



Health Management: Designing and Explaining the New Health Model in Schools

Zohreh Sabzianpour ¹ and Maryam Islampanah ^{1,*}

¹Educational Department, Kermanshah Branch, Islamic Azad University, Kermanshah, Iran

*Corresponding author: Educational Department, Kermanshah Branch, Islamic Azad University, Kermanshah, Iran. Email: m.islampanah@iauksh.ac.ir

Received 2019 June 17; Accepted 2019 December 17.

Abstract

Objectives: The purpose of this study is to explain and elaborate a model for the competence of school principals as the health leaders. In this paper, we focused on the role of school principals in managing a healthy school.

Methods: The research method is a descriptive-cross sectional type combination. In the qualitative section, thematic analysis was used and in the quantitative part a confirmatory factor analysis was used. The statistical community of the qualitative section includes all valid scientific databases in the period 2000 - 2018 in the field of school health management. In the quantitative part, the statistical society includes 823 school principals of Kermanshah province. One hundred and twenty randomly participated in this research.

Results: In the qualitative section for the health management, four components of physical health, mental health, happiness and physical safety, as well as eleven sub-components were validated. Consequently, the conceptual model was extracted and the researcher-made questionnaire of health management had high validity and reliability.

Conclusions: According to the results of confirmatory factor analysis, the instrument has a good fit. Also, with the meaningfulness of the paths, the appropriateness of the structural model of the research was determined.

Keywords: School Management, Health Management, Student Health

1. Context

A child's development can evolve from many interaction of congenital, family cultural, and environmental factors. Cognitive development and a child's learning abilities can be assigned to different variables. Cognitive performance can be related to physical health (1). For example children who experience medical distress have lower academic achievement (2). Moreover, poor health leads to lower participation in daily school activities (3). Children with medical conditions have difficulties in building critical emotional bonds with their teachers (4).

Therefore, based on the recent studies, students who have medical distress will show low educational level and will experience social and economic inequalities, and behavior problems also in their adulthood (4, 5). Health behavior is closely related to academic achievement (6); so, improving a child's physical health will lead to the higher level of academic performance (7-9).

A child's physical health, and in particular physical fitness, is related with improving the child's confidence, increasing the attention, reducing the health problems, im-

proving social engagement, reducing obesity, increasing organization, and hosting many potentially protective factors for students at risk for poor school outcomes (10). Low levels of physical fitness leads to lower mental health and academic problems (11, 12). Children who are experiencing health problems are at higher risk for school failure, grade retention, and dropout.

Such critical role of health associated with students' educational development, requires school psychologists to become responsible for improving students' health which ultimately leads in decreasing the risk associated with various medical issues.

The common manageable factors of student health can be categorized in to nutrition, maintaining healthy weight, and physical fitness. However, school principals neglect and do not promote the school health. Due to societal changes and important school reforms, the job requirements of school principals have dramatically changed (13). Despite the progress school health promotion has made in recent years, surprisingly principals and their roles have scarcely been examined in theory and practice. This might be related to the primary responsibility for

most school matters which lies with the school administration.

Thus, it is not surprising that a wealth of educational research has shown that school leaders do make a difference in school effectiveness and school improvement (14). The same can be expected with regard to the success of school health promotion activities.

Recent studies show that principals as “gatekeepers” to school innovations have significant role on whether or not a school will become and remain a healthy organization (15, 16). Within all phases of the school health development process, principals are responsible for e.g. building and maintaining high motivation (e.g. through vision building), supporting their school staff in developing the skills needed for successful change, coordinating the processes and activities, and encouraging the school staff to sustain new practices and activities.

In order to improve the mental health of students, educational and non-educational factors are very important. Providing education consultancy to increase the students’ interest in the field of their study as well as non-educational counseling to reduce problems are important steps in increasing the school health (17).

In examining the relationship between happiness and mental health status among students, Moeini et al. (17), have shown that happiness is related to mental health, therefore planning to increase happiness in students can be considered as one of the ways to improve mental health.

