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ARIPET SELEC		IGINAL RESEARCH PA	Psychiatry					
		CTIVENESS OF MUSIC THERAF UCINATION (AVH) AND ASSO RESS (ED) AMONG PATIENTS CTED SETTINGS AT MANGAL	KEY WORDS: Audio Verbal Hallucination; Emotional Distress; Effectiveness; Selected music; Self- selected music.					
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LUCK Audio verk as a distract Materials Selected M Results: T (F=195.12 F=2.04,p< Conclusion group. Bot	Audio verbal hallucinations are the most common distress factor among 75% of patients with schizophrenia. Music therapy acts as a distracting the mind from hallucinations and it brings them back to live in reality world. Materials and Methods: A quasi experimental study was conducted on 60 subjects with Selected Music (30 in group I) & Self Selected Music (30 in group II) groups, Results: The study findings showed that significant difference between the mean pre and post-test scores of AVH & ED in SM (F=195.12, F=231.16, p<0.001) & in SSM (F=189.52, F=114.42, p<0.001) were significantly greater than table value F=2.04,p<0.05 level of significance. Conclusion: The findings revealed that Selected Music was more effective in reducing AVH & ED than the Self Selected Music							
 Introduction: Patients with psychosis experience lots of audio verbal hallucination which causes emotional distress. It interferes their relationships with people and their work. Finally person gets preoccupied with the unreality world and disconnected from the real world. Music has a positive effect and found to be a good relaxation.³Engaging the person to listen to a music acts as a form of distracting the mind from the content of AVH and it brings them back to live in reality. Mrs Chanu Bhattacharya 			 mood disorders 8. Variable Independent Variable – Music Therapy Dependent Variable - Audio verbal Hallucination and emotional distress 9. Data collection instruments Base Line Proforma 14 items Audio Verbal Hallucination(AVH) – Psyrats –A rating scale questionnaire (pre -assessment) Distress thermometer (DT) Scale (post – assessment) 					
 To assess audio verbal hallucination (AVH) and associated emotional distress (ED) after introduction of therapy with selected music (Group I) and self-selected music (Group II). To find the correlation between audio verbal hallucination (AVH) score and emotional distress (ED) score of Group I and Group II. To determine the association of audio verbal hallucination (AVH) and associated emotional distress(ED) with demographic variables of patients in Group I and Group II. 		 10. Description of the Tool: Tool 1: Baseline proforma with 14 items This section had items such as age in years, gender, education, marital status, religion, education, occupation, family income, duration of illness, type of family, presence of any other psychiatric patient in family, no of hospitalization, medication and diagnosis. Tool 2: It is a standardized tool which was developed with 0-5 scale with cross. Quidicator absent or pagative symptoms and cross 140 						
 Materials and Methods: Setting: The study was conducted in Psychiatric Unit of Father Muller Medical College Hospital, Mangaluru. 		5 indicate present or positive symptoms. Scoring is calculated by summing of all the 11 items.						
2. Research app	2. Research approach : Evaluative approach		Tool 3: It is a standardized tool where the subject is asked to circle the number on the thermometer (0-10 point scale) which describes the extent of distress experienced in the past week.					
3. Research de time series des	3. Research design: Quasi experimental repeated measures time series design.		Description of the music:					
4. Sample : 60 Seach.	Sample : 60 Subjects with psychosis having 2 groups with 30 each.		I. Selected music: (Group I) It refers to the administration of rhythmic and melodious tune 'VISHRAM' taken from different Indian instrument music which consists of 8 varieties of instrumental music recorded on a CD					
5. Sampling tee	chnique: Purp	osive sampling	selected by the investigator .					
 Inclusion Crit Subjects who Both male an selected psych Subjects who (AVH) and mile Subjects who 	teria are aged betw d female sub iatric hospital, are assessed d to severe dist are addicted fo	een 18-65 yrs. jects who were in in-patients of admitted with psychosis with audio verbal hallucinations rress. or alcohol and substance users.	 2. Self selected music: (Group II) It refers to the self selected music/ choice of the patient and intended to remove distress and the mind will wake up to a sense of relaxation. Data collection procedure The investigator obtained permission from the concerned 					

