



The Effectiveness of Body Psychotherapy Techniques (BPT) on Stress and Salivary Cortisol Level in High School Students in Gorgan

Fatemeh Naghi Nasb Ardhaee^{1*}, Abolfazl Karimi¹, Moahammad Javan², Mohsen Seifi¹

¹ Faculty of Psychology and Educational Sciences, Allameh Tabatabai University, Tehran, Iran.

² Department of Physiology, Tarbiat Modares University, Tehran, Iran.

Published: 1 Oct 2014

Abstract

Body psychotherapy technique (BPT) is a program that teaches people how to deal more effectively with stressors. In the present study, we evaluated the effectiveness of body psychotherapy treatment on stress and salivary cortisol level in high school girl students. This randomized clinical trials study with pre- post tests was performed on 20 female students as case group and 20 participants serving as controls (15-18 years) in Gorgan, Iran during 2012. To determine stress, Cohen stress scale were administered at two points of measurement (before educational sessions and at the end of therapy), also their salivary samples collected directly after awakening as well as 15, 30 and 45 minute later (the day before and after treatment). BPT group-education was given to the experimental group in nine sessions during two months. 15 participants in each groups completed the study. Data analysis was performed using SPSS software and unpaired t-test. The mean of stress scale scores in the experimental group showed a significant ($P<0.01$) decrease (from 37.46 ± 3.87 to 32.66 ± 5.82) in comparison to that in the control group (from 35.66 ± 6.06 to 36.13 ± 5.80). The salivary cortisol level were significantly ($P<0.05$) decreased (from 4.96 ± 2.61 to 2.68 ± 1.31 ng/ml) in cases compared to controls (from 5.37 ± 3.65 to 5.38 ± 4.25 ng/ml) which remained unchanged. Findings indicate that BPT decreases the cortisol awakening response and were associated with lower stress scores.

Keywords: Salivary Cortisol, Stress, Body Psychotherapy (BPT).

***Corresponding Author:** Fatemeh Naghi Nasb Ardhaei

E-mail: fnaghinasab@gmail.com