Abassi et al. (18), conduct a study regarding to the mental health of students. They found that students mental health is associated with variety of factors, such as school, home, and more attention to the role of school training. To improve the mental health of students schools should establish appropriate settings, as well as providing conditions that school authorities, psychologists and other educators can be familiar with mental health topics (18).

In reviewing managerial styles with mental health and creativity by Aftabsavar et al. (19), it was found that there is not a meaningful relationship between managerial styles and mental health, but there is a significant and negative relation between mental authority orientation and mental health. There is also a significant and positive relationship between management styles and creativity, and there is a significant negative relationship between creativity and mental health dimensions (social disorders and depression). However, physical and anxiety disorders do not have a significant relationship with creativity of teachers (19).

2. Objectives

As a result, in the process of school progress and the achievement of a healthy school, the principals are respon-

sible from beginning to end. Therefore, the main purpose of this research is to explain the conceptual framework for the school leadership as health management. Considering the above goal, the following research questions are considered: What are the factors and components of this competence?; What is the validity of the identified factors in the management of schools in the statistical society?

3. Methods

This is a descriptive-analytic study using a cross-sectional method. The research was combined with qualitative and quantitative research in a descriptive-cross-sectional study. The qualitative analysis method, thematic analysis, and quantitative analysis of confirmatory factor analysis were used. The statistical society of the qualitative section is Internet databases and scientific information banks in the period 2000 - 2018 in the field of management competence. For comprehensive review of valid documents in the subject area of research, all scientific productions at the Scopus citation database with keyword searches: “health school”, “student health”, “school happiness”, “student mental health”, “physical fitness”, “school principal”, “school management”, “school leadership” was considered. By referring to these sources, all available information was selected and checked. A total of 200 sources were identified and, after re-examining, there were finally 70 resource-related remained and by studying the line to line in the articles and resources coded manually. In the qualitative section, a comprehensive health management theme was identified. Health management was identified with four pre-organizers of physical health, mental health, happiness and physical safety, which included 11 base themes. Statistical population of the quantitative part of the study was 823 school principal of Kermanshah Province and finally 120 principal randomly participated in this research. The instrument for collecting in this research was a researcher-made questionnaire with 53 items, which, based on thematic analysis and conceptual model of extraction, was prepared with a reliable validity and reliability under the supervision of experts. The multi-item constructs were measured on five-point Likert scales which ranged from “totally agree” (1) to “totally disagree” (5). The pre-organizing of physical health includes individual and general health (questions 1 to 2), nutrition (3 to 9) and physical fitness and physical activity (10 to 13). Mental health dimension includes psychological competence (14-16), mental health education (17 to 25) and psychological intervention and profession treatment (26 to 29). Happiness dimension includes environmental (30 to 34), educational (35 to 40) and emotional (41 to 46). Physical safety includes

standards and agronomics (47 to 50), training and preparation contrast disasters (51 to 53). To confirm the validity of the questionnaire, experts were used, and the Cronbach's alpha was used to determine its reliability. A Confirmatory factor analysis method was used for data analysis using SmartPlus3 software. In the confirmatory factor analysis, the questions that had the most impact were identified and the significance of the research dimensions as well as the severity of the effect of each of its components and its contents on the health management was determined. Finally the final model was confirmed.

4. Results and Discussion

This section consists of a thematic analysis process and consists of two sections of coding and analysis of concepts. In coding, all sources were first reviewed and, after reviewing, related resources were identified. Different content from various articles and books was originally lacking in coherence. Each source and reference looked from different angle to the managerial competencies. In the codification process, individual articles and resources considered and taking into account the general concept, selected parts of the text of the sources that were explicitly or implicitly associated with the code. Given the meaning of each concept, a name is assigned to that concept in the text and is included in the explanation in that section of the relevant source. After, with more text encodings, the file was continually being referred to and examined whether the specified section is related to one of the assigned themes or whether a new topic should be determined. During the work, these themes were revised and changed several times (Table 1).

Table 1. Related Topics of Health Management

Variable	Organizing Themes	Frequency of Codes
Health management	Physical health	43
	Mental health	23
	Happiness	66
	Physical safety	31

As shown in the table above, the theme of health management has four dimensions of physical health with 43 codes, mental health with 23 codes, happiness with 66 code and physical safety with 31 codes.

