Positive Education: A Way to Foster and Promote Psychological Flourishing in Schools

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Abstract

Introduction: The increasing importance of the movement of positive psychology and consequently positive education has led scientific study to foster and promote human psychological flourishing. This research aimed to provide an educational-interventional protocol to foster and promote flourishing and evaluate its effectiveness.

Method: With a pretest and posttest design and a control group, this study was performed on 34 teachers from two schools in Tehran, selected by multi-stage cluster sampling. After randomly allocating teachers to the test and control groups, they complete the Human Psychological Flourishing Scale and Flourishing Questionnaire. Then, the educational-interventional flourishing protocol was only presented to the test group during 14 sessions. The questionnaires were filled again by all the subjects at the end of the course.

Results: According to the results of the univariate and multivariate covariance analyses, flourishing training significantly increased all the components of flourishing in the test group, compared to the control group.

Conclusion: According to the results, the application of educational-interventional flourishing protocol increased all the components of flourishing among teachers (e.g., positive emotion, relationships, meaning, and accomplishment, sense of satisfaction/happiness, individual competency and social contribution). Therefore, this protocol can be applied to promote the flourishing of teachers.

Keywords: Positive Psychology, Human Flourishing, Educational-interventional Protocol

Introduction

Human flourishing has long been the primary subjects of research in human psychology and has recently attracted the attention of a branch of psychology called positive psychology [1]. Positive psychology studies human optimal functioning; and helps to obtain a better understanding of factors affecting the prosperity and flourishing of individuals and communities [2-4]. Therefore, positive psychology is considered as the science of happiness and human flourishing [5].

Positive education is a new paradigm, which uses positive psychology in educational environments by investing in the potential of schools for education and improvement of wellbeing and flourishing of individuals [6]. Not only the use of positive education in schools has led to significantly satisfactory educational results, but also it has been associated with the growth and formation of proper characteristic, wellbeing and flourishing of all
individuals in the schools [7-10].

Flourishing is a combination of having a good feeling and good performance; it is synonymous with a high level of well-being and optimal mental health [11]. Seligman, the father of positive psychology, proposed five components for flourishing which are termed as PERMA: Positive Emotions, Engagement, Relationships, Meaning in Life, and Accomplishment [7]. Soleimani et al. [12], confirmed four of the five components of Seligman’s PERMA model among Iranian university students (PRMA).

Since some scholars believe that components of flourishing are different in various sociocultural textures [13-15], Hojabrian et al. [16], presented the human psychological flourishing model in the sociocultural context of Iran. According to this model (as shown in Figure 1), the determinants of human flourishing are teleological thinking, flourishing motivation, values/character strength, social-environmental-cultural conditions, positive emotion, positive relationship, personality traits (extraversion, openness and conscientiousness) and self-management; proper combination and interaction of which could lead to flourishing (consisting of sense of satisfaction/happiness, individual competency and social contribution) [16]. Sense of satisfaction/happiness is the first component of flourishing. A flourished person is satisfied with his/her performance and life, has a happy feeling, and loves life. The second component constituting flourishing is individual competency. Competency indicates how people should accomplish their duties or react in a particular situation or behave according to the situation. The third constituent component of flourishing is social contribution. In addition, to individual achievements, a flourished person will constructively involve in the community and endeavors towards the promotion of others’ well-being. Such a person can offer important contributions to the community, spend time and energy to help improve the community, and his/her daily activities and actions will lead to fruitful results for the community [12, 17].

In the present research, it was aimed to provide an applicable framework for positive education in Iranian schools based on the Human Psychological Flourishing Model (HPFM) presented by Hojabrian, et al., in order to nurture and enhance flourishing and assess its effectiveness on teachers. Therefore, this research aimed to investigate the effectiveness of positive education on the flourishing of teachers and its components (three components presented in Hojabrian, et al.’s research [1, 16]: a sense of satisfaction/happiness, individual competency and social contribution; and four components confirmed in Soleimani, et al.’s study [12]: positive emotion, relationships, meaning and accomplishment).

