table 3 shows that 50% of the schizophrenic patients had functioning score between 31-40 followed by 36.6% of patients with functioning score of 41-50.

ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

**Table 3:** Distribution according to global assessment of functioning (GAF) score of patients

GAF score	Schizophrenia		
	No	%	
21-30	2	6.7	
31-40	15	50.0	
41-50	11	36.6	
51-60	2	6.7	
61-70	0	0.0	
71-80	0	0.0	

**Table 4:** Distribution of caregivers according to sociodemographic characteristics

Caregiver variable	Sub-variable Schizophreni		ophrenia
8		no	(%)
Age	18-30	7	23.33
1-81	31-43	10	33.33
	44-56	5	16.67
	>56	8	26.67
Sex	Male	14	46.67
	Female	16	53.33
Marital status	Unmarried	8	26.67
	Married	22	73.33
Employment	Unemployed	4	13.33
	Full time employed	4	13.33
	Part time employed	1	3.33
	Self employed	8	26.67
	Student	0	0.00
	Housewife	12	40.00
	Others	1	3.33
Education	Illiterate	5	16.67
	Literate	2	6.67
	Primary education	5	16.67
	Middle education	8	26.67
	Matriculation/H.S	7	23.33
	Graduate	3	10.00
Family income	<2,040	13	43.33
	2,041-6,100	13	43.33
	6,101-10,160	4	13.33
	10,161-15,280	0	0.00
	15,281-20,360	0	0.00
Relationship to patient	Spouse	5	16.67
	Parent	13	43.33
	Sibling	8	26.67
	Children	2	6.67
	Others	2	6.67

Majority of caregivers were in the age range of 31-43 years followed by >56 year age group. Mean age of caregivers was 44.03±15.56. Majority were female (53.3%), married (73.33%), housewives (40%), educated upto middle education level and belonged to poorer families. Parents constituted the predominant population among the caregivers followed by siblings and spouses.

Most common coping styles used were religious coping (90%) followed by help seeking (86.67%) and external attribution (86.67%).

Among the caregivers older people (>56yrs) tended to have more family burden with mean score 103.25±35.28. Mean Burden Assessment Score (BAS) were more for female caregivers than males and more among those who were married, illiterate, spouses and those who belonged to poorer families.

**Table 5:** Distribution of caregivers according to duration of care

Duration of Care (in years)	Schizophrenia	
	No	(%)
2-5	14	46.67
6-9	8	26.67
Equal to or more than 10	8	26.67

**Table 6:** Distribution of caregivers according to total burden assessment schedule (BAS) score

Total BAS score	Schizophrenia		
	No	(%)	
<80	6	20.00	
>80	24	80.00	

**Table 7:** Different types of coping used by caregivers of Schizophrenia

Coping style	Used/Not used	Schizophrenia	
		No	(%)
Positive cognitive	Used	24	80.00
	Not used	6	20.00
Negative cognitive	Used	21	70.00
	Not used	9	30.00
Problem solving	Used	25	83.33
	Not used	5	16.67
Magical thinking	Used	25	83.33
	Not used	5	16.67
Avoidance	Used	5	16.67
	Not used	25	83.33
Distraction	Used	18	60.00
	Not used	12	40.00
Religious	Used	27	90.00
	Not used	3	10.00
Help seeking	Used	26	86.67
	Not used	4	13.33
External attribution	Used	26	86.67
	Not used	4	13.33

**Table 8:** Comparison of burden with coping in schizophrenia caregivers

semzopmenia caregivers					
COPING	GROU	JP A	GROU	JP B	P value
	(Burder	n <80)	(Burder	1 > 80	
	(n =	6)	(n =	24)	
	Mean	SD	Mean	SD	
Positive cognitive	24.00	5.87	17.00	2.43	<0.0001*
Negative cognitive	10.50	0.85	4.87	0.51	<0.0001*
Problem solving	25.00	6.01	19.79	3.85	0.0132*
Distraction	12.00	1.03	9.75	0.78	<0.0001*
Magical thinking	16.60	2.12	20.80	4.04	0.0212*
Avoidance	0.83	0.04	0.83	0.04	1.000
Religious	13.50	1.52	25.80	6.19	<0.0001*
Help seeking	21.60	4.89	20.58	4.00	0.5965
External attribution	26.00	6.59	20.58	4.00	$0.0148^{*}$

[\*: p value Significant at <0.05]

Table 8 shows that the caregivers with lower burden in schizophrenia had resorted to coping strategies like Positive cognitive, Negative cognitive, Problem solving, Distraction and External Attribution significantly more than the caregivers with higher burden. On the other hand those with higher burden used coping strategies like Magical Thinking and Religious coping significantly more than those with lower burden. There was no significant difference in the use of coping strategies like avoidance and help seeking between the two groups.

