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Stress among Nurses in a Tertiary Care Hospital

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ABSTRACT

Stress is a part and parcel of human lifestyle. Stress is a bodily or mental tension resulting from factors that tend to alter an existent equilibrium. Nursing is generally perceived as demanding profession. Along with the increased demand and progress in the nursing profession, stress among the nurses has also increased. The study is carried out with the objectives to assess the level of stress among nurses and to associate the level of stress among nurses with their socio demographic variables. METHODS: Cross sectional research design was adopted.200 nurses working in selected tertiary care hospital were selected by using probability simple random sampling technique. Data was collected by using modified stress inventory. RESULTS: The study revealed that among 200 samples 2(1%) had mild stress, 79(39.5%) had moderate stress and 119(59.5%) had severe stress. In associating the sociodemograpic variables with the level of stress, the variables like age, sex, religion, marital status, educational qualification, designation, area of working, programme attended related to stress, relaxation technique used have no significant association at the level of p<0.05 where as variables income, years of experience, area of living have significant association with level of stress at the level of p<0.001 &p<0.20. CONCLUSION: The study concludes that majority of the nurses have stress. It is also found that stress due to work organization and inter personal relationship at work is harder which adds up to the stress. It is evident in the present study that younger age group and women were commonly affected with severe stress. Income earned and place where they live also influences the stress. It is recommended to implement strategies for reducing stress and to organize stress management programme.

Keywords: Stress, Workload, Nurses, Coping

Stress is a part and parcel of human lifestyle. Stress is a bodily or mental tension resulting from factors that tend to alter an existent equilibrium. It is a motivating for achieving anything in the life it is an acknowledged truth that all human being are forced to undergo different kinds of stressors in their life time.

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Stress has been labeled as a precursor to an outcome, and a way of handling situations. Lazarus advocated a psychological view in which stress is "a particular relationship between the person and the environment that is appraised by the person as taxing or exceeding his or her resources and endangering his or her well-being".

Stress is not innately harmful, but it depends on the thinking, perception and interpretation of those stimuli which signify the experience and concludes whether actions are to be out looked as frightening or positive. Individuality too persuades the stress association because what may be overburden to one person may be exciting to another. Stress is a part of daily life for health professionals such as nurse's, physicians and hospital Administrators.

Nursing is a profession within the health care sector which centers on the care of individuals, families, communities, in order to help them to achieve, preserve or improve the finest health and strengthens the life. Nursing is generally perceived as demanding profession. Along with the increased demand and progress in the nursing profession, stress among the nurses has also increased.

Gray-Toft and Anderson (2012) identified that care of dying patient and death divergence with physicians, insufficient preparation to deal with the emotional needs of patients and their families, inadequate team support, variance with other nurses and supervisors, workload, ambiguity regarding treatment were the major factors of stress. Workload, decreased job sovereignty, inadequate supervisor support, less opportunities of learning on job and inappropriate feedback to be significant predictors of stress among nurses

Stress affects the Cognition which can be manifested in mental slowness, confusion, general negative attitudes or thoughts, constant worry, difficulty concentrating, forgetfulness, difficulty thinking in a logical sequence, the sense that life is overwhelming, unable to solve problem

Emotional signs include irritation, no sense of humor, frustration, jumpiness, over excitability, feeling overworked, feeling overwhelmed, sense of helplessness, apathy. Behavioral signs include decreased contact with family and friends, poor work relations, sense of loneliness, decreased sex drive, avoiding ,failing to set aside times for relaxation through activities such as hobbies, music, art or reading

Stress adjoin the outcomes that make threats to organizational success, including physical injuries at work, absenteeism, turnover, reduced results, diminished job contentment. Depression and sleep difficulty have been reported as frequent stress-related outcomes

Job stress has been associated with reduced job satisfaction, increased psychological agony, physical complaints, and absenteeism. Several studies have found that high levels of job stress contribute to feelings of inadequacy, self-doubt, lower self-esteem, irritability, and somatic disturbance in nurses. As a group, nurses tend to have high rates of transience and unbalanced

high rates of general illness, stress-related disease, psychiatric outpatient consultation, and psychiatric admissions

NEED FOR THE STUDY

Job stress is believed to account for approximately 50% of all workplace absences and for as much as 40% of employee turnover. In a study conducted by Apeksha Gulavani, Mahadeo Shinde Majority 49% of nurses had reported frequent occurrence of stress, 30% reported occasional occurrence of stress, 21% reported extreme occurrence of stress.

