# The Quarterly Journal of New thoughts on Education



Faculty of Education and Psychology Vol.19, No.4, Ser. 70, Winter 2024, p. 1-9

Journal homepage: https://jontoe.alzahra.ac.ir/





#### Research Paper

# Developing a successful intelligence model based on spiritual intelligence with the mediating role of cognitive emotion regulation

Sadegh Ordoni<sup>1</sup>, Ghasem Ahi<sup>2</sup>, Fatemeh Shahabizadeh<sup>3</sup>, Toktam Sadat Jafar Tabatabaee<sup>4</sup>

- PhD in Educational Psychology, Faculty of Psychology, Islamic Azad University, Birjand Branch, Birjand, Iran
- 2. Corresponding Author: Assistant Professor, Faculty of Psychology, Islamic Azad University, Birjand Branch, Birjand, Iran
- Associate Professor, Faculty of Psychology, Islamic Azad University, Birjand Branch, Birjand, Iran
- 4. Assistant Professor, Faculty of Psychology, Islamic Azad University, Birjand Branch, Birjand, Iran

Received: 2021-06-14 Accepted: 2021-12-27

#### **Abstract**

Aim: Successful intelligence is a major intelligence concept which can increase the creativity and problem solving skills of learners. This study aimed to investigate the mediating role of cognitive emotion regulation in the relationship between spiritual intelligence and successful intelligence. The statistical population of this descriptive correlational study consisted of ninth grade boysat the secondary schools in the city of Birjand during the academic year 2020-2021. The sample consisted of 310 participants selected withthe random cluster sampling method. A questionnaire was used as the research tool.Data analysis was performed in SPSS-23 and LISREL 8.8 software programs using path analysis. The results showed that spiritual intelligence has a positive and significant effect on the adaptive cognitive emotion regulation strategies and successful intelligence, and a negative and significant effect on the non-adaptive cognitive emotion regulation strategies. Also, the adaptive cognitive emotion regulation strategies have a positive and significant effect and the nonadaptive cognitive emotion regulation strategies had a negative and significant effect on successful intelligence. In addition, the results indicated that cognitive emotion regulation mediates the relationship between the spiritual intelligence and successful intelligence of students.

**Keywords**: Cognitive emotion regulation, Spiritual intelligence, Successful intelligence

#### Introduction

According to Sternberg, successful intelligence is a consolidated collection of skills required to succeed in life. This is of course defined by individuals in their own social and cultural fabric. People with successful intelligence are successful in life because they know their shortfalls and how to remedy them (Sternberg, 2015). Most experts believe that the adolescence period is the most defining development period for human beings (Kennedy et al., 2018). The process of finding an identity includes many changes such as sexual behavior and extensive changes in social behavior (McCormick & Scherer, 2018). These changes predispose adolescents to problems (Berry et al., 2018) and provide a nursery bed of conflicts between themand their parents (Harris et al., 2018), disrupting individual performance in various aspects of life. Therefore, identifying contributing antecedents and educational interventions to facilitate the process of adapting to changes to realize intelligence and creativity of teenagers is a must. The Ministry of Education must maximize the success of every student in school. The best way to achieve this is to create a vast range of skills by teachingindividual intelligence and successful intelligence (Sternberg et al., 2009).

Successful intelligence is a combination of analytical, creative, and practical skills (Arāb- Sheibani & Akhundi, 2016). It appears that the practical and creative skills of learners are not developed in schools, and their analytical skills are not taken to higher cognitive levels appropriately (Dolati et al., 2019). Given the importance of successful intelligence in life, it is essential to identify the contributing antecedents, including the antecedents involved in cognitive emotion regulation (Salavera et al., 2016).

Spiritual intelligence is one with which the individual cantaketheir life to a wider, richer, and more meaningful level (Amram, 2009). Spiritual intelligence provides a strong base for human beings to deal with life's problems and helps the individual reach success (Asadi-Noghani et al., 2005). Research conducted by Namazian et al. (2018), Ashuri et al.

