Original Research Paper



THE STUDY WAS CARRIED OUT TO ASSESS QUALITY OF SLEEP AND PERCEIVED SLEEP DISTRACTORS AMONG PATIENTS ADMITTED AT MMIMS&R HOSPITAL MULLANA AMBALA.

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A good high-quality of sleep and it's have an effect on in daily existence of both the healthful and sick character turns into one of the most important cognizance of problem. Aims: The study aimed to assess the Quality of Sleep and Perceived Sleep Distractors among patients. Methods: Non-Experimental descriptive research design was conducted among 135 patients through convenient sampling technique. Modified Sleep quality Scale and Structured Perceived Sleep Distractors Perfoma was used. Results: Showed (27.4%) of the patients had poor quality of sleep, most of the patients (47.4%) were having fair quality of sleep. Most of the patients (52.6%) were having severe distractions while sleeping, less than half (44.4%) were having moderate level of distractions while sleeping only (3.0%) perceived very severe distraction during hospital stay. There was a moderate positive relationship between Quality of Sleep and Perceived Sleep Distractors Score(r=0.113, $p=0.19^{NS}$). Further the results also indicated that quality of sleep is only associated with Patient admitted in (department) ($\chi^2 = 30.652$, p=0.01) whereas perceived sleep distractors is associated with Education status ($\chi^2 = 17.280$, p=0.02), Duration of Hospitalization ($\chi^2 = 45.425$, p=0.00), Patient admitted in (department) ($\chi^2 = 28.066$, p=0.03). Conclusion: The study concludes that there is a need to identify factors responsible that hinders good quality sleep among patients admitted in hospital as well as the sleep quality can be enhanced by decreasing the sleep distractors and thus it can be helpful in the early recovery of the patients.

KEYWORDS: Quality of sleep, Perceived sleep distractors, Patients.

INTRODUCTION:

Sleep is a basic human need. It is a state of rest accompanied by alters consciousness. Sleep is one of the important elements of daily cycle and is referred to as the source of energy, mental improvement and pacifier. REM sleep is associated with improved blood flow to the brain, increased cortical activity, oxygen consumption, and release of nephrine. Metabolic rate decreases by 5- 25% during night sleep.

Poor sleep quality can decrease the person's feelings, thoughts, and motivation. Almost 70% of those referring to psychiatric clinics complain of sleep disorder; a percentage that cannot be neglected. About 50-70 million American humans particularly suffers from persistent sleep issues.

Additionally, inadequate sleep is linked to an increased body mass index (BMI), changes in the hormonal levels that

regulate hunger. Insomnia is a subjective complaint of dissatisfaction with the quantity, quality or timing of sleep. Generally less than 6 hours sleep is considered to be insomnia.

It has shown that poor quality sleep is the third most common health problem of older adults, ranking behind headaches and gastrointestinal disorders⁵ In a survey of greater than 9000 aged adults 65 years and older, 28% of hospitalized sufferers had complained the issue in beginning sleep, and approximately 42% folks stated difficulty in each initiating and retaining a great sleep.

Hospitalization is a difficult moment for a patient, in addition to the physical illness leading to admission and the psychological stress. Sleep disturbances were also frequently reported by hospitalized patients. Treatment of insomnia in the institutional setting is generally aimed at correcting underlying medical disorders, reducing environmental sleep disruptions. Hospitals are usually a place where having high-quality sleep is a challenge. Noise is another environmental factor that has been shown to disrupt sleep in inpatients. 12

METHODS

Quantitative Non Experimental Research study was carried out from April 2020-May 2021 to assess the quality of sleep among patients and perceived sleep distractors among patients admitted at MMIMS&R Hospital Mullana, Ambala through Convenient sampling technique. Data was collected from 135 subjects through telephonic interview technique using Modified Sleep Quality Scale and Perceived Sleep Distractors Performa Questionnaire.

INCLUSION CRITERIA

The study included the participants who were age 18 years and above, willing to participate, able to understand and respond in Hindi or English, alert, oriented, and comprehend to respond.