U. Syed Aktharsha, H. Anisa (2011) conducted a study on job stress and job satisfaction among nursing personnel in leading hospital tiruchirapalli.210 respondents participated in this survey. Chi-square test revealed that some factors associated with burnouts and job satisfaction is found to be significant. Multiple regression analysis revealed that some independent variables concerned with job stress, burnouts and job satisfaction are significant in explaining the level of overall job satisfaction of nursing personnel.

Nirmanmoh Bhatia ,et al(2010) conducted a study on occupational stress among nurses in tertiary care hospital central delhi.87 nurses were selected randomly and data was collected by self administered questionnaire 87.4% of nurses from the sample reported occupational stress. Time Pressure was found to be the most stressful whereas 'Discrimination' was the least stressful of the given possible sources of stress in everyday life. Other highly stressful sources were: handling various issues of life simultaneously with occupation such as caring for own children/parents, own work situation and personal responsibilities. 'High level of skill requirement of the job' was the most important stressor and 'helpfulness of supervisors/senior sisters' was the least significant stressor directly related to nursing profession. Other significant work related stressors were: the fact that their jobs required.

Stress is easily manageable if it is recognized at an early stage. So the investigators took the interest to find out the level of stress among nurses

OBJECTIVES OF THE STUDY

The present study intends to identify the level of stress among nurses and to associate it with the socio demographic variables

MATERIAL AND METHODS

A descriptive cross sectional research design was adopted to identify the level of burnout among nurses working in a selected tertiary care hospital, Nellore. 200 nurses were selected by using simple random sampling technique out of 750 nurses working in the hospital. Nurses who were willing to participate in the study were included in the study. Nurses who have attended any training programme related to stress and who are practicing yoga were excluded from the study

Description of the Tool

The tool used in this study has two sections

Section I deals with the socio demographic variables such as age, gender, marital status, educational qualification, designation, income, area of living, area of working, number of working hours, number of night duties done in a month, support system, coping mechanism used, relaxation technique used, presence of illness and the type of illness.

Section II deals with modified stress inventory which consists of 50 items. The total score is 100. The tool assesses the stress in areas related to work organization, work load, personal and interpersonal relationship at work. The scoring key used is never-0, sometimes-1, always-2. The score is interpreted as <33-mild stress, 34-66- moderate stress, 67-100severe stress. Reliability of the tool was established by using test retest method and reliability score is .84.

Data Collection Procedure

After obtaining permission from Institutional ethics committee, Medical superintendent and Nursing superintendent data collection was started. Nature and purpose of the study was explained. Informed consent was obtained from the nurses. Modified stress inventory was administered. It took 10-15 minutes for the data collection

Data Analysis

The data was analyzed by using descriptive and inferential statistics using SPSS 15 version

RESULTS

Table 1: Frequency and percentage distribution of level of stress among nurses (N=200)

Level of Stress		
	Frequency(f)	Percentage (%)
Mild	2	1
Moderate	79	39.5
Severe	119	59.5
Total	200	100

Table 2: Mean and standard deviation of level of stress among nurses (N=200)

			SD
VARIABLE	MEAN	MEDIAN	
Level of stress	67.86	83	12.3

Table 3: Item wise analysis with mean and standard deviation of level of stress among nurses (N=200)