(2013), Tamannaeefar (2019), Rita et al. (2019), and Mollamohammadi & Etemad-Ahari(2016) has confirmed the relationship between successful intelligence and spiritual intelligence. However, this relationship has not been confirmed by other studies, including the one conducted by Molazadeh et al. (2014). Considering the conflicting results of certain studies, it is possible that variables mediate between successful intelligence and spiritual intelligence. Research shows that one of these mechanisms could be the mediating role of cognitive emotion regulation (Namazian et al., 2018).

Research shows that teaching cognitive emotion regulation leads to successful performance in education and work (Mohebi & Badri, 2017). Cognitive emotion regulationis a person's way of cognitive processing when faced with stressful events (Sohrabi, 2008). Evidence shows that people with cognitive emotion skills are successful and efficient in life (Issazadegan et al., 2010). The research revealed a relationship between cognitive emotion regulation and spiritual intelligence Partabian, 2015). The results of the research by Mahmoodi et al. (2017) revealed a significant relationship between cognitive emotion regulation and the spiritual approach. Barzehgari et al. (2018) reported a direct relationship between the spiritual approach and adaptive and nonadaptive cognitive emotion regulation strategies. Shek & Zhu (2018) believe that emotion regulation can increase the ability to use spiritual resources to solve problems. Overall, there is much evidence showing that emotion regulation is related to success or failure and modifies the relationship between other psychological variables (Garnefski & Samani, 2011).

In Iran, research on successful intelligence and the effect of spiritual intelligence and cognitive emotion regulation on successful intelligence is still nascent. Aiming to predict the possible existence of a relationship between the said variables, the present study was conducted to investigate the effect of spiritual intelligence on successful intelligence by considering the mediating role of cognitive emotion regulation.

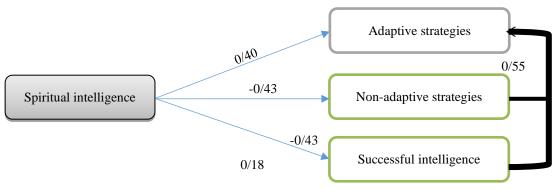
**Research hypothesis:** The conceptual model of the mediating role of cognitive emotion regulation on the relationship between spiritual intelligence and successful intelligence fits the data.

## Method

The statistical population of this fundamental descriptive correlational study consisted of the ninth grade boys from secondary schools in Birjand during the school year 2020-2021. The sample size was 310 participants selected with the random cluster sampling method. Data analysis was performed in SPSS-23 and LISREL 8.8 software programs using path analysis. A questionnaire was used for data collection. The validity of the questionnaires was confirmed through content validity index (CVI), content validity ratio (CVR) and confirmatory factor analysis. Its reliability was obtained by calculating Cronbach's alpha for spiritual intelligence (0.90), cognitive emotion regulation(0.91), and successful intelligence (0.89).

## **Results**

In order to test the "successful intelligence model based on spiritual intelligence with the mediating role of cognitive emotion regulation", the proposed conceptual model was investigated withthe structural equation modeling (SEM) technique. The path coefficients of the hypothesized model are presented in Figure 1.



Chi-square=29.44, df=1, p-value=0.000, RMSEA=0.304

**Figure 1.** Path coefficients of the hypothetical model for the mediating role of cognitive emotion regulation in the relationship between spiritual intelligence and successful intelligence.