Parts of the content related to the topic "physical health" are from the source text: Scientific evidence about the relation of the children and adult's health with washing hands, eating safe water and using a suitable sewage system is very high. In 1990, the World Health Organization (WHO) and the UNICEF developed a joint monitoring

program for water supply, sanitation, and hygiene (WASH) across the world. Since that time, the program (WASH) has been a world leader in comparing progress in improving drinking water, sewage, and sanitation in the world. Nutrition is associated with the overall physical health and academic performance (20). Nutrition is considering as a problematic issue for school children (21). Food with high sodium, high fat, and low protein profiles are increasingly available and mostly not expensive. Physical activity is related with physical fitness program. However, the children's consumption of low nutrition-dense foods is increasing and school-aged children spend less hours in doing physical activities (22).

Parts of the material related to the theme "mental health" from the source text are as follows: Mental health as a large part of the students health, has a complex interaction with physical health and greatly relates success of the students' School, work and society. Both mental and physical health affect how we think, how we feel, as well as our inner and outer behaviors. Therefore, all children have the right to have a happy and healthy life. When we discuss health, many people think physically and they are less concerned about the importance of mental health. Mental health issues such as low self-esteem, stress, coping with emotional issues has a clear impact on physical health, as well as a lack of physical health can impact on mental health such as stress, depression and anxiety (23). Mental health, It does not mean having mental illness, but it includes good social communication, emotions, behavioral health, and the ability to adapt to the challenges of life (24).

Parts of the content related to the theme of "happiness" from the source text are as follows: A high level of happiness is associated with positive outcomes in various aspects of life, such as effective learning, creativity, innovation, good communication, appropriate social behavior, health and longevity (25). In other words, happiness means how much a person likes his life. Research shows happiness is one of the factors that can improve physical health. Lyubomirsky et al. (26) examines the role of individual factor in the happiness of individuals. He found that in particular in schools, students can successfully solve many future problems that may have a negative impact on them if they are raised with positive attitudes. If we want students to experience the process of learning in school, we need to bring joy and happiness to the learning environment for them, as well as review the content of education. Today, the use of schools is not for examinations and lessons, but for human development (27).

Parts of the content related to the topic "physical safety" from the source text are as follows: A secure and safe learning environment suggests that children should be