7. Exclusion Criteria

- Subjects who are very violent and aggressive
- Those who are not able to communicate and were distractive
- Those who have a co morbid illness or mental retardation or
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Purposive sampling was used for the study. The Purpose of the

study was explained & brief introduction about the music was

given. Patients were asked to select the music (with double blinded

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groups. First the baseline proforma was given, then PSYRATS–A as pre- test rating scale for 5 days was administered after its completion, Music therapy was given for 15 minutes for 5 days, followed by DT scale as a post-test was administered for 10 days (every alternative days 5 days).

Major findings of the study:

Section I: Baseline variables of the patients would be analyzed by frequency and percentage.

Among 60 subjects (30 in SM group and 30 in SSM group). In both the groups, majority of the subjects were in the age group of 30-40 yrs that is 15(50%) in SM and 13(43.4%) in SSM. In both the groups, majority of the subjects were Males that is 16(53.4%) in SM and 21(70%) in SSM.

In both the groups, the majority of the subjects had illness for>3years, (66.6%) in SM group and 76.7% in SSM.

Majority of the subjects 16(53.4%) had presence psychiatric patient in their family in SM, whereas, 9(30%) had in SSM.

In both the groups, the majority of the subjects (66%) had schizophrenia in SM, whereas 53.4% in SSM.

Section II: Assessment of AVH and associated EDscale with selected music was analysed using the repeated measures ANOVA.

The data presented in the table1shows that the computed ($F_{0.589}$ =195.12, p<0.001) of AVH and (F=231.16, p<0.001) of emotional distress is significantly greater than the tabled value ($F_{0.2589}$ =2.04 p<0.05), which indicates that there is a significant difference in the pre and post-test scores of AVH and ED in the selected music group and inferred that music therapy is effective in reducing AVH and emotional distress.

Section III: Assessment of AVH and associated ED scale with selfselected music was analysed using the repeated measures ANOVA.

The data presented in the table 2 shows that the computed ($F_{(2,58)}$ =189.52, p<0.001) of AVH and (F=114.42, p<0.001) of emotional distress is significantly greater than the tabled value ($F_{(2,58)}$ =2.04 p<0.05), which indicates that there is a significant difference in the pre and post-test scores of AVH and ED in the self-selected music and inferred that music therapy is effective in reducing AVH and emotional distress.

Section IV: Assessment of AVH & associated ED scores between selected and self- selected music group will be analyzed usingunpaired t test.

The data in table 3 shows that the calculated t value of AVH score 8.04 and distress score 7.08 in selected and self-selected, is greater than the table value 2.00. The results revealed that, both types of music therapy had significant effect on the reduction of AVH and emotional distress.

Section V: Correlation between the pre-test and post-test scores of AVH and associated emotional distress(ED) will be analyzed by using Karl's Pearson correlation coefficient.

The findings of the present study in table 4 shows that there is a significant negative correlation score (r=-0.03) 1stday, (r=-0.11) 5thday between AVH and emotional distress in selected music, where as there is significant positive correlation score (r=-0.05) 1stday, (r=-0.39) 5thday between AVH and emotional distress in self-selected music at 0.05 level of significance.

SectionVI:

Association of audio verbal hallucination (AVH) and associated emotional distress (ED) with demographic variables in selected music (SM).

The calculated 'p' values of demographic variables with AVH and

ED scores of type of family ($\chi 2=0.03$), diagnosis ($\chi 2=0.09$) and job status ($\chi 2=0.009$) are lesser than the p<0.05 level of significance. Whereas there is no significance association with other demographic variables.

 Association of audio verbal hallucination (AVH) and associated emotional distress(ED) with demographic variables in selfselected music (SSM).

