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QUALITY OF LIFE IN PATIENTS WITH MENTAL AND BEHAVIORAL DISORDERS AFTER APPLICATION OF GROUP THERAPY

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ABSTRACT

Background: People with mental and behavioural disorders have low satisfaction of quality of life, due to numerous symptoms, as well as poor interpersonal relations, communications skills, low tolerance on frustration.

Aim: The aim of this paper was to evaluate whether there has been an improvement in satisfaction with the quality of life after the application of group therapy

Methods: The study included 100 patients who attended group therapy, for a period of 6-12 weeks. The instruments used at the beginning and at the end of the treatment were Outcome Questionnaire-45 which measured symptoms distress, interpersonal relations, and social roles, and MANSA questionnaire that measured satisfaction with the quality of life.

Results: In total sample (N = 100) there was approximately equal number of women and men (51% vs. 49%). The average age of the subjects was 48.11 ± 7.91 . Majority of respondents had depressive disorder (45%). Measuring the mean values obtained on the OQ-45 questionnaire, it was found that after the application of group therapy a significant reduction of the level of dysfunction was achieved. A statistically significant difference was found in the areas of satisfaction with physical and mental health, and the overall score of the MANSA questionnaire.

Conclusion: Results show that patients reported lower symptoms distress and higher satisfaction with quality of life after attending group therapy, better interpersonal relations, lower risk of suicidal behaviour and substance abuse. Group therapy is successful intervention which helps patients improve quality of life.

Keywords: group therapy, mental disorders, behavioural disorders.

INTRODUCTION

Mental disorders and behavioural disorders are one of the leading public health problems and causes of disability in the world [1]. Persons with mental disorders and behavioural disorders have difficulties in interpersonal relationships and the social roles assigned, which affects their ability to successfully respond to the demands required by the community in which they function. Priebe et al. (2004) state that people who have sought psychiatric help, and have more post-traumatic, depressive and anxiety disorders, have poorer quality of life [2].

The research suggests that persistent mental disorders such as dysthymia, agoraphobia, generalized anxiety disorder, social phobia, schizophrenia, alcohol dependence and other psychoactive substances are associated with poor quality of life [3,4,5].

One of the challenges in using the concept of "quality of life" as the basis for measuring the outcome of treatment is that it can be defined and, accordingly, measured in countless ways [6]. For this reason, the concept of quality of life is defined differently. One of the definitions of quality of life refers to the ability to perform social and personal tasks, appropriate to age, sex, intelligence and belonging to the existential class [7]. However, there are also views that the quality of life is the perception of an individual about his own situation in comparison with his goals based on the value system he has accepted. Therefore, quality of life involves overall satisfaction, or dissatisfaction with one's own life [8].

Bosnia and Herzegovina is a country that was affected by war, whose consequences are felt even today [9,10]. Among the important consequences of war include an increased number of health and mental health problems of the population

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in post-war communities [11]. Among other things, the consequences also affect the normal functioning of the population that was exposed to war, or numerous traumatic experiences. In addition, Bosnia and Herzegovina is a country in transition, with extremely unsatisfactory socio-economic conditions and a high unemployment rate, which is an additional pressure both, on the individual's mental health and on the quality of life. The results of the National Vietnamese study on re-adapting male and female veterans show that subjects with PTSD had a significantly increased risk of reduced functioning in different aspects of life [12,13].

In order to make quality interventions plan to meet the needs of the patient, it is necessary to make the assessment of the quality of life in order to gain insight into the sphere of life in which the patient shows a reduced functionality. For this reason, a number of instruments are used, which in specific ways, measure the quality of life of persons with mental and behavioural disorders. Based on an adequate assessment, an intervention plan that is acceptable to the patient and effective is made.

