DOI: 10.22051/PSY.2020.27349.1984

https://psychstudies.alzahra.ac.ir/article 5251.html

# The Effect of Emotion Regulation-Based Group Therapy (ERBGT) on Alexithymia and Experiential Avoidance (EA) in Substance Use Disorder (SUD) Patients, with Borderline Personality Disorder (BPD)

# 1. Shirin Dehban\*, 2. Changiz Rahimi

- 1. Corresponding author M.Sc. of clinical psychology, Department of Psychology, Shiraz University, Shiraz, Iran. shdehban@gmail.com
- 2. Professor, Department of Clinical Psychology, Faculty of Educational Sciences and Psychology, Shiraz University, Shiraz, Iran. crahimi2016@hotmail.com.

#### Abstract

The purpose of this study was to evaluate the effectiveness of group therapy based on emotion regulation on mood swings and Experiential avoidance in substance user patient with comorbidity of borderline personality disorder. The statistical population of this study was consisted of patients with AUD and BPD in a psychiatric hospital of Shiraz city; 30 persons (male) were selected using purposive sampling method and randomly assigned in the study: One experimental and one control group (15 males each). The tools used in this study were Toronto-20 mood disorder questionnaire and Second Edition Acceptance and Practice Questionnaire to assess EA. The results showed that the scores of mood aversion and EA significantly decreased after the treatment. Therefore, it is suggested that in addition to pharmacological treatments, psychological treatment methods may also be used to increase the effectiveness of treatment on drug users.

*Keywords*: Alexithymia, borderline personality disorder, emotion regulation, experiential avoidance, substance abuse disorder.

#### Introduction

Substance use disorder (SUD) has become a major problem for youth and researches indicates a significant relationship between emotional problems and using drugs (Zimmermann, et al, 2017). In this study we investigated the effect of group-based therapy on alexithymia and experiential avoidance in SUDs patients.

Focused emotional therapy is one of the most effective intervention for substance use (Borjali, et al, 2015). Also, SUD is considered to be a common disorder among personality disorders. SUD have a high comorbidity with borderline personality disorder (BPD) at approximately 13.7% (Barral, et al, 2017). Emotion dysregulation is the main character for BPD and studies illustrates a high comorbidity with SUD which makes it a critical issue(Sloan, et al, 2017).

Alexithymia and experiential avoidance are components related to the BPD. Alexithymia is a

Psychological Studies Submit Date: 2019-07-21

DOI: 10.22051/PSY.2020.27349.1984

https://psychstudies.alzahra.ac.ir/article\_5251.html

disability in expressing and diagnosing emotions (Taylor, et al, 2016) and researches indicate a significant correlation between alexithymia and emotion irregulating among BPD (Meaney, et al, 2016). In addition, experiential avoidance is a mental situation that individual is unable to cope with negative feelings(Brereton & McGlinchey, 2020). Researches indicate effective results with BPD patients and experiential avoidance (Cavicchioli, et al, 2020). The main purpose for this study was to study the effect of Gross intervention on SUD patients comorbid with BPD. Based on this, first hypothesis for this research was, emotional regulation-group based therapy was effective on alexithymia in SUD patients comorbid with BPDs. Second hypothesis was that emotional regulation-group based therapy was effective on experiential avoidance in SUD patients comorbid with BPDs.

#### Method

The research design was quasi-experimental with two experimental and control groups including pre-test and post-test. The statistical population of this study was consisted of patients with substance abuse disorder and borderline personality in a psychiatric hospital of Shiraz city; 30 males who were hospitalized, were recruit for this study. The entry criteria for this study were borderline personality disorder diagnosis with substance abuse and methadone maintenance treatment. The tools used in this study were Toronto-20 questionnaire made by (Bagby, et al, 1994). Reliability for this questionnaire was 0.81 and validity were -0.80, 0.78, -0.44 with EQ, well-being and helplessness respectively. Also, the Second Edition of Acceptance and Practice Questionnaire was used to assess Experiential avoidance (Bond, et al, 2011). The test retest reliability method for scores this tool after 3rd and 12<sup>th</sup> months were 0.81 and 0.79 respectively, Exploratory validity was conducted for this tool and the results were significant.

Finally, emotional regulation-based group therapist (Gross, 2002), which was assessed by James Gross and was designed as 2 hours sessions during 8 weeks. Data were analyzed using covariance analysis and descriptive statistics.

#### **Results**

Descriptive statistics indicate a mean age of 31.06 and 32.06 for experimental and control group respectively.

Psychological Studies Submit Date: 2019-07-21

DOI: 10.22051/PSY.2020.27349.1984

https://psychstudies.alzahra.ac.ir/article\_5251.html

Table 1. Mean scores of alexithymia and experiential avoidance of both groups in different stages

Variable		Experime	ntal Group		Control Group			
	pre		post		pre		Post	
	M	SD	M	SD	M	SD	M	SD
Alexithymi	77.47	5.30	74.4	6.66	69.4	1.56	52.93	1.10
Experientia avoidance	24.13	3.37	23.87	3.92	27.13	1.56	35.27	1.10

Levin's Test was conducted and covariance pre assumption and there was not a significant difference between the components. The condition for normality of distribution was confirmed (P>0.05). findings indicate that Alexithymia and experiential avoidance scores were significantly decreased, which can be related to the effect of the group-based intervention.