The calculated 'p' values of demographic variables with AVH and ED scores of diagnosis ($\chi 2=0.01$), type of family ($\chi 2=0.03$) and occupation ($\chi 2=0.01$) are lesser than the p<0.05 level of significance.Whereas there is no significance association with other demographic variables.

Discussion:

In the present study, the mean pre and post -test score of AVH $(38.26\pm1.68),(24.06\pm1.61)$ and ED $(9.03\pm0.85),(3.66\pm0.8)$ in SM was significantly lower than the mean pre and post -test score of AVH $(39.20\pm1.49),(30.36\pm2.96)$ and ED $(8.36\pm0.80),(5.23\pm0.9)$ in SSM.

The findings of the present study is congruent with the study conducted in Korea, which showed that there was a significant decrease in the mean scores of positive and negative symptoms of schizophrenia, after listening to music in group AB (97.73±22.60) than Group BA (104.9±12.58).

Conclusion:

 From the present study it was found that the Selected Music was more effective in reducing AVH & associated ED than the Self Selected Music. Majority of the patients experienced maximum reduction in AVH and associated ED. Therefore music therapy can be easily integrated into Bed side nursing and plays an important part in decreasing distress and maximum relaxation for nurses, patients and relatives and it helps students to give a new way for their patients order to maintain a psychological and physical equilibrium.

Table1: Distribution of Mean, SD and RM ANOVA scores to showthe effectiveness of music therapy on AVH and ED scores withselected music from1sto 5thdays.N=30

Observ	AVH scores			ED scores		
ation	Mean±SD	RM	p	Mean±SD	RM	p
		F value	value		Fvalue	value
O ₁ (Pre	38.26±1.68			9.03±0.85		
interve						
ntion)		195.12*	<0.00		231.16*	<0.00
0 2	35.06±2.61		1*	8.26±0.78		1*
Ο,	31.20±3.39			7.33±1.02		
Ο 4	27.26±3.80			5.90±1.24		
Ο 5	24.06±1.61			3.66±0.80		

F=2.04, p<0.05

*significant

Table 2:Distribution of Mean, SD and RM ANOVA scores to showthe effectiveness of music therapy on AVH and ED scores with Self-Selected music from1 to 5days.N=30

Observa	serva AVH scores			ED scores			
tion	Mean±SD	RM ANOVA F value	p value	Mean±SD	RM ANOVA F value	p value	
O₁(Pre interven tion)	39.20±1.49	189.52*	<0.00	8.36±0.80	114.42*	<0.00	
0,	35.80±2.61		1	8.00±0.87		1^	
Ο,	31.76±2.43	1		7.20±0.84			
Ο 4	29.60±2.41			6.23±1.13			
Ο 5	30.36±2.96			5.23±0.97			

F=2.04, p<0.05

*significant

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Table 3: Distribution of Mean difference, SDs, un paired't' test value of AVH and ED scores with selected & self -selected music groups.

Variables A V H	Music	Mean difference ± SD	Obtained 't' Value	p value
(1-5days)	Selected (S)	14.2 ± 2.17		
	Self-selected (SS)	8.83 ± 2.93	8.04*	<0.00 1*
E D	Selected (S)	14.2 ± 2.17		
(1-10 days)	Self-selected (SS)	8.83 ± 2.93	8.04*	<0.00 1*

t58=2.00, p<0.05

*significant

Table 4: Correlation between AVH & associated ED scores with selected and self-selected music. N=30+30

	Selected	Music Gro	Self-Selected Music Group			
	AVH	ED		AVH	ED	
	Mean ± SD	Mean± SD	r	Mean ± SD	Mean ± SD	r
1st Day	38.26±1.68	9.03±0.85	031	39.20±1.4	8.36±0.80	.051
5th Day	24.06±1.61	3.66±0.80	115	30.36±2.9	5.23±0.97	.394

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