In addition to pharmacotherapy interventions, in effort to help people with mental and behavioural disorders improve the quality of life, a range of psychotherapy interventions of different modalities are used. Wolberg (1995) states that psychotherapy is a method of treating the problem of an emotional nature with a psychological way, in which a therapist establishes professional relationships with a patient / client for the purpose of eliminating, modifying or alleviating the intensity of existing symptoms, and modifying disordered behaviour patterns as well as encouraging positive growth and development personality [14]. These kind of interventions help the patient gain insight, restore self-confidence, experience a corrective emotional experience, improve communication skills, raise the threshold of tolerance to frustration, improve interpersonal relationships, or functioning in general. One of the possible approaches in dealing with patients with mental and behavioural disorders is the model of partial hospitalization, the type of day hospital, where group therapy is dominant intervention. Day hospital is a time-limited structured program of diagnostics, treatment and rehabilitation or recovery based on various psychotherapy and sociotherapy techniques. An important goal of this type of treatment is to improve interpersonal relations, communication with others, and adequate social functioning, which is achieved

AIM

The aim of the study was to examine whether and in which domains, improvement of quality of life satisfaction was achieved in patients with mental and behavioural disorders after group therapy was applied therapy.

through various forms of psychotherapy activities, as

well as group meetings in a friendly atmosphere [15].

METHODS

The study was a prospective two-year study conducted in the period from March 2017 to April 2019 at the Clinic for Psychiatry of Public Health Institution University Clinical Centre Tuzla. The study included 100 patients treated at the Day Hospital with established mental and behavioural disorder, where group therapy was applied as a treatment intervention. The research involved patients who during the research period consecutively came to the treatment at the Clinic for psychiatry, for whom the group therapy program was indicated and who gave voluntary consent for participation in the research before being introduced into group therapy. Respondents were involved in group treatment for 6-12 weeks, involving 24-48 sessions of a small therapeutic group and 24-48 sessions of the middle therapeutic group. A small group was composed of 8 - 12 members, and middle group of 16-28 members. A small the rapeutic group was conducted by educators-rehabilitators with education from Gestalt-based psychotherapy and group analysis, a small sociotherapy group was conducted by nurse with introduction course from group-analyses, while the middle therapeutic group was conducted by psychiatrists with group analysis and group psychotherapy education. The research was conducted as a test-retest, immediately upon admission to the Day Hospital, and prior discharge from the Day Hospital. Respondents were tested using the Outcome Questionnaire -45 (OQ-45) rating their feelings on five-point Likert scale ranging from 0 to 4. The score of three domains was calculated - Symptomatic Distress, Interpersonal Relations and Social Role as well as total score. It also highlights 4 items for risk behaviour [16]. To question satisfaction with the quality of life it was used Manchester Short Assessment of Quality of Life (MANSA), a seven-point scale which was designed to measure subjective satisfaction with the quality of various aspects of life (e.g. work, financial situation, family relationships, etc.), as well as the overall quality of life. An objective assessment of the quality of life refers to the existence of a friend, as to whether the patient has been the victim of physical violence, or the culprit of a crime [17].

The data were analyzed using SPSS 20.0 version for Windows, by calculating the mean, t-test, chi-square test and regression analysis. The value of p <0.05 was taken for statistical significance.

RESULTS

In the total sample (N = 100), the number of women and men was approximately equal (51% vs. 49%). The average age of the subjects was 48.11 ± 7.91 . Sociodemographic characteristics of the respondents in respect to gender are shown in Table 1. The average hospitalization length of patients in the Day Hospital was $74.47 \pm 19,712$ days.

Table 1. Socio-demographic characteristics of respondents in respect to gender

Characteristics	Male	Female	Total	χ², p
	N (%)	N (%)	N (%)	
Education				$\chi^2 = 3.67$ p = 0.453
Primary school	3	7	10	
High school	40	34	74	
College	3	3	6	
Graduate	2	5	7	
Postgraduate	1	2	3	
Working status				$\chi^2 = 2.003$ p = 0.367
Employed	29	30	59	
Unemployed	20	19	39	
Retired	-	2	2	
War status				$\chi^2 = 50.75$ p<0.001
Demobilized person	30	3	33	
Disabled war veteran	6	-	6	
Civilian victim of war	2	1	3	
None	11	47	58	
Place of living				$\chi^2 = 5.78$ p = 0.016
City	23	36	59	
Village	26	15	41	
Marital status				$\chi^2 = 9.13$ p = 0.06
Single	4	5	9	
Common law marriage	-	4	4	
Married	43	34	77	
Divorced	2	6	8	
Widow/er	-	2	2	
	-			

In respect to mental disorders and gender, the highest number of respondents was with depressive disorder (45%), of which 73% were women and 27% men (Table 2).

