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Purpose: This study takes a systematic approach to investigate the effect of social work intervention aimed at increasing general health among opioid addicts in addiction treatment centers. Patients and methods: This is an experimental plan (pretest to posttest with a control group); the study sample included 60 patients with drug dependencies undergoing treatment in addiction treatment centers. These patients were randomly assigned as case (30) and control (30) groups. The case group was subjected to intervention over ten sessions, whereas the control group received no intervention. Both groups then passed through a posttest, while a follow-up was conducted after 4 months. Data were obtained via a General Health Questionnaire.

Results: A covariance analysis test and independent and dependent t-test results indicated that a social work intervention adopting systematic approach was effective in increasing the general health of drug-addicted patients under treatment.

Conclusion: Thus, the nature of the presence of social workers in addiction treatment centers has been effective and can have a significant influence by reducing anxiety and insomnia and somatic symptoms, improving patients' self-understanding and self-recognition, and enhancing

Keywords: social work, intervention, systematic approach, general health, opioid addicts

Introduction

Currently, addiction has changed into a plight for the general health around the world.1 Similarly, in Iran, despite lack of existence of accurate statistics about the number of addicts,² over the last few years, the extent of abusing stimulants including opioids has been increasing.3 Today, many studies have confirmed the symbiosis of drug dependence disorders and mood disorders. ^{4,5} The results of studies conducted in Iran also show that mental health among drug abusers is significantly lower than that in healthy individuals. 6-10 Furthermore, investigations reveal that addicts have paranoid thinking, signs of depression, anxiety, obsessive thoughts, low self-confidence, and phobia.¹¹ In general, research has shown that general health is low among addicts.12

General health ensures provision and preservation of psychological, individual, and social health, such that the person is able to do his/her activities well and establish proper relationship with his/her family members and environment and has no improper behavior according to the culture and society. Therefore, disorders in the general health result in physical, psychological, and social problems; thus, addiction is considered as a disorder in general health.13

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Historically, social workers have been providing essential services for people with a background of drug abuse disorders. According to the definition of the National Association of Social Workers, the principal mission of social workers is to enhance people's health, along with empowerment of vulnerable individuals to enable them to meet their primary needs. Insistence on employing evidence-based social psychotherapies by social workers has been increasing in the last two decades for the treatment of people suffering from drug abuse disorders. Social workers use basic professional principles, skills, and values in the delivery of professional social work services, thus helping the addict to stop his/her drug abuse, prevent the incidence of addiction-related problems, solve his/her life problems, and improve his/her performance in psychosocial aspects. 17,18

Treatment in social work is successful if self-esteem is enhanced in clients, strengthening the skills that enable them to have control over their environment, increasing interpersonal skills while modifying work habits, and helping individuals to acquire a controllable and satisfactory environment. Thus, a systematic approach toward the problem requires the application of multidimensional treatment methods, which emphasizes the biological, psychological, social, and environmental aspects of long-term recovery. 17,18

Social workers attempt to eliminate drug abuse-related behavior in addition to detoxification as the first intervention action in systematic approach. They thus try to improve the social, professional, and psychological performance of the addict. In the second step, social workers apply rehabilitation in areas such as professional performance, mental health, and community participation in order to prevent recurrence of addiction. They then help the patient to identify the resources they possess, including personal, environmental, and family resources, thus increasing them. When considering humanities research into the status of social work and its possible role in issues such as recurring drug abuse, the research question to be currently raised is as follows: does social work intervention with a systematic approach influence on increasing the general health of opioid addicts?

Patients and methods

The ethical approval for this study was obtained from the Ethics Committee of University of Social Welfare and Rehabilitation Sciences and written informed consent was obtained from all patients. This was a quasiexperimental study. In this study, an experimental plan with a control group was used, involving a pretest and a posttest. The statistical population included men referred to drug addiction treatment centers in Guilan Province, Iran, from December 2013 to

June 2014. A total of 280 patients were undergoing treatment, of whom, based on the inclusion criteria (including having a negative test for opioid addiction at the same time, aged 20–60 years, addiction duration between 2 and 8 years, having the ability of reading and writing, getting married, and kind of abused drugs including opium and methamphetamine), 70 patients who had compliance with these requirements were selected by availability sampling; four people were not willing to participate in the study and six patients withdrew from the study during the intervention.

Thus, 60 patients were selected as the statistical sample and randomly assigned into case and control groups. Social work intervention with systematic approach was conducted on the case group (30 patients), whereas there was no such intervention on the control group (30 patients).