Data analysis

In sample characteristics data showed the comparison among patients. Less than half of the patients (23%) were in the age group of 33-46 years, more than half of the patients (52%) were in the age group 18-32 years whereas very few (13%) were in the age group of 47-59 years similarly (13%) patients were in 60 years and above. Most of the patients (53%) were male whereas less than half (47%) were female. Majority of the patients (58%) were married and less than 2/3rd patients were unmarried whereas least number of patients (6%) were separated/widow. Maximum patients (43%) were unemployed, less than $2/3^{rd}$ i.e. (24%) were employed and (18%) were home maker, (11%) of the patients was self employed or having their own business, minority of the patients (4%) was Government employee. Only (11%) the patients were non-literate and nearly 1/3rd of the patients were having primary education (23%) and graduation (24%) whereas approximately 2/3rd patients were having secondary level of education and very few were having post graduation and above education. Regarding family income least number of patients (15%) were having income <10,000 rupees and nearly half of the patients (38%) were having income between 10001-20000 rupees, and (28%) were having family income 20001-30000 rupees and least number of patients (16%) were having family income more than rupees 30001. Most of the patients (65%) were living in nuclear families whereas less than half were in joint families. Majority of the patients (74%) were suffering from acute illness less than half patients (26%) were chronically ill. Most of patients (73%) were hospitalized in hospital for about 3-6 days and less than half of the patients were hospitalized for about 7-14 days whereas very few patients were admitted to hospital for 15 days or more. More than 2/3rd of the patients (64%) said that they are not taking any

nap during day time but very few (36%) patients said that they are taking nap during day time. Almost all the patients (93%) said they are not adopting any measure to promote their sleep, but some said they are adopting some measures to adopt sleeping pattern. More than half of the patients (59%) were usually gone to bed between 10:01pm-12am and less than 2/3rd patients go to bed between 8pm-10pm. Most of the patients wake up between 5:31am-8am, whereas less than half of the patients (38%) wake up by 3am-5:30 am. (33%) of patients were from medical ward, (13%) were from surgery ward and (19%) were from orthopedics, (10%) were admitted in general ward whereas very few were admitted in TB Chest, Nephrology, Neurology, Gynecology, & ENT ward i.e.(27%) .



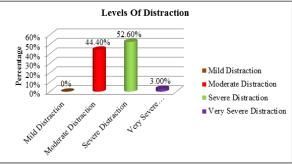


Figure 1: Cylindrical Bar graph showing level of quality of sleep & Perceived Sleep Distractors

Table 1: Range, Mean, Standard Deviation and Median in term of Quality of Sleep Scores Among Patients admitted at MMIMS&R Hospital Mullana, Ambala

Variable	Actual Range	Obtained range	Meαn ± SD	Median				
Quality of sleep	0-84	29-69	52.19 ± 11.67	55				
Perceived sleep distractors	0-72	11-58	34.77±8.27	36				

The mean score of and median for quality of sleep is patients was $52.19\pm11.67~\&~55$ with the range of 29-69, whereas for perceived sleep distractor 34 ± 8.27 and 36 the range of 11-58 respectively.

Table 2: Correlation between Quality of Sleep and Perceived Sleep Distractors Score among adult patients N=135

Pearson's Correlation	PAIR			
	SLEEP QUALITY	SLEEP		
	SCALE SCORE	DISTRACTOR		
Mean	Mean 52.193			
SD	11.667	8.265		
Correlation (r)	0.113			
P Value	0.19 ^{NS}			

NS-Not significant (p>0.05)

r = 0.113(0.169)

The Coefficient of Correlation between quality of sleep and perceived sleep distractors among the patients of MMIMS&R. The computed "r" value (0.113) between Quality of sleep and perceived sleep distractors was not significant i.e. 0.19 at 0.05 level of significance. The findings suggest that there is

moderate positive relationship between Quality of sleep scores and Perceived sleep distractors among patients.