(IV-200)		NEVER SOMET		IMES	IMES ALWAYS		255	C.D.
ITEMS	f	%	f	%	f	%	MEAN	SD
I have hectic schedule in my work	52	26	47	23.5	101	50.5	1.245	0.842
My job responsibility is clearly told	6	3	38	19	156	78	1.75	0.499
I have to work under lots pressure	11	5.5	59	29.5	130	65	1.6	0.594
Nurses station is nearly to the								
patient side	19	9.5	57	28.5	124	62	1.52	0.665
I have to walk so much to carry out								
patient care	15	7.5	91	45.5	94	47	1.4	0.625
All articles and equipments are								
available to render patient care	9	4.5	129	64.5	62	31	1.26	0.535
I am being assigned with more work	5	2.5	105	52.5	90	45	1.42	0.544
I am satisfied with the work what i								
do	7	3.5	77	38.5	116	58	1.57	0.565
I find difficult to collect reports								
from the lab	11	5.5	109	54.5	80	40	1.38	0.67
I do have professional growth in this							4.00	0.54
organization	16	8	111	55.5	73	36.5	1.39	0.64
My superior find fault with me all	10	_ ~	122		~ ~	27.5	1.05	0.61
the time	13	6.5	132	66	55	27.5	1.25	0.61
I work in the area of my interest	15	7.5	84	42	101	50.5	1.48	0.59
I feel my colleagues enjoy many	22	11.5	7.4	27	100	51.5	1 45	0.55
privileges than me	23	11.5	74	37	103	51.5	1.45	0.57
I get adequate support from my	10	6	104	50	0.4	42	1.42	0.55
superiors I have many responsibilities, but no	12	6	104	52	84	42	1.42	0.55
authority	14	7	114	57	72	36	1.35	0.53
I get appropriate guidance from	14		114	31	12	30	1.33	0.55
superiors during crisis	4	2	98	49	98	49	1.54	0.565
I have to deal with many worried	•		70	17	70	.,	1.51	0.505
and anxious patients	11	5.5	99	49.5	90	45	1.47	0.625
I get adequate monetary facilities for								
the work	21	10.5	114	57	65	32.5	1.3	0.67
I work for longer hours in the field	8	4	106	53	86	43	1.47	0.59
I have enough resources to learn in								
my team	12	6	86	43	102	51	1.54	0.5
I am satisfied with the pay offered	83	41.5	62	31	55	27.5	0.96	0.49
I have been assigned to do others								
work also	21	10.5	91	45.5	88	44	1.48	0.48
I want to be perfect in my work	16	8	70	35	114	57	1.63	0.47
The work environment is								
encouraging and incites learning	14	7	96	48	90	45	1.49	0.46

I have adequate knowledge	3	1.5	73	36.5	124	62	1.72	0.45
I have no time to pursue games or								
leisure activities with friends	15	7.5	69	34.5	116	58	1.62	0.45
I feel my communication with the								
patient is good	5	2.5	80	40	115	57.5	1.67	0.44
The stress make me behave different	17	8.5	113	56.5	70	35	1.49	0.43
I can handle every situation	13	6.5	113	56.5	74	37	1.44	0.43
I miss my deadlines	25	12.5	112	56	63	31.5	1.33	0.42
I feel my patient care is good and								
adequate	11	5.5	91	45.5	98	49	1.58	0.565
I have to work in shift	11	5.5	67	33.5	122	61	1.7	0.45
I have enough time to meet my								
health needs	25	12.5	102	51	73	36.5	1.39	0.53
I suffer a low morale	29	14.5	114	57	57	28.5	1.3	0.53
My colleagues help me to cope with								
work stress	17	8.5	94	47	89	44.5	1.52	0.665
I am happy with my relationships	7	3.5	82	41	111	55.5	1.69	0.594
I develop frequent friction between								
me & superior	19	9.5	111	55.5	70	35	1.43	0.55
I have time to spend with my family	42	21	98	49	60	30	1.27	0.842
I want to change my workplace	31	15.5	97	48.5	72	36	1.39	0.53
I am able to adjust with the new								
technologies	15	7.5	105	52.5	80	40	1.51	0.565
I am unable to meet my social								
demands	31	15.5	107	53.5	62	31	1.35	0.53
I can look after my family	52	26	95	47.5	53	26.5	1.2	0.842
I want to change my residence								
because of my jobs	32	16	92	46	76	38	1.42	0.55
I am able to manage the changes in								
my life	15	7.5	106	53	79	39.5	1.53	0.565
I feel the facilities are inadequate for		_						
my better job	12	6	112	56	76	38	1.53	0.565
I am able to adjust with the social	1.5	7. -	0.5	457.5	00	4.5	1.50	0.565
events	15	7.5	95	47.5	90	45	1.59	0.565
I am unable to adapt with the sudden	1.4	7	112	565	72	26.5	1.50	0.665
loss	14	7	113	56.5	73	36.5	1.52	0.665
My family helps me to cope with the	8	4	02	16.5	99	40.5	1 60	0.504
work stress	0	4	93	46.5	99	49.5	1.68	0.594
I can't able to adjust with the society that force me to drift apart from	14	7	124	62	62	31	1.47	0.43
normal functioning	14	′	144	02	02	<i>J</i> 1	1.4/	0.43
I want to modify my life styles	7	3.5	115	57.5	78	39	1.59	0.565
=smt to modify my mo btyles	/	ر.ر	113	21.3	70	JJ	1.37	0.505