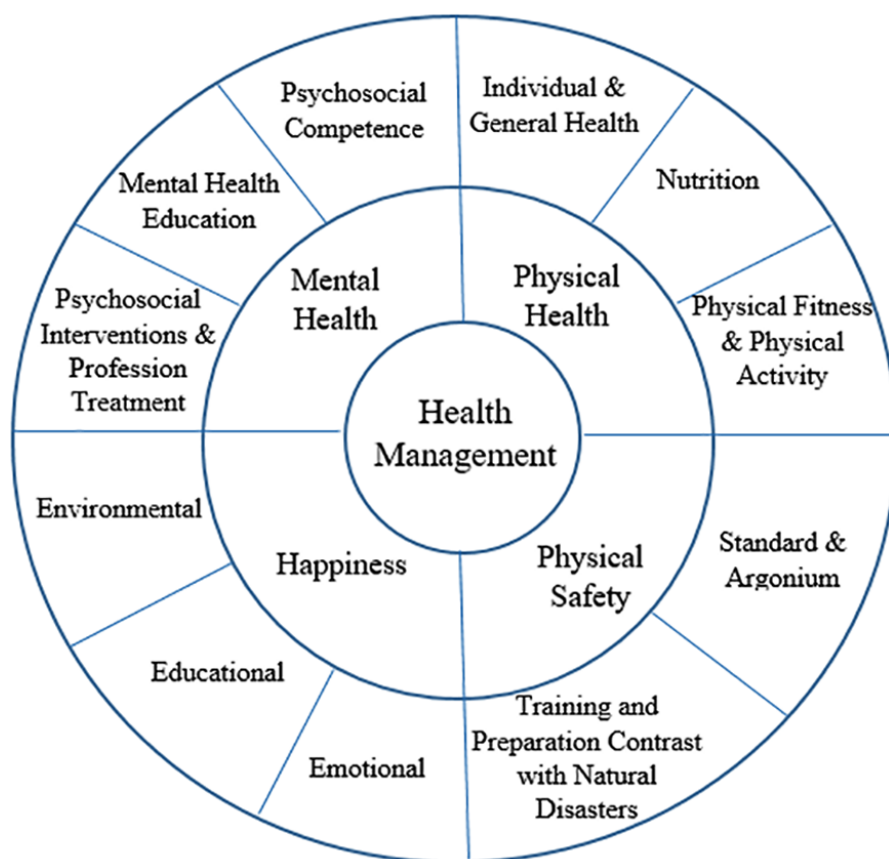


Figure 1. Conceptual health management model

protected from physical harm. Solutions to prevent accidents and injuries in the hands of the “manager” a person who creates calm and security by preventing unsafe situations in school. Unsafe activities and unsafe conditions are one of the major factors in the failure of a manager, which may affect the physical and mental conditions of employees as well as students. Physical infrastructure such as classrooms, staff rooms, toilets, kitchens, drinking rigs, playgrounds and other appliances is proportionate, and adequate to avoid any risk for users. Different standards for building schools are considered, such as: the size of the class with the number of students, the class should have proper roof, window, flooring and also ventilation (28).

In Figure 1, the research model is presented for school health management.

The evaluation of the modeling of health management in schools using Smart-PLS software was done in two steps: (A) Validity and reliability evaluation of the model; (B) assessing the structural model. The results of the SmartPLS software evaluated the validity and reliability of the mea-

surement model according to the criteria used in the reflexive and developmental exterior models. In this way, first of all, the accuracy of the relationships in the measurement models is ensured by using reliability and validity criteria, and then the relationship between the structural part is examined and interpreted, and in the final stage, the goodness of fit of the research model is examined.

The fitting of measuring models includes reliability and validity of research structures. The reliability of the test relates precisely to its size and stability. Cronbach’s alpha is a classic criterion for measuring reliability and an internal sustainability assessment index. Internal stability indicates the correlation between a structure and its related indexes. In the case of variables with low number of questions, the alpha coefficient of 0.6 is introduced as the threshold limit of the coefficient and more than 0.7 is a reliable indicator.

In order to determine the reliability of each of the structures, in addition to the traditional Cronbach’s alpha, more modern criterion of composite reliability (CR) has

Table 2. General Criteria for Model Quality

Variables	AVE	CR	R ²	Cronbach's Alpha
Physical health	0.429	0.904	0.810	0.883
Individual and general health	0.715	0.834	0.417	0.606
Nutrition	0.476	0.859	0.929	0.805
Physical fitness and physical activity	0.595	0.853	0.795	0.767
Mental health	0.542	0.949	0.701	0.942
Psychosocial competence	0.804	0.924	0.717	0.878
Mental health education	0.601	0.931	0.954	0.916
Psychosocial interventions and profession treatment	0.629	0.869	0.713	0.798
Happiness	0.448	0.929	0.861	0.918
Environmental	0.582	0.871	0.597	0.816
Educational	0.560	0.879	0.822	0.828
Emotional	0.665	0.922	0.792	0.897
Physical safety	0.727	0.914	0.583	0.874
Standard and argonium	0.727	0.914	0.999	0.874
Training and preparation contrast with natural disasters	0.772	0.910	0.620	0.8520

been used. The superiority of this criterion to the Cronbach's alpha coefficient is that the reliability of the structures is calculated not absolute but with respect to the correlation of their structures. To measure better the reliability of both criteria is used. The composite reliability value above 0.7 for each structure indicates an intrinsic stability for measuring models and indicates a value of less than 0.6 in the absence of reliability (29). The combined stability values for research structures are higher than 0.8.

After reviewing the reliability criterion, the second criterion is the average variance extracted (AVE). The AVE criterion represents the average of the variance shared between each construct with its own indexes and it should be at least 0.5. In Table 2. The general criteria of the model's quality are expressed. Since the values of each of the variables are defined more than the threshold, therefore, the appropriateness of the reliability status and the convergent validity of the research model can be confirmed.