Table 3: Chi square showing association of levels of Quality of sleep Among patients admitted at MMIMS&R Hospital Mullana, Ambala N=135

	ana, Ambal	α					N=135		
S.	Selected		Qι	iality of sle	ep				
no.	variables								
		POOR	FAIR	GOOD	χ²	df	Pvalue		
			QUALIT						
		TY OF	Y OF	OF SLEEP					
		SLEEP	SLEEP						
1				years)					
1.1	18-32	21	33	16	3.051	6	0.80 ^{NS}		
1.2	33-46	6	16	9					
1.3	47-59	3	8	6					
1.4	60 years	4	7	6					
	and above								
2				!					
2.1	Male	17	24	nder 22	4.745	2	0.09 ^{NS}		
2.2	Female	17	40	15		_	0.00		
3	Temale	17	-	l Status					
3.1	Married	15	39	24	4.924	4	0.29 ^{NS}		
_		17			+.524	4	0.45		
_	Unmarried		20	12					
3.3	Separated	2	5	1					
_	/widow (er)								
4	TT .			ent Status	n 0 · c	^	O EOMG		
4.1	Unemploy	14	31	13	7.346	8	0.50 ^{NS}		
	ment								
4.2	Employed	9	13	11					
4.3	Self-	4	4	7					
	employed/								
	Business								
4.4	Home	6	14	4					
L	maker								
4.5	Governmen	1	2	2					
	t Employee								
5	- 1		Educatio	n status					
5.1	Non-	4	6	5	8.272	8	0.40 ^{NS}		
	literate	_				_			
5.2	Primary	9	14	8					
J.2	Education								
5.3	Secondary	11	22	16					
0.0	Education	11	22	10					
_									
5.4	Graduation	7	21	5					
5.5	Post	3	1	3					
	graduation								
	and above								
6				nonth (in ru					
6.1	<10,000	5	13	2	5.331	6	0.50 ^{NS}		
6.2	10,001-	13	23	15					
	20,000								
6.3	20,001-	10	18	10					
	30,000								
6.4	>30,001	6	10	10					
7	-,	-		family	l .		-		
7.1	Nuclear	24	38	26	1.811	2	0.40 ^{NS}		
7.2	Joint	10	26	11	1.011		0.10		
8	ווווטן	10		Living			<u> </u>		
	IIvh ~~	10			4.681	2	0.09 ^{NS}		
8.1	Urban	19	22	18	4.001	4	0.03		
8.2	Rural	15	42	19					
9	-			sent illness		_	O - Mc		
9.1	Acute	26	51	23	3.886	2	0.14 ^{NS}		
9.2	Chronic	8	13	14					
10		uration (alization (i		s)			
10.1	3-6 days	22	54	23	9.111	6	0.16 ^{NS}		
10.2	7-14 days	10	8	12					
	15-22 days	1	2	1					
	23-30 days	1	0	1					
			-		ı				

11		Any n	ap takeı	n in day ti	me?			
11.1	No	22	37	27	2.350	2	0.30 ^{NS}	
11.2	Yes	12	27	10				
12	Are you ad	opting o	ny meas	sure to pro			sleep?	
12.1	No	30	61	34	1.658	2	0.43 ^{NS}	
12.2	Yes	4	3	3				
13	When have you usually gone to bed?							
13.1	Before 8 pm	0	0	2	6.689	4	0.15 ^{NS}	
13.2	8pm-10pm	11	28	15				
13.3	10:01pm- 12am	23	36	20				
14	What time	have yo	u usually	y gotten u	p in the	mc	_	
14.1	Before 3 am	0	0	0	2.423	4	0.65 ^{NS}	
14.2	3am- 5:30am	11	26	14				
14.3	5:31am- 8am	20	36	22				
14.4	After 8 am	3	2	1				
15	I	Patient I	Admitted	in (Depa	rtment)		
15.1	General ward	6	4	3	30.65 2	16	0.01*	
15.2	Surgical ward	3	8	6				
15.3	Orthopedi c ward	5	13	7				
15.4	Medical ward	14	25	5				
15.5	TB Chest ward	2	5	3				
15.6	Nephrolog y ward	3	2	4				
15.7	Neurology ward	0	0	5				
15.8	Gynecolog y ward	1	5	1				
15.9	ENT ward	0	2	3	1			
		_						