Table 2. Distribution of respondents in respect to diagnostic groups and gender

Diagnostic groups	Male	Female	Total
	N (%)	N (%)	N (%)
Depressive disorder	12	33	45
Anxiety disorders	4	3	7
Posttraumatic stress disorder	9	4	13
Adjustment disorder	17	7	24
Permanent personality changes after catastrophic experience	5	1	6
Dissociative and other disorders	2	3	5
Total	49	51	100

By measuring the mean values obtained on OQ-45, it was found that the average values, both of the total OQ-45 score, as well as of the symptomatic distress, interpersonal relationships and social roles domains, upon the involvement in treatment were in the level of high dysfunction, and that after the application of group therapy, significant reduction in the level of dysfunction was achieved (Table 3).

Table 3. The mean values of treatment outcome measured OQ-45 upon admission and prior discharge from treatment (N=100)

	_	nission to	Prior discharge from		p*	
Outcomes of treatment OQ-45	treat	ment	treatment			
	M	SD	M	SD		
Total score OQ-45	104.78	23.31	96.62	27.16	<0.001	
Symptomatic distress	61.85	13.75	55.51	15.27	<0.001	
Interpersonal relations	21.09	7.44	20.23	7.78	<0.001	
Social role	19.21	6.26	18.65	6.52	0.005	

*t-test

After application of group therapy, significantly lower values were obtained at the level of suicidality (1.45 \pm 1.32 vs. 1.00 \pm 1.11) (t-test = -3.857, p <0.001), while there was no significant difference in values of abuse of alcohol and psychoactive substances (0.27 \pm 0.52 vs. 0.38 \pm 0.75) (t-test = -1,137, p = 0.257) and aggressiveness (1.73 \pm 1.48 vs. 1.78 \pm 1.45) (t - test = -0.339, p = 0.735). Majority of respondents after treatment did not have suicidal thoughts and did not abuse substances, while a slightly higher number of them manifested violence (Table 4.)

Table 4: Distribution of patients in respect to risky behaviours upon admission and prior to discharge from treatment (N=100)

Risky behaviour measured by OQ-45	Upon admission to treatment				Prior discharge from treatment			
	Yes		No		Yes		No	
	N	%	N		N	%	N	%
Suicidality	68		32		56		44	
Substance abuse	29		71		26		74	
	68		32		73		27	

Although in all domains on the questionnaire satisfaction with quality of life was found to be higher mean values at the end of the treatment compared to the mean at the beginning of the treatment, a statistically significant difference was found in the domains of satisfaction with physical health, mental health and the overall score of the MANSA questionnaire (Table 5).

When asked if they have someone they can call a close friend 78/100 patients responded positively upon admission to treatment, while the 71/100 patients responded positively at end of the treatment. When asked if they had seen one of their friends in the past week, 55/100 patients responded positively upon admission to the treatment, while at the end of treatment, 63/100 patients responded positively, and there was significant difference ($\chi 2 = 18.568$, p <0.001), comparing beginning and end of the treatment. When asked if they were accused of a criminal offense in the past year, 3/100 patients responded positively, and 13/100 patients responded positively to the question of whether they were victims of physical violence in the past year.