Table 4: Mean and standard deviation on areas of stress (N=200)

Areas of stress	MEAN	SD
Job design and workload	1.34	0.497
Work organization	1.751	0.839
Personal	1.52	0.6
Interpersonal relationship at work	1.537	0.685

Table 5: Association between level of stress among nurses with their socio demographic variables (N=200)

	Milo	d	Moderate		Severe		X
Socio demographic variables	(f)	(%)	(f)	(%)	(f)	(%)	
Age in years	GT 110						
21-30	2	1	74	37	117	58.5	CV= 5.618, TV=9.49,
31-40	0	0	5	2.5	1	0.5	df-4,P<0.05,NS
41-50	0	0	0	0	1	0.5	di 4,1 <0.03,115
Sex			•				CV= 2.803,
Male	0	0	4	2	14	7	TV=5.99,
Female	2	1	75	37.5	105	52.5	df-2,P<0.05,NS
Religion							GV. 1.050
Hindu	2	1	44	22	71	35.5	CV= 1.850, TV=3.84,
Muslim	0	0	2	1	2	1	df-4,P<0.05,NS
Christian	0	0	33	16.5	46	23	
Marital status	•						CV= 3.176,
Unmarried	2	1	67	33.5	110	55	TV=7.82,
Married	0	0	12	6	9	4.5	df-2,P<0.05,NS
Educational Qualification							
M.Sc(N)	0	0	2	1	2	1	CV= 4.673,
B.Sc(N)	2	1	57	28.5	100	50	TV=12.59,
P.B.B.Sc(N)	0	0	1	0.5	1	0.5	df-6,P<0.05,NS
GNM	0	0	19	9.5	16	8	
Income							CV=18.007,
Rs.5000-8000	0	0	35	17.5	22	11	TV=13.28,
Rs.8000-11000	2	1	42	21	96	48	df-4,P<0.001
Rs.11000-15000	0	0	2	1	1	0.5	S***
Years of experience							CV= 22.975.,
<1 year	2	1	35	17.5	21	10.5	TV=22.46,
1-3 years	0	0	42	21	97	48.5	df-
3-6 years	0	0	2	1	1	0.5	4,P<0.001,S***
Designation			T			1	CV = 0.559,
Staff nurse	2	1	74	27	114	57	TV=3.84,
Ward in charge	0	0	5	2.5	5	2.5	df-2,P<0.05,NS

Area of working							
Ward	0	0	39	19.5	41	20.5	CV 0.565
ICU	2	1	23	11.5	45	22.5	CV= 8.565, TV=15.51,
HDU	0	0	8	4	18	9	df-8,P<0.05,NS
Emergency	0	0	4	2	8	4	di 0,1 <0.05,115
OT	0	0	5	2.5	7	3.5	
Area of living							CV= 8.706,
Rural	0	0	14	7	6	3	TV=7.82,
Urban	2	1	65	32.5	113	56.5	df-2,P<0.02,S*
Any programme attended related	d to st	ress	_				CV= 6.754,
Yes	0	0	9	4.5	3	1.5	TV=6.63,
No	2	1	70	35	116	58	df-2,P<0.01,NS
Relaxation technique used							
Yoga	0	0	4	2	1	0.5	CV= 8.974,
Meditation	0	0	0	0	1	0.5	TV=12.59,
Listening to music	2	1	72	36	117	58.5	df-6,P<0.05,NS
Play	0	0	3	1.5	0	0	