In Table 3, factor load values and *t* value for each item are reported. With regard to the results of the output of the SmartPLS software, the perceived school health management framework can be concluded because the magnitude of the load factor of the observed variables and the corresponding variable is appropriate values (mostly higher than 0.7) There are a high correlation and validity between the research questions and sub-components.

Tables 4 and 5, report the results of a confirmatory factor analysis for the main variables and its sub-components,

at the level of dimensions in the school health management model.

To evaluate the fit of the structural model, the several criteria is used, the first and most fundamental of which is the *z* coefficient, or the values of *t* values, which are represented by the execution of the bootstrap command of the values on the lines. If the values of *t* are greater than 1.96, then the correlation between the structures is 95% in the confidence level. In Figure 2, values are shown to evaluate the structural part of the model. Given that all numbers on the paths are higher than 1.96, this indicates the significance of the paths, the appropriateness of the structural model of the research.

To evaluate the fit of the model in partial least squares, we use the goodness of fit (GOF). In this model, the GOF is equal to 0.64, indicating an upper general fit for the structural model.

5. Conclusions

During school years of life, children improves their physical, motor, social intelligence, cognitive and language development. So these early childhood growth can open up a window of opportunity to provide a strong foundation for their life and future and protecting them from unsafe condition.

Neuroscience demonstrates great influenced of early experiences in brain development. Attention to health, nu-

Table 4. Factor Load Values and t Values of Base Themes

Variable	Indicator	Factor Load	t Value
Physical health	Individual and general health	0.646	7.630
	Nutrition	0.964	140.420
	Physical fitness and physical activity	0.892	48.612
Mental health	Psychosocial competence	0.847	24.306
	Mental health education	0.977	159.102
	Psychosocial interventions and profession treatment	0.844	24.465
Happiness	Environmental	0.733	19.628
	Educational	0.907	34.987
	Emotional	0.890	24.253
Physical safety	Standard and argonium	1.000	8194.908
	Training and preparation contrast with natural disasters	0.788	12.981