 $^{^{\}text{NS}}$ -Not significant (p > 0.05) *- significant (p \leq 0.05) $\chi^2(1)=3.84, \chi^2(2)=5.99, \chi^2(3)=7.82\,\chi^2(4)=9.44$

It infers that all the selected variables are not significantly associated (quality of sleep is not dependent on selected variables) as calculated p value was higher than 0.05.

This table indicates that quality of sleep is only associated with Patient admitted in (department) ($\chi^2 = 30.652$, p=0.01).

Table 4: Chi square showing association of perceived sleep distracters among patients admitted at MMIMS&R Hospital Mullana, Ambala N=135

S.	Selected								
no.	variables	Mild	Moder	Severe	Very	χ²	df	Pvalue	
		Distra	αte	distra	severe				
		ctors	distract	ctors	distract				
			ors		ors				
1			Āge	(in ye	ars)				
1.1	18-32	0	33	36	1	8.538	6	0.20 ^{NS}	
1.2	33-46	0	10	19	2				
1.3	47-59	0	6	11	0				
1.4	60 years	0	11	5	1				
	and								
	above								
2	Gender								
2.1	Male	0	25	36	2	1.086	2	0.58 ^{NS}	
2.2	Female	0	35	35	2				
3	Marital S	tatus							

						VOLUN	ΙE -	10, ISS	
3.1	Married	0	35	40	3	4.209	4	0.37 ^{NS}	
3.2	Unmarried	0	19	29	1	1.200	-	0.5,	
3.3	Separated/	0	6	2	0	1			
0.0	widow(er)	Ū		_					
4	Employmen	nt St	tatus						
4.1	Unemploy	0	30	27	1	9.269	269 8 0.32	0.32 ^{NS}	
	ment								
4.2	Employed	0	16	17	0				
4.3	Self-	0	3	11	1				
	employed/								
	Business				_	_			
4.4	Home	0	9	13	2				
	maker					_			
4.5	Governmen	0	2	3	0				
_	t Employee								
5	Education			_		15.000	_	0.00*	
5.1	Non-	0	7	6	2	17.280	8	0.02*	
E 0	literate		1./	1.77	0	4			
5.2	Primary Education	0	14	17	0	1			
5.3		0	17	20	0	-			
5.3	Secondary Education	U	17	30	2				
E 1	Graduation	0	21	12	0	+			
5.4	Post	0	1	6	0	+			
5.5	graduation	U	1	0	"				
	and above								
6	Family inco	ma	/month	(in run	006)				
6.1	<10,000	0	12	8	0	5.599	9 6	6 0	0.47 ^{NS}
6.2	10,001-	0	24	25	2	- 0.000		0.17	
0.2	20,000	Ü		20					
6.3	20,001-	0	13	23	2	†			
0.0	30,000	Ū			_				
6.4	>30,001	0	11	15	0	1			
7	Type of fam	ilv				1		1	
7.1	Nuclear	0	38	48	2	0.680	2	0.71 ^{NS}	
7.2	Joint	0	22	23	2				
8	Areα of Livi	ng			ı	1			
8.1	Urban	0	20	36	3	5.629	2	0.06 ^{NS}	
8.2	Rural	0	40	35	1				
9	Type of pre	sen	t illnes	s		-			
9.1	Acute	0	48	49	3	2.046	2	0.36 ^{NS}	
9.2	Chronic	0	12	22	1				
10	Duration of	hos	spitaliz		n days)			
10.1	3-6 days	0	57	42	0	45.425	6	0.00*	
10.2	7-14 days	0	2	25	3	1			
10.2	15-22 days	0	1	3	0				
10.3					1	7			
	23-30 days	0	0	1	1		_		
					1		_		
10.4	23-30 days				3	5.040	2	0.08 ^{NS}	
10.4 11 11.1	23-30 days Any nap ta No	ken	in day	time?		5.040	2	0.08 ^{NS}	
10.4 11 11.1 11.2	23-30 days Any nap ta No	ken 0	in day 32 28	time? 51 20	3			leep?	
10.4 11 11.1 11.2 12 12.1	23-30 days Any nap ta No Yes Are you ado No	ken 0	in day 32 28	time? 51 20	3			leep?	