DISCUSSION

FINDINGS RELATED TO LEVEL OF STRESS

Table 1 reveals that among 200 samples 2(1%) had Mild stress, 79(39.5%) had Moderate stress and 119(59.5%) had severe stress which is similar to the study conducted by Nirmanmoh bhatia, Jagul kshore, Tanu anand and Ram chander thiloha (2010) which reported the prevalence of occupational stress amongst nurses was 87.4%. Mean of stress is 67.86, Median of stress is 83 and Standard deviation is 12.3. The present study also emphasis that majority of the nurses are affected with stress

From the item analysis it is clearly evident that majority of the nurses 10(50.5%) feel they have a hectic schedule of work and it s felt by 130(65%) work under lots of pressure. Nurses are not happy with the salary received by them 83(41.5%) is low which is consistent with the findings of Demerouti, Bakker, Nachreiner, and Schaufeli (2000) where low salary is found as a source of stress and low salary was even a greater source of stress when work pressure was high.

Nurses feel that they have to walk a lot for providing care for the patient 94(47%). It is also felt that more work is assigned to them always 105(52.5%). For collecting reports of the patient 109(54.5%) nurses find it difficult due to the reporting system. Superiors are always finding fault with the nurses may be due the expectation and demand. 103(51.5%) felt that their colleagues enjoy more privileges than them. 114(57%) wants their work to be perfect which again adds up stress.116 (58%) find no time to enjoy the games or the leisure activities as identified by C.N.Rawal, Shradha A. Pardeshi (2014) where nurses have physical exertion and no time for leisure or break time it is explicit from table 4 that organizing the work to

provide patient care is difficult as they spend more time in walking and waiting for the reports to proceed with the further care. Most of them feel that workload is more as there may not be adequate staffs to render patient care which is revealed by the mean score of 1.751. Interpersonal relationship at work is harder and carrying out the responsibilities of personal and professional is becoming harder.

Highest level of stress was found in the age group between 21-30 years which could be due high demands from the organization and it could be beginning stage of their career. Stress is more prevalent among the female gender as nursing is a female dominated profession and the study participants where majority of them were female. It is also identified that unmarried nurses were mostly affected with high level of stress as this could be due to responsibilities they have at personal and professional life. In the years of experience between 1-3 have severe stress which indicates that growing years of experience leads to stress due to the demand and added responsibilities. Nurses working in wards and intensive care unit experience high level of stress. Nurses living in urban area have high level of stress. Listening to music is the commonly use relaxation technique used by majority of the nurses.

FINDINGS RELATED TO ASSOCIATIO N OF LEVEL OF STRESS AMONG NURSES WITH THEIR SOCIO DEMOGRAPHIC VARIABLES

In associating the level of stress with the socio demographic variables it is revealed that income and experience have significance at the level p<0.001 and area of living have significance association with the level of stress at the level p<0.02 and variables such as age, gender, religion, marital status, professional education, designation, area of work, programme attended related to stress, relaxation technique used have no significance association with the level of stress at the level of p<0.05 level

CONCLUSION

The study has identified that majority of the nurses have stress. It is also found that stress due to work organization and inter personal relationship at work is harder which adds up to the stress. It is evident in the present study that younger age group and women were commonly affected with severe stress. Income earned and place where they live also influences the stress. Strengthening the coping mechanism is vital.

RECOMMENDATIONS:

- 1. Work area should be arranged in such a way that nurses are easy access to all articles required for patient care
- 2. Interpersonal relationship among staff nurses and superiors must be improved
- 3. Stress among nurses can be organized by stress management programmes, skill training for conflict resolution and assertiveness training
- 4. Scheduling of patient care assignment can reduce the stress experienced due to work

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