Volume 6 Issue 10, October 2017

www.ijsr.net

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ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

**Table 9:** Correlation between Global Assessment of Functioning (GAF) of patients with burden of caregiver in Chronic Schizophrenia

Total GAF Score	CAREGIVER OF		"r" Value
	SCHIZOPHRE	NIA	
	Mean BAS score	SD	
21-30	109.50	37.25	r = 0.9783
31-40	95.20	25.15	
41-50	93.18	24.02	
51-60	101.00	34.83	
61-70	0.00	0	
71-80	0.00	0	

Table 9 shows a "r" value of 0.9783, which is closer to 1.00, indicating high positive correlation between caregiver's burden and level of impairment in functioning of schizophrenic patients.

### 4. Discussion

Majority of the patients were male in the age range of 18-30 years, single, unemployed and belonged to low income families of rural background. This is consistent with the findings of Gopinath and Chaturvedi in 1992, Karno and Norquist in 1989 [18, 37]. Majority of the caregivers were in the age range of 31-43, females, married, educated up to middle education level and belonged to low income families. Our findings are in line with the findings of Jenkins and Schumacker in 1999, who found that women take on a large part of care giving responsibility. Parents constituted the predominant population among the caregivers. Positive correlation was found between the caregiver's burden of illness and patient's impairment in functioning. Our findings are in accordance with the findings of Gautam and Nijhawan in 1984, Roy Choudhury et al. 1995; and Credo and Parkar in 2006 [11,14,38] .Those caregivers who had lower burden most commonly used problem solving coping than the higher burden group who used more of religious and magical thinking as coping strategies. This finding is in keeping with the findings of Credo and Parker in 2006, Scazufca and Kuipers in 1999 and Chandrasekaran et al. 2002. [38-40]

### 5. Conclusion

Thus as the patient's impairment in functioning increases, burden of illness also increases. Most caregivers used religious coping followed by external attribution and magical thinking. Caregivers with lower burden most commonly used problem solving coping strategies while those with higher burden used more of religious coping and magical thinking as coping strategies. It was also seen those with lower burden used coping mechanisms like Positive coping, Negative coping, Distraction, Problem solving and External Attribution significantly more than those with higher burden used coping strategies like magical thinking and religious coping significantly more than those with lower burden.

### References

[1] Weidman G., Halweg K.; Hank G. (1994) Deliverability of psycho-educational social family management.

- Schizophr. Bull; 20: 547-56.
- [2] Chakrabarti S., Kulhara P.; Nehra R; Sharma R. (2005). Caregivers coping in bipolar disorder and schizophrenia: A re–examination, Social Psychiatry Psychiatr Epidemiol. Apr; 40 (4): 329–36.
- [3] Provencher H.L. (1996): Objective Burden among Primary Caregivers of Persons with Chronic Schizophrenia. Journal of Psychiatry, Mental Health and Neuroscience, Jun; 3(3): 181–7.
- [4] Grad and Sainsbury P. (1963): Mental Illness and the Family. Lancet, I; 544–547.
- [5] Pai S. and Kapur R.L. (1981): The Burden on The Family of Psychiatric Patient: Development of an Interview Schedule. British Journal of Psychiatry; 138: 332–8.
- [6] Schene, A., Van Wijngaarden, B. and Koeter, M. (1998). Family care giving in schizophrenia: Domains and distress. Schizophrenia Bulletin, 24: 609–618.
- [7] Platt, S. (1985). Measuring the Burden of psychiatric illness on the family: an evaluation of some rating scales. Psychological Medicine, 15: 385–394.
- [8] Lazarus RS., Folkman S. (1984): Stress, appraisal and coping. New York: Springer.
- [9] Folkman S., Lazarus R.S. (1985): If it changes it must be a process: Study of emotion and coping during three stages of a college examination. J. Personality Social Psychology, 48; 150–70.
- [10] Pai S. and Kapur R.L. (1982): Impact of Treatment Intervention on the Relationship between Dimensions of Clinical Psychopathology, Social Dysfunction and Burden on The Family of Psychiatric Patients. Psychological Medicine; 12: 651–658.
- [11] Gautam S. and Nijhawan M.(1984): Burden on Families Schizophrenic and Chronic Lung Disease Patients. Indian Journal of Psychiatry; 26 (2), 156–159.
- [12] Martyn–Yellow I.S. (1992): The burden of Schizophrenia on the family: A study from Nigeria. British Journal of Psychiatry; 161: 779–782.
- [13] Magliano, L, Fadden, G. et al (2000) Family burden and coping strategies in schizophrenia: 1 year follow up data from the BIOMED I study. Social psychiatry and Psychiatric Epidemiology, 35: 109–115.
- [14] Roy Choudhury R., Mondal D., Boral A. and Bhattacharya (1995): Family Burden among Long Term Psychiatric Patients. Indian Journal of Psychiatry; 37(2), 81–85.
- [15] Salleh M.R. (1994). The burden of care of schizophrenia in Malay Families. Acta Psychiatrica Scandinavica, 89: 180–185.
- [16] Winefield H.R., Harvey E.J. (1993): Determinants of Psychological Distress in Relatives of People with Chronic Schizophrenia, Schizophrenia Bulletin; 19(3): 619–25.
- [17] Jenkins, J.H., Schumacher, J.G. (1999). Family Burden of schizophrenia and depressive illness. British Journal of Psychiatry, 174: 31–38.
- [18] Gopinath P.S. and Chaturvedi (1992): Disturbing behavior of schizophrenics at Home. Acta Psychiatr Scand; 86, 185–188.
- [19] Goldberg D. and Huxley P. (1980): Mental Illness in The Community, Tovistock: London.
- [20] Clausen J. and Yarrow M.R. (1955): Mental Illness and the Family. Journal of Social Issues, 11, 3–5.