10.4 11 11.1 11.2 12	23-30 days Any nap ta No Yes Are you ado No	ken 0 0 optin	in day 32 28 ng any	time? 51 20 measure	3 1 e to pro	mote you	ır s	leep?	
10.4 11 11.1 11.2 12 12.1	23-30 days Any nap ta No Yes Are you ado No	ken 0 0 optin 0	in day 32 28 ng any 55 5	51 20 measure 67 4	3 1 e to pro	2.206	ır s	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm	ken 0 0 optin 0	in day 32 28 ng any 55 5	51 20 measure 67 4	3 1 e to pro	2.206	ır s	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1	23-30 days Any nap ta No Yes Are you add No Yes When have	ken 0 0 ptin 0 0 you	in day 32 28 ag any 55 5 u usua	51 20 measure 67 4 lly gone	3 1 2 to proposed to bed	2.206	ar s	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm	ken 0 0 ptir 0 0 you	in day 32 28 19 any 55 5 1 usua	time? 51 20 measure 67 4 lly gone	3 1 2 to prod 3 1 1 to bed	2.206	ar s	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm 8pm-10pm 10:01pm- 12am	ken 0 0 ptin 0 you 0	in day 32 28 ag any 55 5 1 usua 1 26 33	time? 51 20 measure 67 4 lly gone 1 28 42	3 1 2 to proper 3 1 1 to bed 0 0 4	2.206 ? 3.156	2 4	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2 13.3	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm 8pm-10pm 10:01pm-	ken 0 0 ptin 0 you 0	in day 32 28 ag any 55 5 1 usua 1 26 33	time? 51 20 measure 67 4 lly gone 1 28 42	3 1 2 to proper 3 1 1 to bed 0 0 4	2.206 ? 3.156	2 4	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2 13.3	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm 8pm-10pm 10:01pm- 12am	ken 0 0 ptin 0 you 0	in day 32 28 ag any 55 5 1 usua 1 26 33	time? 51 20 measure 67 4 lly gone 1 28 42	3 1 2 to proper 3 1 1 to bed 0 0 4	2.206 ? 3.156	2 4	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2 13.3 14 14.1	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm 8pm-10pm 10:01pm- 12am What time k	optin 0 0 pptin 0 0 you 0	in day 32 28 ag any 55 5 usua 1 26 33	1 time? 51 20 measure 67 4 lly gone 1 28 42 sually go	3 1 e to proof 3 1 to bed 0 0 4	mote you 2.206 ? 3.156	ar s	0.33 ^{NS}	
10.4 11 11.1 11.2 12 12.1 12.2 13 13.1 13.2 13.3 14 14.1	23-30 days Any nap ta No Yes Are you add No Yes When have Before 8 pm 8pm-10pm 10:01pm- 12am What time h Before 3 am	vertical of the second of the	in day 32 28 39 any 55 5 1 usua 1 26 33	time? 51 20 measure 67 4 lly gone 1 28 42 sually go	3 1 e to propose 3 1 to bed 0 0 4 otten up	mote you 2.206 ? 3.156	ar s	0.33 ^{NS}	

8am

15.1

14.4 After 8 am

General

ward

3

Patient Admitted in (Department)

0

0 | 1

2

11

28.066 16 0.03*

11	, NOV	EMBER - 2021	• PR	INT ISS	N No. 227	7 - 8160 •	DOI: 1	0.3	6106/gjra
	15.2	Surgical ward	0	6	10	1			
	15.3	Orthopedic ward	0	17	8	0			
	15.4	Medical ward	0	24	19	1			
	15.5	TB Chest ward	0	4	6	0			
	15.6	Nephrology ward	0	2	6	1			
	15.7	Neurology ward	0	1	4	0			
	15.8	Gynecolog y ward	0	5	2	0			
	15.9	ENT ward	0	0	5	0			