**Method**

This quasi-experimental and applied research was performed with a pretest-posttest design and a control group. The statistical population included all high school teachers in district 12 of Tehran selected by multistage cluster sampling method. In this regard, Tehran was at first divided into five geographical districts (north, south, east, west, and center) and a geographical district was randomly selected (the central district). Afterwards, one school (Alavi High School in education region 12 of Tehran) was randomly selected from the schools of this district. In addition, Salman High School was selected as another girl’s high school in the same region in order to have matching tests and control groups. Following that, 17 teachers were selected from each school, and a total of 34 teachers were randomly entered into the study as the statistical population. It is notable that the teachers of the test and control groups were selected from different schools (Salman High School and Alavi High School, respectively) to prevent the distribution of experimental practice. The entry criteria included voluntary participation, not being employed at both sample schools, and commitment to attend all training sessions. The exit criteria included unwillingness to continue cooperation or being absent for more than two sessions. Data were collected using two questionnaires and a researcher-made educational-interventional protocol, as presented below.

Flourishing Questionnaire (FQ) by Soleimani et al: This 28-item questionnaire has been created by a factor analysis method based on Seligman’s PERMA model, and contains acceptable and satisfactory psychometric properties [12]. The reliability of the factors of positive emotion, relationship, meaning, achievement and the whole questionnaire was reported to be satisfactory and desirable at Cronbach’s alphas of 0.91, 0.83, 0.88, 0.87 and 0.95, respectively. Moreover, the items are scored based on a six-point Likert scale. The total flourishing score is obtained within the range of 28-168, and the score of each item is in the range of 7-42.

**Human Psychological Flourishing Scale (HPFS):** This scale has been created based on the domestic flourishing model proposed by Hojabrian et al. [16]. With the application of the factor analysis method, this 12-item scale has acceptable and satisfactory psychometric properties. According to this model, flourishing encompasses three components of sense of satisfaction/happiness, individual competency, and social contribution. Results indicated that HPFS contained proper reliability coefficients (Cronbach’s alpha), in a way that the reliability values of factors of satisfaction/happiness, individual competency, social contribution and total questionnaire were favorable and satisfactory at levels of 0.83, 0.77, 0.79 and 0.87, respectively. The items are scored based on a six-point Likert scale. The total flourishing score is within the range of 12-72, and the score of each factor is in the range of 4-24 [1].

**Researcher-made Educational-Interventional Protocol for Nurturing and Promoting Flourishing:** This protocol was designed based on the Human Psychological Flourishing Model (HPFM) by Hojabrian et al. proportional to the sociocultural context of Iran (Figure 1) [16]. In order to design the protocol, the available literature and
similar domestic and foreign studies were reviewed, followed by preparing the required workshop training related to each component of the flourishing model using positive psychology teachings. After on, the whole educational-interventional protocol, including scheduling, implementation method and agenda of meetings were designed. In order to evaluate the content validity of the protocol, the opinions of five positive psychology experts were gathered about the protocol. In the next stage, some necessary modifications were applied in the protocol content based on these opinions, followed by the final confirmation of the protocol. The structure and content of the designed protocol are expressed in Table 1. It is notable that the program was held in the form of 14 three-hour sessions (a total of 42 hours).

After designing the educational-interventional flourishing protocol, 17 teachers were randomly selected from Salman Farsi and Alavi high schools. Following that, teachers of Salman and Alavi high schools were randomly allocated to the test and control groups, respectively. Meetings were held with each group, and pretest was performed after explaining the research design. After performing the pretest, which involved use of FQ by Soleimani et al. and HPFS by Hojhabrian et al., the designed flourishing protocol was implemented only for the test group, and the control group received no education. In addition, attempts were made to match the main form of the flourishing education protocol with the time of teachers in Iranian schools. At the end of the sessions, all subjects filled the flourishing questionnaires (posttest), and results were analyzed to assess the effectiveness of the flourishing program.