Table 2. the effectiveness experimental avoidance therapy

Variables	DF	Mean Square	F	P value Partial ETA	
					square
Alexithymia	1	1334.60	81.12	0.001	0.75
Experiential avoidance	1	721.50	20.39	0.001	0.43

## Conclusion

Results indicated the effect of emotion regulation group-base therapy on alexithymia and experiential avoidance, which can be used in the hospital context on SUD patients comorbid with BPD. Results are consistent with previous findings (Lee, et al, 2019), indicating emotion regulation interventions reduce negative feelings and improve mood and play an important role in personality and mood disorders. Also, this kind of therapy reduce emotional avoidance in BPDs reducing the level of craving and substance use (Cavicchioli, et al, 2020).

Limitations are mentioned as participants were at a mental hospital, in addition sampling was not accidental which can bias the generalizing process. We suggest that other researchers conduct more group-base treatments on other contexts related with this disorder with larger Psychological Studies Submit Date: 2019-07-21 DOI: 10.22051/PSY.2020.27349.1984

https://psychstudies.alzahra.ac.ir/article\_5251.html

samples. Besides, it is recommended to compare group-base intervention with other types of psychological interventions.

#### Acknowledgement

This study was extracted from Shirin Dehban M.Sc. dissertation and we are appreciated for all the cooperation we received from the hospitals staff in Medical University of Shiraz.

#### **Conflict of interests**

There was no confilict of interest for this study.

### References

- Bagby, R. M., Taylor, G. J., & Parker, J. D. (1994). The twenty-item Toronto Alexithymia Scale—II. Convergent, discriminant, and concurrent validity. *Journal of psychosomatic research*, 38(1), 33-40.
- Barral, C., Daigre, C., Bachiller, D., Calvo, N., Ros-Cucurull, E., Gancedo, B., . . . Roncero, C. (2017). Severity factors associated with borderline personality disorder among misusers in an outpatient sample in Spain. *Journal of addictive diseases*, 36(2), 93-96.
- Borjali, A., Aazami, Y., Chopan, H., & Arab Quhistani, D. (2015). Effectiveness of emotion regulation strategies for aggression control based on gross model in substance abusers. *Iranian Journal of Rehabilitation Research*, 2(1), 53-65.
- Brereton, A., & McGlinchey, E. (2020). Self-harm, emotion regulation, and experiential avoidance: A systematic review. *Archives of suicide research*, 24(sup1), 1-24.
- Cavicchioli, M., Movalli, M., Ramella, P., Vassena, G., Prudenziati, F., & Maffei, C. (2020). Feasibility of dialectical behavior therapy skills training as an outpatient program in treating alcohol use disorder: The role of difficulties with emotion regulation and experiential avoidance. *Addiction Research & Theory*, 28(2), 103-115.
- Gross, J. J. (2002). Emotion regulation: Affective, cognitive, and social consequences. *Psychophysiology*, 39(3), 281-291.
- Lee, S.-Y., Kim, M.-D., Seo, J. S., Lee, K., Jon, D.-I., & Bahk, W.-M. (2019). T103. The Effets Of Group Arts Therapisy Bsed On Emotion Managmnet Training On The Emotional Expression, Alexithymia, Depression And Quality Of Life In Patients With Schizophenia. *Schizophrenia Bulletin*, 45(Supplement\_2), S243-S243.
- Meaney, R., Hasking, P., & Reupert, A. (2016). Borderline personality disorder symptoms in college students: the complex interplay between alexithymia, emotional dysregulation and rumination. *PLoS One*, 11(6), e0157294.
- Sloan, E., Hall, K., Moulding, R., Bryce, S., Mildred, H., & Staiger, P. K. (2017). Emotion regulation as a transdiagnostic treatment construct across anxiety, depression, substance,

Psychological Studies

Vol. 16, No. 3, Autumn 2020, Serial No.60
Submit Date: 2019-07-21

Accept Date: 2020-12-12

DOI: 10.22051/PSY.2020.27349.1984

https://psychstudies.alzahra.ac.ir/article\_5251.html

eating and borderline personality disorders: A systematic review. *Clinical Psychology Review*, 57, 141-163. <a href="https://doi.org/10.1016/j.cpr.2017.09.002">https://doi.org/10.1016/j.cpr.2017.09.002</a>

- Taylor, G. J., Bagby, R. M., & Parker, J. D. (2016). What's in the name 'alexithymia'? A commentary on "Affective agnosia: Expansion of the alexithymia construct and a new opportunity to integrate and extend Freud's legacy.". *Neuroscience & Biobehavioral Reviews*, 68, 1006-1020. https://doi.org/10.1016/j.neubiorev.2016.05.025
- Zimmermann, K., Walz, C., Derckx, R. T., Kendrick, K. M., Weber, B., Dore, B., . . . Becker, B. (2017). Emotion regulation deficits in regular marijuana users. *Human brain mapping*, 38(8), 4270-4279.