The data collection tools included a demographic questionnaire and the 28-item General Health Questionnaire (GHQ). This questionnaire was originally formulated using a factor analysis with a long form. It includes four subscales (somatic symptoms, anxiety and insomnia, social dysfunction, and severe depression), each of which includes seven subitems. The validity of this questionnaire was reported as 80%.²⁰ The reliability of the questionnaire was obtained as 0.88 using the Statistical Package of the Social Sciences software and Cronbach's α. The process of social work with patients is shown in Table 1.¹⁷

Treatment sessions were performed in individual treatment and group therapy. Individual treatments were counseling, home visits, and intervention in family and at work in order to resolve problems. Group sessions for group therapy were carried out in addiction treatment centers.

Data analysis

Descriptive statistics and inferential statistics were performed. In the descriptive section, the frequency tables and the percentage of demographic variables were presented in both groups, and in the inferential section, independent and dependent *t*-tests and covariance analysis were used. The significance level for all tests was 0.05.

Results

The demographic characteristics of both groups are presented in Table 2.

Kolmogorov-Smirnov test results

As Kolmogorov–Smirnov test shows, all the quantitative variables had a normal distribution, and P>0.05 indicates that the two groups were somehow equivalent in terms of the distribution of variables (Table 3).

Table I Process of social work intervention pattern based on a systematic approach

Session number	Intervention (activity)	Goal	Intervention type
Session I	Establishing professional communication	Establishment of effective communication between	Individual
	and motivational interview	social worker and patient	
		Motivating patient in order to change him/her and	
		preparations for interventional program	
Session 2	Recognizing the patient	Evaluation of person (genogram, eco-mapping,	Individual
		mental health, social support resources)	
Session 3		Evaluation of family	Family
Session 4		Evaluation of social environment and functions	Individual
Session 5	Recognizing the problem and etiology	Understanding the problem (etiology, dynamics, and	Individual
		treatment)	
Session 6	Solving the problem and its dynamics	Problem solving	Individual
Session 7	Therapeutic strategies for familial	Modification of family relations and interpersonal	Family
	treatment of an addict	relations, strengthening supportive sources	
Session 8	Strategies for group therapy	Training for participation in groups and modification	Group
		and fixing the functions	
Session 9		Life skills training (self-management, self-decision,	Group
		self-efficacy, and self-control)	
Session 10		Problem solving skill training	Group

Table 2 Demographic information in the control and experimental groups

Variable	Variable levels	Experimenta	al group	Control group		Total	
		Frequency	Percentage	Frequency	Percentage	Frequency	Percentage
Educational level	Under high school	10	33.3	8	26.6	18	30
	High school graduate	18	60	21	70	39	65
	Bachelor and higher	2	6.6	1	3.3	3	5
Age range (years)	20–30	14	46.6	11	36.6	25	41.6
	30-40	7	23.3	13	43.3	20	33.3
	40-50	6	20	5	16.6	11	18.3
	50-60	3	10	1	3.3	4	6.6
Duration of addiction	2–4	6	20	5	16.6	11	18.3
(years)	4–6	18	60	17	56.6	35	58.3
	6–8	6	20	8	26.6	14	23.3
Type of addiction	Opium	8	26.6	10	33.3	18	30
	Heroin	1	3.3	2	6.6	3	5
	Both	18	60	21	70	39	65
Economic status	1,000,000-2,000,000 rials	5	16.6	3	10	8	13.3
	2,000,000-3,000,000 rials	12	40	15	50	27	45
	>3,000,000 rials	13	43.3	12	40	25	41.6
Occupational status	Workman	13	43.3	10	33.3	23	38.3
•	Office worker	2	6.6	1	3.3	3	5
	Self-employed	7	23.3	12	40	19	31.6
	Jobless	8	26.6	7	23.3	15	25

Findings related to hypothesis testing

A comparison of the mean pretest scores in aspects of general health test in both intervention and control groups were specified based on the independent *t*-test results. There was no statistically significant difference between the total score of general health in both groups with regard to four aspects, including somatic symptoms, anxiety and insomnia, social

dysfunction, and depression. Thus, the scores of all the indexes and the total score in the case and control groups are assumed to be the same before intervention (Table 4).

Considering the results obtained from the dependent *t*-test (Table 5), social work intervention is proved to be effective in the improvement of all aspects of general health and posttest scores are significantly higher than pretest scores.