Upon to admission to treatment, a higher number of patients with depression had suicidal ideations compared to the number of patients with other mental disorders, but without statistically significant difference (χ_2 =0.364, p = 0.546). After completing treatment suicidality was reduced in a significant number of patients without depression, but without statistically significant difference (χ_2 =0.3778, p = 0.052). No significant difference was found in the number of patients with depression and other mental disorders regarding alcohol and other substance abuse prior admission (χ_2 = 3.219, p = 0.073) and prior discharge from treatment (χ_2 = 1.531, p = 0.216). Higher number of patients with other mental disorders than patients with depression showed symptoms of aggressiveness prior discharge from treatment, but without statistically significant difference (χ_2 = 1.665, p = 0.197) (Table 5).

Table 5. Distribution of patients with depression and other mental disorders related to risk behaviour (N = 100)

		Upon adm treatn		Prior discharge from treatment	
		Depressive disorder (n=45) N (%)	Other mental disorders (n=55) N (%)	Depressive disorder (n=45) N (%)	Other mental disorders (n=55) N (%)
Suicid-	Yes	32 (71.1)	36 (65.5)	30 (66.7)	26 (47.3)
ality	No	13 (28.9)	19 (34.5)	15 (33.3)	29 (52.7)
Sub-	Yes	9 (20.0)	20 (36.4)	9 (20.0)	17 (30.9)
stance abuse	No	36 (80.0)	35 (63.6)	36 (80.0)	38 (69.1)
Aggres-	Yes	31 (68.9)	37 (67.3)	30 (66.7)	43 (78.2)
siveness	No	14 (31.1)	18 (32.7)	15 (33.3)	12 (21.8)

Table 6. Mean values of domain of satisfaction with the quality of life upon admission and prior discharge from treatment

Domains of satisfaction with quality of life	Upon admission to treatment		Prior discharge from treatment		t	р
	M	SD	M	SD		
Satisfaction with personal life	3.80	1.43	3.95	1.38	-1.20	0.223
Satisfaction with employment/unemployed/ being retired	2.87	1.62	2.88	1.61	-0.65	0.948
Satisfaction with financial situation	3.40	1.69	3.46	1.70	-0.586	0.559
Satisfaction with number and quality of friendships	3.78	1.38	3.92	1.35	-1.050	0.296
Satisfaction with free time activities	3.34	1.39	3.57	1.39	-1.950	0.054
Satisfaction with accommodation	5.05	1.38	5.01	1.42	0.373	0.710
Satisfaction with personal security	3.81	1.43	3.95	1.49	-1.000	0.320
Satisfaction with household inmates/or if living alone	5.11	1.54	5.15	1.46	-0.327	0.744
Satisfaction with sexual life	3.74	1.86	3.87	1.76	-0.912	0.364
Satisfaction with family	4.90	1.50	4.91	1.43	-0.080	0.936
Satisfaction with physical health	3.14	1.33	3.53	1.34	-3.236	0.002
Satisfaction with mental health	2.52	1.14	3.20	1.46	-5.529	<0.001
MANSA Total	3.79	0.90	3.95	1.04	-2.594	0.011

*t-test

Using regression analysis, it was found that 77.6% of the total variance of satisfaction with quality of life can be explained by indicators of outcomes group treatment [F (3.100) = 95.804, p <0.001], with a significant interpersonal relationship (β = -0.636, p <0.001) and symptoms of distress (β = -0.291, p = 0.002).

DISCUSSION

An analysis of the results of this study suggests a significant improvement in overall satisfaction with the quality of life, physical and mental health of patients with mental and behavioural disorders after application of group therapy. The results obtained showed that group therapy as a psychological intervention applied within structured Day hospital treatment contributed to improving the satisfaction with quality of life by improvement of interpersonal relationships and reduction of distress. A similar study conducted in Croatia on 124 patients showed that after a quarterly treatment in the Day hospital, patients assessed their self-esteem, overall satisfaction with the quality of life, as well as different domains of quality of life (satisfaction with physical and mental health, and satisfaction with the environment) as significantly improved [15]. Effectiveness of psychological interventions on improving of satisfaction with quality of life was found in patients with somatic diseases in the co-morbidity with mental disorders, schizophrenia, and other general mental disorders [18,19,20].