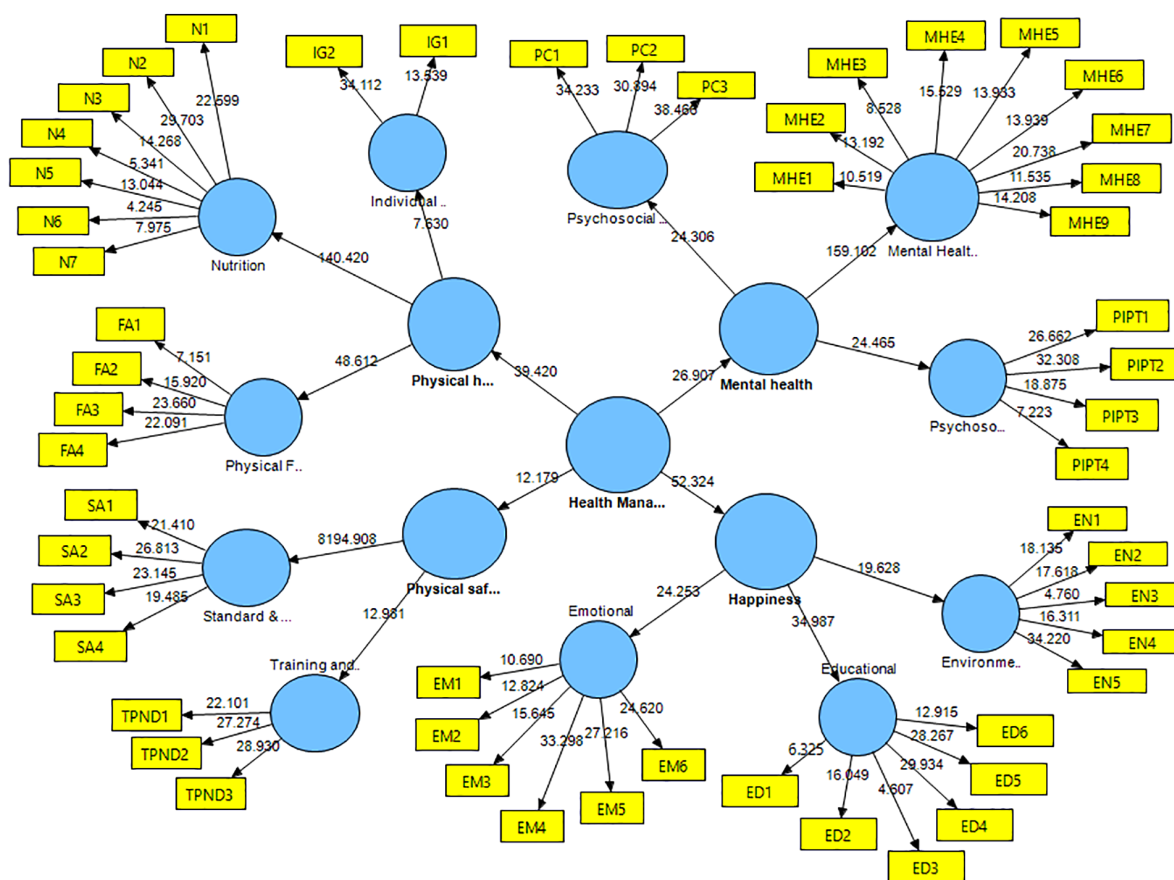


Figure 2. Confirmatory factor analysis

Table 5. Pre-Organizing Factor Load Values and *t* Values

Variable	Indicator	Factor Load	<i>t</i> Value
School health management	Physical health	0.900	39.420
	Mental health	0.837	26.907
	Happiness	0.928	52.324
	Physical safety	0.764	12.179

trition and early stimulation in the early years can facilitate brain development and leads to children's wellbeing. Early care during growth, educational programs can lead to appropriate child development, as well as provide a basis for lifelong learning. If children are exposed to negative conditions and experiences during the early years of life, it negatively impact all aspects of life such as social and economic development and human capital formation of nation.

Schools, as the most important place for future generations, should be a healthy and dynamic environment. Creating a happy and vibrant environment will help a lot of learners to learn. Therefore, more and more effort should be made to improve the health of schools. In an unsafe environment, teaching and learning cannot be appropriate for both students and teachers, school principals have a role to play in creating a safe, secure, and learning environment for students. The purpose of this study was to explain and elaborate a model for the competence of school principals as the health leaders and change agents. In this paper focused on the role of school principals in an effort to manage a healthy school.

In addition to the principles of planning, organizing, commanding, and monitoring, managers also seem to need other skills that support mental, emotional and intuitive performance.

The competency model is the heart of the approach based on the competence of human resources, and it is suggested that the model be used in practice. By giving more authority to school administrators, they will provide the groundwork and conditions for achieving these goals.

Footnotes

Conflict of Interests: The authors declare no conflict of interest.

Funding/Support: This research received no external funding.

References

1. Dewa CS, Lin E. Chronic physical illness, psychiatric disorder and disability in the workplace. *Soc Sci Med.* 2000;**51**(1):41-50. doi: [10.1016/S0277-9536\(99\)00431-1](https://doi.org/10.1016/S0277-9536(99)00431-1). [PubMed: [10817467](https://pubmed.ncbi.nlm.nih.gov/10817467/)].