Results
In this research, all of the participants in the test and control groups were female and within the age range of 33-57 years. In total, each of the test and control groups were allocated to 17 participants from Salman and Alavi high schools, respectively. In terms of descriptive indicators of groups, mean and standard deviation of age in the test and control groups was 45.58±5.60 years and 46±6.58 years, respectively. At first, the outliers were assessed to prepare data for processing. In this regard, the results were indicative of the presence of no outliers.

Table 2 shows the mean and standard deviation of flourishing components in the test and control groups before and after the implementation of the flourishing protocol.
Table 1. Educational-interventional Protocol for Promoting Flourishing

<table>
<thead>
<tr>
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<td>- Human Psychological Flourishing Model [16]</td>
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<td>Session 2</td>
<td>- Introducing the sense of meaning in life and methods to achieve it [18-22]</td>
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<td>teleological thinking</td>
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<td>- Evaluating the character strength of individuals [23]</td>
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Furthermore, the multivariate covariance analysis (MANOVA) was applied to evaluate the effect of educational-interventional flourishing protocol on flourishing components, including positive emotion, positive relationships, meaning, and achievement, sense of satisfaction/happiness, individual competency, and social contribution of teachers. One of the assumptions of this test is uniformity of covariance matrix, assessment of which was carried out applying the Box M test. Results of the mentioned test indicated the lack of adherence to uniformity of assumption of the covariance matrix (P < 0.05). Therefore, Pillai’s trace was regarded as the multivariate index for reporting according to the recommendation by Tabachnick and Fidell [44]. In addition, the uniformity of the assumption of variance of error was confirmed using the Leven test (P > 0.05). On the other hand, a significant correlation was found between the dependent variables of the research applying the Bartlett test.

Moreover, interaction F-value was estimated between the covariance and dependent variables separately for each dependent variable to evaluate the homogeneity of regression slope. The results confirmed the establishment of the assumption, demonstrating that P-value was greater than 0.05 in all cases (P > 0.05). Furthermore, the linear correlation between covariance and dependent variables was assessed applying the Pearson’s correlation test. In this respect, the range of correlations was 0.50-0.79 and significant at P < 0.01, thereby showing a significant linear association between the covariance and dependent variables.

After the evaluation of assumptions, MANOVA was applied to assess group differences in linear composition of dependent variables. As presented in Table 3, results of Pillai’s trace indicated a significant difference between the dependent variables of the test and control groups, where 30-40% of flourishing changes in the subjects was determined by the educational-interventional flourishing
protocol. On the other hand, the univariate covariance analysis was applied to determine which dependent variables in the test and control groups have a significant difference. As shown in Table 4, after removing the pretest effect, results of posttest showed a significant difference between the study groups in all of the evaluated variables. This difference demonstrated the great improvement of flourishing in the test group after training, compared to the control group. Ultimately, these results were indicative of the effectiveness of training on the flourishing of high school teachers.

**Discussion**

According to the results of the present study, flourishing improved in teachers using positive psychology teachings and positive education. In this regard, the findings of this study are congruent with other studies [45, 46].

Positive education improved all flourishing components, including positive emotion, positive relations, meaning, and achievement based on Soleimani’s FQ and sense of satisfaction and happiness, individual competency and social contribution based on Hojhabrian’s scale, in the present research. According to findings, positive education of flourishing improved the sense of meaning in the test group. Various studies have demonstrated that individuals who have goals in their lives have a longer lifespan, are more satisfied with life, and experience fewer health problems [47].

In addition, those who consider a positive ending for their problems experience better mental wellbeing [48]. Furthermore, they find meaning for themselves after negative life events, and have the ability to reach a positive level of daily functions [49]. It was also found that positive training of flourishing increased positive emotion in the test group. In general, improvement of positive emotions could lead to significant social, psychological, physical and intelligence benefits for individuals [50]. In addition, positive emotions can predict longer lifespan [51-53] and eliminate the effects of negative emotions [54], thereby increasing the resilience of individuals [55]. People who experienced positive emotions had a higher level of thinking and mental abilities, compared to those who experienced negative events, since negative emotions restrict momentary thinking-practice range in individuals [27].