In this study, it was found that patients after 6-12 weeks of treatment estimated that there was a decrease in the level of total distress and improvement in interpersonal relationships. On the domain that shows functioning in social roles, there were no significant changes. One of possible reasons for the occurrence of these changes may be found in the fact that the application of group

therapy in structured and safe setting encourages acceptance, establishment of relations with others, communication and understanding with constant support, and provides opportunities for correction and rehabilitation. The absence of changes in the domain of a social role can simply be explained by the fact that patients were undergoing treatment within same family, educational, professional status as they were admitted to treatment, and changes in this domain were not expected. This study found that there was a decrease in the value of the risk behaviour indicator, especially suicide and abuse of psychoactive substances. However, with aggressiveness there was a slight increase in mean values. Although this is a slight increase, it can partly be explained by the fact that the 6-12-week period is too short for significant correction, of the behaviour acquired during life, to occur and to be fixed. For such a short period we could say that the patient is still in the stage of acquiring insight and entering the processing. A survey conducted by Mayes et al. (2001), working with a group of children and adolescents, precisely says that the length of treatment is related to a positive response to treatment [21].

It has also been found reduction in suicidality and substance abuse in a higher number of patients with other mental disorders than in patients with depression. In total sample there were 46 patients with disorders related to stress and trauma (PTSD, adjustment disorder, permanent personality disorder). Suicidality and substance abuse are common signs of these disorders, because of difficulties in coping with trauma symptoms and achieving of normalization of experiences, which may be reduced applying group therapy in Day hospital treatment [22,23].

Madan and Schwartz (2016) showed with the results of a study conducted in Canada on a group of geriatric patients, on the outcomes of group therapy in the Day hospital setting, that learning process from other members was a crucial for the treatment.

Group therapy was a place to share and participate in the growth of others, as well as the support of other members of the group who provided useful feedback [24]. A survey conducted by Hubble et al (1999) shows that the relationship factors are responsible for 30% of the changes that patients achieve [25]. In this study, we found that interpersonal relationships had a significant role in improving satisfaction with the quality of life of patients treated with group therapy in a Day hospital.

There are several limitations to this research. The main limitations relate to the sample, the measuring instruments used, and the research design. Data were collected from patients treated at Day hospital who were in heterogeneous treatment groups with respect to diagnoses of mental disorder, traumatic experiences, gender, age, and other sociodemographic variables. Thus, the generalization of the results obtained to a larger group of patients with respect to individual mental and behavioural disorders is limited. The strength of the research is also diminished by the sample size. Furthermore, multiple modalities of group therapy were applied during Day hospital treatment, which is a limiting factor in assessing the effectiveness of individual modalities of group therapy and applying theoretical explanations of its effects on symptom reduction and consequently satisfaction with quality of life. Another significant limitation concerns measurement instruments and research design. Selfassessment scales were used in this study as the primary source of data collection, and are therefore based on perceived abilities rather than objective indicators. This is particularly related to the symptoms of distress and risky behaviour, which require a structured clinical interview. The main limitation in the research design is that this study did not include a control group and that the assessment of the effect of group therapy on quality of life satisfaction was not followed over more than two time points. The quality of the study would be improved by monitoring the effect of group therapy 6 to 12 months after completion of treatment, which would help to better evaluate the long-term effect. Although the research has several limitations, the results obtained indicate that group therapy is effective and that further methodologically sophisticated research is necessary.

CONCLUSION

Group therapy treatment conducted by educated group therapists within program of Day hospital treatment can be effective for patients with various mental and behavioural disorders and contribute to improving the quality of life satisfaction. The results of this study suggest that improvement in interpersonal relations and reduction of distress achieved by application of group therapy had a significant share in increasing the value of overall satisfaction with the quality of life. Taking into account the above mentioned, it can be concluded that group therapy as a psychological intervention gave positive outcomes, as well as

guidelines for further improvement and application of group therapy as a method of choice, in the treatment of patients with mental and behavioural disorders.

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