



The effectiveness of acceptance and commitment-based therapy on sleep and problem solving in 14-16 year old girls

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Abstract

Aim: The aim of this study was to evaluate the effectiveness of acceptance and commitment therapy on sleep problems and problem solving.

Methods: This quasi-experimental study was a pre-test-post-test design with a control and follow-up group for 3 months. The statistical population of this study included all 14 to 16 year old female students studying in high school in Kermanshah in 1399-1400. By available sampling method, 60 female students were selected and randomly assigned to two equal groups of 20 people. Data were collected using a problem-solving questionnaire (Hepner and Patterson, 1988) and a sleep assessment questionnaire (Boyce et al., 1989). For data analysis, SPSS software version 25 was used with descriptive statistics, statistical assumptions and analysis of variance with repeated measures and Bonferroni test. **Results:** The results showed that acceptance and commitment treatment was significantly effective in improving problem solving skills and its dimensions in the experimental group. Also, the results showed that acceptance and commitment therapy had a positive effect on problem solving skills of the experimental group.

Conclusion: Based on the findings of the present study, it can be concluded that acceptance and commitment therapy using techniques such as mental techniques. Self-observation as a context, cognitive fault techniques, values, and committed action can be used as an effective treatment to reduce sleep problems and improve problem-solving techniques in adolescent girls.

Keywords: Acceptance and commitment therapy, sleep problems, problem solving, adolescents

References

- Cassale AD, Sorice S, Padovano A, Simmaco M, Ferracuti S, Lamis DA, et al. (2019). Psychopharmacological Treatment of Obsessive-Compulsive Disorder (OCD). *Curr Neuropsychopharmacol*. 17(8): 710–736.
- Ezadee, M., & Rasouli, A. (2019). Effectiveness of acceptance and commitment psychotherapy in improving depression and quality of sleep in women with postpartum depression. *IJNR*, 14 (1) :21-28.
- Gupta AK, Mongia M, Garg AK. (2017). A descriptive study of behavioral problems in schoolgoing children. *Ind Psychiatry J*. 26(1):91-94.
- Hahn M, Joechner AK, Roell J, Schabus M, Heib DP, Gruber G. (2019). Developmental changes of sleep spindles and their impact on sleep-dependent memory consolidation and general cognitive abilities: A longitudinal approach. *Dev Sci*. 22(1): e12706.
- Jalili, A., Hejazi, M., Entesar Foumani, G., Morovati, Z. (2018). The Relationship between Meta-Cognition and Academic Performance with Mediation Role of Problem Solving. *J Child Ment Health*, 5 (1) :80-91
- Kaiser T, Li J, Pollmann-Schult M, Song AY. (2017). Poverty and Child Behavioral Problems: The Mediating Role of Parenting and Parental Well-Being. *Int J Environ Res Public Health*. 14(9):120-34.
- Khazaie, H., & Zakiei, A. (2019). Efficacy of Acceptance and Commitment Therapy on Emotional Dysregulation and Sleep Quality in Patients with Chronic Insomnia . *J Mazandaran Univ Med Sci*, 29 (178) :52-63.
- Kioskli, K., Scott, W., Winkley, K., Godfrey, E., & McCracken, L. M. (2020). Online acceptance and commitment therapy for people with painful diabetic neuropathy in the United Kingdom: A single-arm feasibility trial. *Pain Medicine*, 21(11), 2777-2788.
- Kolb, B., & Fantie, B. D. (2009). Development of the child's brain and behavior. *Handbook of clinical child neuropsychology*, 19-46.
- Lynn Mulvey K, Boswell C, Zheng J. (2017). Causes and Consequences of Social Exclusion and Peer Rejection Among Children and Adolescents. *Rep Emot Behav Disord Youth*. 17(3):71-75.
- Montgomery, L., Burlew, A. K., Haeny, A. M., & Jones, C. A. (2020). A systematic scoping review of research on Black participants in the National Drug Abuse Treatment Clinical Trials Network. *Psychology of addictive behaviors*, 34(1), 117.
- Ogundele MO. (2018). Behavioural and emotional disorders in childhood: A brief overview for paediatricians. *World J Clin Pediatr*. 7(1):9-26.
- Puolakanho A, Lappalainen R, Lappalainen P, Muotka JS, Hirvonen R, Eklund KM, et al. (2019). Reducing Stress and Enhancing Academic Buoyancy among Adolescents Using a Brief Web-based Program Based on Acceptance and Commitment Therapy: A Randomized Controlled Trial. *J Youth Adolesc*. 48(2): 287–305.
- Rasmawati, R., Keliat, B. A., & Susanti, H. (2020). Improvement in Patients' Ability to Care for Anxiety and Impaired Body Image: A Case Report of Acceptance and Commitment Therapy and Family Psychoeducation. *Jurnal Keperawatan Indonesia*, 23(2), 102-110.
- Rothenberg WA, Lansford JE, Alampay L, Al-Hassan S, Bacchini D, Bornstein MH, Et al. (2020). Examining effects of mother and father warmth and control on child externalizing and internalizing problems from age 8 to 13 in nine countries. *Dev Psychopathol*. 32(3): 1113–1137.

- Sadeh N, Spielberg JM, Logue MW, Hayes JP, Wolf E. (2019). Linking Genes, Circuits, and Behavior: Network Connectivity as a Novel Endophenotype of Externalizing. *Psychol Med.* 49(11): 1905–1913.
- Sadock, B. J., Sadock, V. A., & Ruiz, P. K. *Sadocks synopsis of psychiatry: behavioral sciences/clinical psychiatry* (2015) Wolter Kluwer.
- Sauvet, F., Arnal, P. J., Tardo-Dino, P. E., Drogou, C., Van Beers, P., Erblang, M.,... & Léger, D. (2020). Beneficial effects of exercise training on cognitive performances during total sleep deprivation in healthy subjects. *Sleep medicine*, 65, 26-35.
- Shameli, L., Davodi, M., & Mottaghi Dastanaee, S. (2019). The Effectiveness of Acceptance and Commitment Therapy on Logical Memory and Problem Solving Skill in People with Multiple Sclerosis. *Jcp*, 7 (2) :51-62
- Shokohi Yekta, M., & Zamani, N. (2012). The Effectiveness of Cognitive Interpersonal Problem-Solving on Reducing Challenging Behaviors of Slow-Learner Students: Single-Subject Study. *Psychological Methods and Models*, 2(8), 55-71.
- Smith MT, McCrae C, Cheung J, Martin JL, Harrod CG. (2018). Use of Actigraphy for the Evaluation of Sleep Disorders and Circadian Rhythm Sleep-Wake Disorders: An American Academy of Sleep Medicine Systematic Review, Meta-Analysis, and GRADE Assessment. *J Clin Sleep Med.* 14(7): 1209–1230.