### Volume 6 Issue 10, October 2017

www.ijsr.net

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ISSN (Online): 2319-7064

Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

- [21] Thara R., padmavathi R., Kumar S., & Srinivassan, L (1998) Burden Assessment Schedule: Instrument to assess burden on caregivers of chronic mentally ill. Indian Journal of Psychiatry, 40, 21–29.
- [22] Singh PM et al 2012: Burden of schizophrenia on caregivers in Nepal, Nepal Med Coll J 2012; 15(2): 140-143
- [23] Gupta Aditya et al 2014: Psychological well-being and burden in caregivers of patients with schizophrenia, International Journal of Medical Science and Public Health, Vol 4, Issue 1, Pg 70-74
- [24] Pearlin L.I. and Schooler, C. (1978): The structure of coping. J. Health Soc. Behav. 19: 2–21.
- [25] Freud A. (1964). The ego and the mechanisms of defence. New York: Int Univ Press.
- [26] Haan N. (1977). Coping and defending: Process of self-environment organization. New York: Academic.
- [27] Suls J., Fletcher B (1985): The relative efficacy of avoidant and non-avoidant coping strategies: a meta-analysis Health Psychol, 4(3): 249–88.
- [28].Billings, A. G. & Moos, R. H. (1984). The role of coping resources and social resources in attenuating the stress of life events. Journal of Behavioral. Medicine, 4, 139–157.
- [29].Budd R. J., Oles G. and Hughes I.C.T. (1998): The Relationship between coping style and burden in the carers of relatives with schizophrenia. Acta Psychiatrica Scandinavica, 304–309.
- [30] Hinrichsen, GA., & Lieberman, J.A. (1999). Family attributions and coping in the prediction of emotional adjustment in family members of patients with first episode schizophrenia. Acta Psychiatrica Scandinavica, 100, 359–366.
- [31] Noh, S. and Turner, J. (1987). Living with psychiatric patients: Implications for the mental health of family members. Social Science and Medicine, 25: 263–271.
- [32] Troop N. (1994) Coping, stress and illness. The Royal Society of Medicine. Curr Med. Literature Psychiatry; 5: 3–8.
- [33] Rammohan A., Rao k. Subbakrishna D.K.(2002): Burden and coping in caregivers of persons with schizophrenia. Indian J. Psychiatry; 44 (suppl. 3): 220–7
- [34] Hoenig and Hamilton M. W. (1969): Desegregation of the Mentally ill. London Rutledge and Kegan Paul.
- [35] Batra.S.Bharati et al 2015: Coping Strategies Among Caregivers Of Patients With Schizophrenia: A Descriptive Study, IOSR Journal of Dental and Medical Sciences, Volume 14, Issue 12 Ver. VI (Dec. 2015), PP 20-29
- [36] Rao, K., Prabhu, G.G.; Subbakrishna D.K., (1989): Development of a coping Checklist: A Preliminary report. Indian Journal of Psychiatry 31(2): 128–133.
- [37] Karno M. and Norquist G.S.(1989): Schizophrenia: Epidemiology. In Comprehensive Textbook of Psychiatry, 5<sup>th</sup> edition. Williams and Wilkins, Baltimore, London.
- [38] Credo, Parkar; Dean A., Shubhangi R.; Ravindra M.; Kamath (2006): A comparison of the level of functioning in chronic schizophrenia with coping and burden in caregivers: Indian Journal of Psychiatry; 48: 27–33.
- [39] Schazufca M., Kuipers E. (1999): Coping strategies in

relatives of people with schizophrenia before and after psychiatric admission. British J. Psychiatry; 174: 154–8.

[40] Chandrasekaran, R., Sivaprakash, B. and Jayestri S.R. (2002): Coping strategies of the relatives of schizophrenic patients. Indian Journal of Psychiatry, vol. 44 (1), p 9–13.

Volume 6 Issue 10, October 2017 www.ijsr.net

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