Our data revealed that the direct effect of spiritual intelligence is positive and significant on the adaptive cognitive emotion regulation strategies ( $\beta$  = 0.40), and negative and significant on the non-adaptive cognitive emotion regulation strategies ( $\beta$  = -0.43). But the direct effect of spiritual intelligence on successful intelligence ( $\beta$  = 0.18) is positive and insignificant. Moreover,

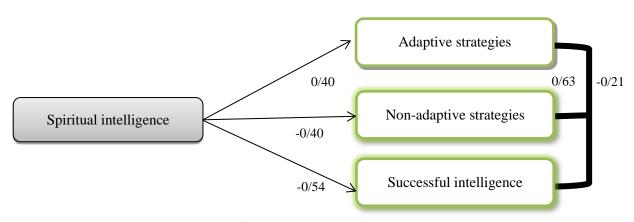
the effect of the adaptive cognitive emotion regulation strategies ( $\beta$  = 0.55)is positive and significant on successful intelligence and the effect of non-adaptive cognitive emotion regulation strategies ( $\beta$  = -0.43) is negative and significant. In addition, the indirect effects and total effects of spiritual intelligence on successful intelligence through adaptive and non-adaptive cognitive emotion regulation strategies are positive and significant at respectively

 $\beta = 0.41$  and  $\beta = 0.59$ .

## Modelgoodness of fit

The chi-square test revealed discrepancies between the proposed model and the observed model ( $\chi^2_{(1)}$ = 29.44, p < 0.01).Therefore, the null hypothesis about data fit was not confirmed.The goodness of fit index (GFI)was 0.95, adjusted GFI (AGFI)was 0.55, comparative fit index (CFI) was 0.93, normed fit index (NFI) was 0.93, incremental fit index (IFI) was 0.93, nonnormedfitness index (NNFI) was 0.58, relative fit index (RFI)was 0.57, and the root mean square error of approximation (RMSEA)was 0.304. Clearly, the indices show that the model does not fit the data.

Since the model goodness of fit was not confirmed and that some of the statistical indices of the paths did not reach statistical significance, the model was modified in the last stagebased on the modification indicators. The path coefficients of the modified model are presented in Figure 2. The modification reduced the value of  $\chi 2$  by 26.13 and, therefore, approached the model fit.



Chi-square=3.31, df=1, p-value=0.07, RMSEA=0.087

**Figure 2:** Path coefficients of corrected model for the mediating role of cognitive emotional regulation in the relationship between spiritual intelligence and successful intelligence

The output had better fit indices after modification than before modification. Based on the new fit indices, GFI was 0.99, AGFI was 0.95, CFI was 0.99, RFI was 0.95, NFI was 0.99, IFI was 0.99, NNFIwas 0.97, and RMSEAwas 0.087, indicating acceptable model fit. The findings of the research showed that spiritual intelligenceexplained 29% of variances in the adaptive cognitive emotion regulation strategies and 34% of variances in the non-adaptive cognitive emotion regulation strategies. In addition, 24% of the observed variance in successful intelligence can be explained by combining the variables of adaptive strategies and non-adaptive strategies.

#### **Discussion and conclusion**

The results of the present research showed that cognitive emotion regulation mediates the relationship between spiritual intelligence and successful intelligence. This result is in agreement with the results of Zare & Rastegar (2014), Anvar & et al. (2020), Rita et al. (2019), Schack & Zhu (2018), and Foley & Kelly (2018). The results can be explained as follows: People with a higher spiritual intelligence are more patient when faced with difficult situations and overcome them with a more logical approach. They feel calmer, and this calmness in turn increases their level of successful intelligence. The main limitation of the project was its statistical population (ninth grade boys)which can create limitations in generalizing the results. Given the results, it is recommended that instructors be persuaded to teach spiritual intelligence, cognitive emotion regulation, and successful intelligence.

### **Funding**

This project was carried out for a PhD dissertation without funding.

## Acknowledgments

We are grateful to all those who helped us carry out this research, in particular the teachers and ninth graders in the city of Birjand.