Moreover, results of the present study demonstrated that positive education of flourishing improved the relationships in the test group. Generally, good relationships are essential for wellbeing and might be associated with increased happiness and more efficient performance. Individuals with good relationships deeply care for other people [56]. Diener et al. [57], marked that proper social relations predicted the mental wellbeing of individuals in all of the evaluated countries, and it may be the most important source of personal wellbeing. It could be concluded that proper relationship is the most efficient predictor of satisfaction with life. In the present research, achievement/accomplishment of the subjects improved after positive training of flourishing. Competent individuals have determination and courage. Not only they finish what they have started, but they also have determination and resilience in achieving long-term goals. Determination prepares these people to deal with difficulties in life. In addition, those with specific goals, determination and commitment more efficiently perform their jobs, compared to individuals without a specific goal, determination or commitment [58].

Analysis of the data obtained from Hojhabrian’s scale demonstrated that positive education of flourishing increased sense of satisfaction and happiness in teachers. Satisfaction with life is defined as positive-emotional assessment of life [57]. This term is indicative of an extended evaluation of one’s life performed by the person. In addition, it can show the judgment of the individual about all aspects of life at a certain point in time or integrated judgment about the person’s life since birth [59]. Happiness is also defined by Seligman as involvement in positive emotions, commitment to life and having meaning in life [20]. According to Lyubomirsky et al., happiness is the sense of joy and good feeling and living a meaningful and valuable life [60]. Happy individuals are mostly healthy and optimistic and are happy with their existence. They also consider life to be valuable and live in peace and understanding [61, 62].

Positive education of flourishing plays a role in the improvement of individual competency in teachers. Competency shows how a person must perform his duties, react toward a specific situation, and behave in general [63]. Therefore, competent individuals can properly perform their responsibilities, have great skills and competencies, use the available opportunities to demonstrate their capabilities and dominate the important activity areas [7, 11, 13, 64]. Positive education of flourishing enhanced positive performance and also the social contribution of teachers. In other words, a flourished person not only has individual accomplishments, but also constructively participates in social affairs and contributes in order to increase the wellbeing of others.

In addition, these type of people can make significant contributions to the society, spend time and energy to improve the community, perform daily activities and have valuable results for other people [64]. In addition to the mentioned statistical evidences regarding the effectiveness of educational-interventional flourishing protocol, non-statistical evidence has been obtained in terms of the positive effect of holding flourishing training workshops. After the implementation of the training workshop in the test school, the program was held in many other schools of Tehran when requested by their managers.

**Conclusion**

Positive education of flourishing based on the educational-interventional protocol increased the flourishing of individuals. Compared to similar studies, one of the major advantages of the current research is that in addition to the integration of approaches to human flourishing (e.g., sense of satisfaction, proper performance and social wellbeing), it presented the process of flourishing based on effective, predisposing, facilitating or interfering factors. The components of
flourishing in humans separately for each factor, explained the educational workshop proportional to each factor step by step. In the current research, the effect of the educational-intervention flourishing protocol was assessed on teachers. Therefore, it is recommended that the effectiveness of this process be evaluated on other samples, including high school and university students, employees and common people, and in psychological interventions in order to improve flourishing in future studies. In addition, a pretest-posttest design and a control group were used in the present study, where the control group received no type of intervention. As such, the effectiveness of this method can be compared to other techniques in future studies and follow-ups can be used to determine the long-term effectiveness of this method. In conclusion, use of positive psychology, especially education of flourishing based on the educational-interventional flourishing protocol, can improve flourishing in teachers. Therefore, this protocol can be applied to enhance flourishing in these individuals.

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