NS -Not significant (p>0.05)*- significant (p \leq 0.05) $\chi^2(1) = 3.84$, $\chi^2(2) = 5.99$, $\chi^2(3) = 7.82$ $\chi^2(4) = 9.44$

It infers that all the selected variables are not significantly associated (perceived sleep distractors is not dependent on selected variables) as calculated p value was higher than 0.05.

This table indicates that perceived sleep distractors is only associated with Education status ($\chi^2=17.280,\ p=0.02$), Duration of Hospitalization ($\chi^2=45.425,\ p=0.00$), Patient admitted in (department) ($\chi^2=28.066,\ p=0.03$).

DISCUSSION

In the present study, (27.4%) of the patients had poor quality of sleep, most of the patients (47.4%) were having fair quality of sleep, and nearly $1/3^{\rm rd}$ (25.2%) of patients were having good quality of sleep. The findings of the study is consistent with the study conducted by S.S Maryam, B. Shaiju, J. Neha et al. (2017) on assessment of quality of sleep and perceived sleep distractors among hospitalized patients, where they found that less than half of the (18%) were having mild disturbed sleep, whereas more than half of the patients (56%) were having moderate disturbed sleep, less than $1/3^{\rm rd}$ patients were having severely disturbed sleep (26%).

In the present study, it showed that most of the patients (52.6%) were having severe distractions while sleeping, less than half (44.4%) were having moderate level of distractions while sleeping only (3.0%) perceived very severe distraction during hospital stay. These findings were contradictory to the various studies conducted by Preeti, A. Siddiqui, Eenu et. Al. (2018) Only (16.7%) adult patients always perceived pain as sleep distractors and only 0.07% of adult patients always perceived uncomfortable bed, bright light and telephonic conversation as perceived sleep distractors and (40.70%) of adult patients sometimes perceived pain as sleep distractors and no one perceived humidity, ventilation, uncomfortable bed, banging of doors, trolley wheels, sweeping/dusting, monitor alarm and Telephonic conversation of visitors as sleep distractors. All the adult patients (100%) never perceived humidity, ventilation, banging of doors, trolley wheels, sweeping/dusting and monitor alarm as perceived sleep distractors. Whereas only (30%) of adult patients never perceived pain as perceived sleep distractors.

In the present study Most of the patients 42.59% perceived nursing station noises as sleep distractor and 51.85%. Half of the patients 55.56% rarely perceived lack of privacy as sleep distractor, whereas 36.30% considered continuous medical and nursing rounds as sleep distractors, only 41.48% perceived pain as sleep distractor rarely and 42.96% perceived visitor noises as sleep distractor, whereas 34.81% rarely distracted due to prolonged same positioning. These findings are contradictory to the study conducted by S. Kulpatcharapong, P. Chewcharat, K. Ruxrungtham (2020) where they found the factors reported by patients with poor

sleep quality temperature, hot temperature, dyspnea, polyuria, procedure, and disturbance by visitors, mosquito in hospitalized patients to be ranging between 43% and 91%. Light exposure can affect the patients' circadian rhythm which can cause sleep disturbance and lead to poor sleep quality.

CONCLUSION

Majority of the patients had fair quality of sleep among patients. Whereas about $1/3^{\rm rd}$ patients were having good quality of sleep and few were having poor quality of sleep. The reason for having poor quality of sleep is due to moderate to severe form of distraction in hospital.

The overall level of patients' quality of sleep is fair. There was positive correlation between quality of sleep and perceived sleep distractors. There was significant association of quality of sleep with patient admitted in (department). Whereas in perceived sleep distractor the association is with education status, duration of hospitalization, patient admitted in (department). Concerned authorities should work on improving the caring environment in the usual classes for improving quality of sleep by controlling the distractors.

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