2. Spernak SM, Schottenbauer MA, Ramey SL, Ramey CT. Child health and academic achievement among former head start children. *Child Youth Serv Rev.* 2006;**28**(10):1251-61. doi: [10.1016/j.chilgyouth.2006.01.006](https://doi.org/10.1016/j.chilgyouth.2006.01.006).
3. Hanson TL, Austin G, Lee-Bayha J. *Ensuring that no child is left behind. How are student health risks & resilience related to the academic progress of schools?* San Francisco, CA: WestEd; 2004. Available from: <https://eric.ed.gov/?id=ED486329>.
4. Needham BL, Crosnoe R, Muller C. Academic failure in secondary school: The inter-related role of health problems and educational context. *Soc Probl.* 2004;**51**(4):569-86. doi: [10.1525/sp.2004.51.4.569](https://doi.org/10.1525/sp.2004.51.4.569). [PubMed: [20354573](https://pubmed.ncbi.nlm.nih.gov/20354573/)]. [PubMed Central: [PMC2846654](https://pubmed.ncbi.nlm.nih.gov/PMC2846654/)].
5. Case A, Fertig A, Paxson C. The lasting impact of childhood health and circumstance. *J Health Econ.* 2005;**24**(2):365-89. doi: [10.1016/j.jhealeco.2004.09.008](https://doi.org/10.1016/j.jhealeco.2004.09.008). [PubMed: [15721050](https://pubmed.ncbi.nlm.nih.gov/15721050/)].
6. Sigfusdottir ID, Kristjansson AL, Allegrante JP. Health behaviour and academic achievement in Icelandic school children. *Health Educ Res.* 2007;**22**(1):70-80. doi: [10.1093/her/cyl044](https://doi.org/10.1093/her/cyl044). [PubMed: [16766605](https://pubmed.ncbi.nlm.nih.gov/16766605/)].
7. Roberts CK, Freed B, McCarthy WJ. Low aerobic fitness and obesity are associated with lower standardized test scores in children. *J Pediatr.* 2010;**156**(5):711-8. 718 et. doi: [10.1016/j.jpeds.2009.11.039](https://doi.org/10.1016/j.jpeds.2009.11.039). [PubMed: [20097353](https://pubmed.ncbi.nlm.nih.gov/20097353/)]. [PubMed Central: [PMC2909322](https://pubmed.ncbi.nlm.nih.gov/PMC2909322/)].
8. Taras H, Potts-Datema W. Obesity and student performance at school. *J Sch Health.* 2005;**75**(8):291-5. doi: [10.1111/j.1746-1561.2005.00040.x](https://doi.org/10.1111/j.1746-1561.2005.00040.x). [PubMed: [16179079](https://pubmed.ncbi.nlm.nih.gov/16179079/)].
9. Telford RD, Cunningham RB, Fitzgerald R, Olive LS, Prosser L, Jiang X, et al. Physical education, obesity, and academic achievement: A 2-year longitudinal investigation of Australian elementary school children. *Am J Public Health.* 2012;**102**(2):368-74. doi: [10.2105/AJPH.2011.300220](https://doi.org/10.2105/AJPH.2011.300220). [PubMed: [21940922](https://pubmed.ncbi.nlm.nih.gov/21940922/)]. [PubMed Central: [PMC3483976](https://pubmed.ncbi.nlm.nih.gov/PMC3483976/)].
10. Sallis JF. We do not have to sacrifice children's health to achieve academic goals. *J Pediatr.* 2010;**156**(5):696-7. doi: [10.1016/j.jpeds.2010.01.011](https://doi.org/10.1016/j.jpeds.2010.01.011). [PubMed: [20304427](https://pubmed.ncbi.nlm.nih.gov/20304427/)].
11. Erickson SJ, Robinson TN, Haydel KF, Killen JD. Are overweight children unhappy?: Body mass index, depressive symptoms, and overweight concerns in elementary school children. *Arch Pediatr Adolesc Med.* 2000;**154**(9):931-5. doi: [10.1001/archpedi.154.9.931](https://doi.org/10.1001/archpedi.154.9.931). [PubMed: [10980798](https://pubmed.ncbi.nlm.nih.gov/10980798/)].
12. Leatherdale ST. A cross-sectional examination of school characteristics associated with overweight and obesity among grade 1 to 4 students. *BMC Public Health.* 2013;**13**:982. doi: [10.1186/1471-2458-13-982](https://doi.org/10.1186/1471-2458-13-982). [PubMed: [24139176](https://pubmed.ncbi.nlm.nih.gov/24139176/)]. [PubMed Central: [PMC4015821](https://pubmed.ncbi.nlm.nih.gov/PMC4015821/)].
13. Dadaczynski K, Paulus P. *Healthy principals – healthy schools? A neglected perspective to school health promotion.* Germany: Springer, Dordrecht; 2015. p. 253-73. doi: [10.1007/978-94-017-9171-7_12](https://doi.org/10.1007/978-94-017-9171-7_12).
14. Gerhard Huber S. School leadership and leadership development: Adjusting leadership theories and development programs to values and the core purpose of school. *J Educ Adm.* 2004;**42**(6):669-84. doi: [10.1108/09578230410563665](https://doi.org/10.1108/09578230410563665).
15. Samdal O, Marks R, Rowling L. Theoretical and empirical base for implementation components of health-promoting schools. *Health Education.* 2011;**111**(5):367-90. doi: [10.1108/09654281111161211](https://doi.org/10.1108/09654281111161211).
16. Viig NG, Fosse E, Samdal O, Wold B. Leading and supporting the implementation of the Norwegian Network of Health Promoting schools. *Scand J Educ Res.* 2012;**56**(6):671-84. doi: [10.1080/00313831.2011.621139](https://doi.org/10.1080/00313831.2011.621139).
17. Moeini B, Mohammadi Y, Babamiri M, Barati M, Rashidi S. [Relationship between happiness and mental health status among high school female students: A descriptive-analytic study]. *J Urmia Nurs Midwifery Fac.* 2017;**14**(11):942-51. Persian.
18. Abassi R, Balochi A, Abassi M. [The role of different school and home factors in student mental health]. *International Symposium on Management Science.* Tehran. 2014. Persian.