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Table 3 Normality distributions for variables (before and after intervention)

Group	Variable	Before intervention			After intervention		
		Z	<i>P</i> -value	Result	Z	P-value	Result
Intervention	Total score of relapse prevention	1.26	0.08	Normal	0.917	0.37	Normal
	Total score of general health	0.643	0.8	Normal	0.647	0.797	Normal
Control	Total score of relapse prevention	0.334	1	Normal	0.396	0.998	Normal
	Total score of general health	0.67	0.761	Normal	0.551	0.92	Normal

Table 4 Independent *t*-test results of two independent samples for comparing pretest scores in the case and control groups

Index	Group	Mean	Homogeneity of variances test		Equality of means test	
			F	P-value	T	<i>P</i> -value
Somatic symptoms	Intervention Control	6.33 5.98	6.7	0.000	0.825	0.36
Anxiety and insomnia	Intervention Control	7.15 7.01	1.59	0.211	1.32	0.42
Social dysfunction	Intervention Control	7.46 6.8	0.369	0.546	1.88	0.12
Depression	Intervention Control	3.1 3.73	0.451	0.505	1.07	0.287
Total score of general health	Intervention Control	25.6 24.9	3.6	0.302	1.02	0.325

Table 5 Dependent *t*-test results of two dependent samples for investigating the intervention effect in the intervention group for the general health variable and its dimensions in posttest

Index	Before intervention	After intervention	Equality of means test		
			T-value	P-value	
Somatic symptoms	4.81	3.4	4.6	0.000	
Anxiety and insomnia	6.25	4.6	4.63	0.000	
Social dysfunction	6.63	5.21	7.49	0.000	
Depression	4.05	3.41	2.96	0.004	
Total score of general health	21.7	16.6	5.96	0.000	

Covariance analysis results

In order to make a comparison of posttest scores in the intervention and control groups, covariance analysis was used with an adjustment of the posttest scores through pretest scores. Hence, a systematic approach to the influence of social work intervention with regard to increasing general health on opioid addicts was investigated.

Considering the data in Tables 6 and 7, it can be concluded that social work intervention with a systematic approach statistically influenced an increase in general health of opioid addicts (P<0.05, η^2 =0.167).

Table 6 Covariance analysis of effect of social work intervention with a systematic approach to improve general health in opioid addicts

Variable	Sum of	df	Mean	F	Significant	η²
	squares		square			
General health	2661.34	ı	2661.34	183.35	0.000	0.763
pretest score						
Group (control-	166.11	1	166.11	11.44	0.001	0.167
intervention)						

Note: Dependent variable: posttest score of general health.

Abbreviation: df, degrees of freedom.

Table 7 Preadjusted and adjusted mean in two groups

Group	Number of subjects	•	Adjusted mean	95% Confidence interval		
				Lower limit	Upper limit	
Intervention	30	17.2	14.82	13.43	16.3	
Control	30	16.06	18.39	16.96	19.83	

In addition, covariance analysis was performed to evaluate the influence of social work intervention with a systematic approach to general health aspects. The results suggested that social work influences somatic symptoms, social dysfunction, and depression in opioid addicts (P<0.05). However, social work intervention with systematic approach did not influence insomnia and anxiety status in opioid addicts (P<0.05).

Discussion

Addiction is a factor that endangers the general health of human beings and leads to disorders in their biological, psychological, and social behaviors. There are various factors involved in the emergence of addiction, including individual (age, personality traits, genetics, mental disorders, risky situations, positive attitudes to the drug, and the influence of drugs on the person), education, media, leisure, social, economic, political, geographical, and family factors.^{17,18}

Attention to nonpharmacological treatment is essential in the treatment of addiction, and mental health status is one of the factors that is especially important in the etiology and addiction treatment process; it is often forgotten during the treatment process.²¹

This study focused on the use of systematic intervention of social work, which is a nonpharmacological method, and also aimed to examine its impact on general health of opioid addicts. The results of the present study indicated that the power of the intervention effect on general health was roughly 16.7 (η^2), which means that social work intervention was effective in increasing general health.

The findings of the study are consistent with Amiri et al's behavioral activation group therapy.²² Contrary to the results of Erfani et al,²³ who had shown that the intervention of self-acceptance group therapy by Dryden method was not effective in improving physical symptoms and social functions of addicts, it seems that the social work can improve addicts' individual and social functions.