### Reference

- Amiri, M. & Partabian, A. (2015). An investigation into the relationship between emotional intelligence components and creativity of the students (case study: payam-e-Noor universities of south fars). *Scientific research quarterly of innovation and creativity in Humanities*. 5(4): 191-216. (Text in Persian)
- Amram, Y. (2009). "The Contribution of Emotional and Spiritual Intelligences to Effective Business Leadership". *Doctoral Dissertation*, *Institute of Transpersonal Psychology*, *California*, *Palo Alto*. (unpublished)
- Anwar, M.A. Gani, A.M.O. & Rahman, M.S. (2020). Effects of spiritual intelligence from Islamic perspective on emotional intelligence. *Journal of Islamic*

- *Accounting and Business Research* 11(1): 216-232. http://dx.doi.org/10.1108/JIABR-10-2016-0123
- Arab shaibani, k. & Akhondi, N. (2017). Investigation into the validity and admissibility of teaching method questionnaire based on successful intelligence among teachers. *Two quarterlies (TSI-Q) of strenburg in cognitive strategies of learning*, 5(9): 49-60. (Text in Persian)
- Asadi Noghani, A. A., Omidi, S. & Haji Aghakhani, S. (2005). *The relationship between mental health and happiness of students*. Tehran, Boshra publications. (Text in Persian)
- Askari, N., Hamidizadeh, A. & Abedi, R. (2016). Mediating role of creativity, innovation and mental health in the effect of spiritual intelligence on personal performance of employees, 2016; *Government management quarterly*, No.27, 533-552. (Text in Persian)
- Ashoori, J., Azadmard, S. Jalili Abkenar, S. S., & Moeinikia, M. (2013). An anticipatory model of educational achievement based on the metacognitive and cognitive strategies, the orientation of achievement goals and spiritual intelligence in biology. *Psychology journal of school*, 2(4): 118-136. (Text in Persian)
- Barry, C. T., McDougall, K. H., Anderson, A. C. & Bindon, A. L. (2018). Global and contingent self-esteem as moderators in the relations between adolescent narcissism, callous-unemotional traits, and aggression. *Personality and Individual Differences*, 123, 1-5. https://psycnet.apa.org/doi/10.1016/j.paid.2017.10.036
- Barzgari, E. Khaleghipoor, S. & Vahhabihamabadi, J. (2018). The mediating role of emotion regulation in relation to the spiritval attitude and risky behavior in adolescents having drug addict parents. *Quarterly of drug addiction research*. 12(50): 1-20. (Text in Persian)
- Doulati, H., Narimani, M., Sobhi Gharamaleki, N. & Sadeghi Hashjin, G. (1398). Investigation into the effectiveness of personal intelligence and successful intelligence on the intelligent student's self-confidence. *Psychology journal of school*, 8(1): 71-86. (Text in Persian)
- Foley, S. R. & Kelly, B. D. (2018). Forgiveness, spirituality and love: thematic analysis of last statements from Death Row, Texas (2002-17). *QJM*, 111(6), 399-403. <a href="https://doi.org/10.1093/qjmed/hcy062">https://doi.org/10.1093/qjmed/hcy062</a>
- Garnefski, N., & Samani, S. (2011). Psychometrics Properties of the Cognitive Emotion Regulation Questionnaire (Persian Version) Department of Education and Psychology Islamic Azad University, Marvdasht Branch Marvdasht, Fars IRAN. (Text in Persian)
- Harris, M. A., Wetzel, E., Robins, R. W., Donnellan, M. B., & Trzesniewski, K. H.(2018). The Development of Global and Domain Self-Esteem from Ages 10 to 16 for Mexican-Origin Youth. *International Journal of Behavioral Development*,42(1): 4-16. <a href="https://psycnet.apa.org/doi/10.1177/0165025416679744">https://psycnet.apa.org/doi/10.1177/0165025416679744</a>
- Eisazadegan, A. Jenabadi, H. & saadatmand, S.(2011). The relationship of the strategies of cognitive regulation of emotion, emotional creativity, and academic performance with mental health in students. *educational psychology studies*, 7 (12).71-80. (Text in Persian)