Based on research findings about reasons behind beginning addiction and its relapse following treatment, different factors such as improper mental health have been mentioned. General health plays an important role in the etiology and treatment process of addicted individuals. The presence of accompanying mental disorders causes resistance to treatment and relapse of addiction.²⁴⁻²⁶ Accordingly, one of the issues that should be considered in the interpretation of the research findings is improvement of the mental health for these individuals. This is because, according to Khantzian's self-medication theory, ^{28–30} drug abuse by addict individuals is regarded as a kind of self-treatment. People become addicted to drugs to solve problems such as depression and it is, therefore, likely that social work intervention with a systematic approach can influence the reduction of relapse in addicts, which is suggested to be investigated in future research.

The results of the study addressed the efficacy of social work intervention on general health aspects based on a GHQ. They showed that the power of the effect of the social work intervention on physical condition, a subcategory of general health, was 12.3 (η^2), which demonstrates the efficacy of social work intervention on improving general health in terms of physical condition. This finding agrees with the results of Kamarzarin et al,31 who illustrated the effectiveness of cognitive-behavioral therapy on increasing the self-efficiency and improving the mental and physical health of people addicted to opioid and are also compatible with Behravan and Mir-Anvaari's³² findings. They found that structural factors, including social structure, social class, social satisfaction, feeling discriminated against in life, and achieving the life goals with success, can contribute to increase or decrease in drug relapse. The results of the study showed that the power of the effect of the social work intervention on increasing general health in terms of social dysfunction was 20.8 (η^2) . This finding indicates that social work intervention is

effective in reducing social dysfunctioning. It is consistent with Kaldi³³ and Ma'arefvand,^{34,35} who studied the association between structural-functional variables and addiction relapses. It turned out that increasing social satisfaction of addicts after treatment reduced the frequency of the addiction relapse. They, therefore, found that all structural-functional variables are strongly associated with the frequency of addiction relapses. The research findings of Yazdani³⁶ likewise indicated that functional social support was higher in patients without addiction relapse after rehabilitation than in patients with addiction relapse after abstinence. The results of the research illustrated that the power of the effect of the social work intervention on improving general health in terms of depression status was 15.2 (η^2). This is supported by the findings of Middel³⁷ and Baker et al,³⁸ who demonstrated the efficiency of cognitive-behavioral therapy in reducing depression in alcohol addicts.

Conclusion

Studying the effect of systematic intervention of social work on general health, the social work model consists of various dimensions, based on which the opioid addicts are considered as a set of biological, psychological, social, and family aspects. In the beginning, social workers started their work with motivational interviewing; then, the cognitive and diagnostic aspects of the intervention began. At this stage, the characteristics of the addict and his/her problems were evaluated. In the evaluation of the addicted people's features, the following factors were taken into consideration: assessment of mental health, evaluation of social and familial status, drawing genogram and eco-mapping, evaluation of addict's attitudes toward addiction, assessment of needs and functions, social capital and social support resources. In the evaluation of problem, the etiology, dynamics, and clinical parameters of addiction problem were considered. After examining the addict and his/her problem, strategies for solving problems were designed and used. These strategies were including, in particular, changing the addict's attitude toward addiction, reforming family relations and interpersonal communications, solving family problems, and improving the support resources. The impaired functions of the addict were corrected, or new functions were defined for him/her. In the systematic intervention based on social work, life skills training with an emphasis on improving interpersonal relationships, problem solving, self-decision making, improving self-confidence, and increasing self-efficacy and self-management was performed in the form of developmental group work.

The results indicated that systematic intervention of social work based on group and case work was effective on general health of the addicts, improved the biological aspects of general health (based on a GHQ) and social functioning, and reduced their depression. Independent and dependent *t*-test showed the efficacy of this intervention in reducing anxiety and improving sleeping. In this study, the nature of the presence of social workers at addiction clinics can contribute to general health and can prevent relapse, reduce anxiety and insomnia, increase self-recognition and cognition of strategies for coping with stress, and improve the proper social behavior.

Limitations

The researchers faced some limitations in this intervention including the few numbers of studies focusing on the social work intervention and nonwillingness of participants to enter the study due to addiction problem; hence, we tried to motivate them to answer the questionnaire and participate in the treatment sessions.

Acknowledgments

The authors sincerely thank the vice-chancellor for Research and Technology, University of Social Welfare and Rehabilitation Sciences, for financial support of this research project. The authors are grateful to directors, managers of the drug addiction treatment centers in the Guilan Province who helped them during implementing the tests, and all of the patients who participated in the project.

Author contributions

All authors contributed toward data analysis, drafting and critically revising the paper and agree to be accountable for all aspects of the work.

Disclosure

The authors report no conflicts of interest in this work.

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