- Kennedy, B., Ruoqing, C., Valdimarsdottir, U., Montgomery, S., Fang, F., & Fall, K. (2018). Childhood Bereavement and Increased Sensitivity to Stress in LateAdolescence. Retrieved from http://urn.kb.se/resolve?urn=urn:nbn:se:oru:diva-64312.
- Mahamoodi, F, Sadeghi, F, & Jamalomidi, M. (2017). An investigation into the role of spiritual attitude in anticipating the strategies of emotional cognitive regulation in students. *Religion and health*, 5(1): 51-60. (Text in Persian)
- McCormick, C. B. and Scherer, D. G. (2018). *Child and adolescent development foreducators, second edition.* New York: Guilford.
- Mohebbi, M.& Badri ,R.(2016). The Emotions and Consequences of Emotion Regulation in Female Students. *J Educ PsycholStud.* 1(1):8-17. (Text in Persian)
- Moulazadeh, A., Gholami, M. S., Hamayel Mehrbani, H. & et al. (2014). Relationship of Spiritual intelligence with academic achievement motive in the students of medical science university FSA in 2013. *Community health*, 7(2,3). (Text in Persian)
- Mollamohammadi, M. & Etemad Ahari, A. (2016). The relationship between spiritual intelligence and creativity of students in 8 districts in Tehran. *Journal of Renewable Natural Resources Bhutan*, 3(2), 454-461. (Text in Persian)
- Nemazian, M., Tohidi, A. & Bagheri, M.(2018). The effect of spiritual intelligence training on a tendency to critical thinking and emotional creativity. *Journal of learning and training studies*, 10(1): 189-205. (Text in Persian)
- Rita, K. S., Siti, T. Z. & Dede, M.(2019). Study On Emotional Intelligence And Spiritual Intelligence As A Prediction Of Students Comulative' Grade Points Average. *Journal of Critical Reviews* 6(5):29-35. <a href="http://dx.doi.org/10.22159/jcr.06.05.05">http://dx.doi.org/10.22159/jcr.06.05.05</a>
- Salavera, C., Pablo U., Irene, Cha. Nerea, G., Paula, A. & Mercedes, D. (2017). Emotional intelligence and creativity in first and second year primary school children. *Procedia Social and Behavioral Sciences*, 237, 1179 1183.
- Shek, D. T. L., & Zhu, X. (2018). Self-Reported Risk and Delinquent Behavior and Problem Behavioral Intention in Hong Kong Adolescents: The Role of Moral Competence and Spirituality. Frontiers in psychology, 9, 430<a href="https://doi.org/10.3389/fpsyg.2018.00430">https://doi.org/10.3389/fpsyg.2018.00430</a>
- Sohrabi, F.(2008). Bases of spiritual intelligence. Quorterly of mental health, the first 1: 14-18. (Text in Persian)
- Sternberg, R. J. (2015). Successful intelligence: A model for testing intelligence beyond IQ tests. *European Journal of Education and Psychology*, 8(2), 76-84. <a href="https://doi.org/10.1016/j.ejeps.2015.09.004">https://doi.org/10.1016/j.ejeps.2015.09.004</a>
- Sternberg, R. J., Jarvin, L., & Grigorenko, E. L. (2009). *Teaching for Wisdom, Intelligence, Creativity and Success.* Crowin press, a sage publications company.
- Tamannaeifar, M. (2019). Psychological Effects of Spiritual Intelligence and Creativity on Happiness.International *Journal of Medical Investigation*, 8(2), 91-107.
- Zare, H. & Rastegar, A .(2014). Causal model for anticipating academic achievements of virtual training students. The role of intelligence belifs,

The Quarterly Journal of New thoughts on Education (2024) Vol.19, No.4, Ser. 70, pp. 1-9

achievement goals, and educational emotions. *Two quarterlies in social cognitive*,3(2):18-32. <a href="https://dorl.net/dor/20.1001.1.23456523.1392.1.3.1.6">https://dorl.net/dor/20.1001.1.23456523.1392.1.3.1.6</a> (Text in Persian)



This article is an open-access article distributed under the terms and conditions of the Creative Commons AttributionNoncommercial 4.0 International (CC BY-NC-ND 4.0) (https://creativecommons.org/licenses/by-nc-nd/4.0/).