19. Aftabsavar D, Hossaini M, Naeimi H, Aboutorabi BS. [Investigating the relationship between management styles and mental health and creativity]. Hormozgan: Academic Center for Education, Culture and Research, Hormozgan Branch; 2015. Persian.
20. World Health Organization; United Nations Children's Fund (UNICEF). *Progress on drinking water, sanitation and hygiene: 2017 update and SDG baselines*. World Health Organization; 2017. 110 p. Available from: <https://apps.who.int/iris/handle/10665/258617>.
21. McCaughtry N, Martin JJ, Fahlman M, Shen B. Urban health educators' perspectives and practices regarding school nutrition education policies. *Health Educ Res*. 2012;**27**(1):69–80. doi: [10.1093/her/cyr101](https://doi.org/10.1093/her/cyr101). [PubMed: [22072137](https://pubmed.ncbi.nlm.nih.gov/22072137/)].
22. Edwards JU, Mauch L, Winkelman MR. Relationship of nutrition and physical activity behaviors and fitness measures to academic performance for sixth graders in a midwest city school district. *J Sch Health*. 2011;**81**(2):65–73. doi: [10.1111/j.1746-1561.2010.00562.x](https://doi.org/10.1111/j.1746-1561.2010.00562.x). [PubMed: [21223273](https://pubmed.ncbi.nlm.nih.gov/21223273/)].
23. Donnelly JW, Eburne N, Kittleson MJ. *Mental health: Dimensions of self-esteem and emotional well-being*. San Francisco: Benjamin-Cummings Publishing Company; 2001.
24. Swapnajaidupally, Kiran V. 2015;**2**(1):393–5.
25. Rijavec M. Should happiness be taught in school? *Croat J Educ*. 2015;**17**. doi: [10.15516/cje.v17i0.1487](https://doi.org/10.15516/cje.v17i0.1487).
26. Lyubomirsky S, King L, Diener E. The benefits of frequent positive affect: Does happiness lead to success? *Psychol Bull*. 2005;**131**(6):803–55. doi: [10.1037/0033-2909.131.6.803](https://doi.org/10.1037/0033-2909.131.6.803). [PubMed: [16351326](https://pubmed.ncbi.nlm.nih.gov/16351326/)].
27. Wolk S. Joy in school. *Educ Leadership*. 2008;**66**(1):8–15.
28. Mwoma T, Begi N, Murungi C. Safety and security in preschools: A challenge in informal settlements. *Issues Educ Res*. 2018;**28**(3):720.
29. Davari A, Rezazadeh A. [Structural equation modeling with PLS software]. Iran: The Academic Center for Education, Culture and Research; 2013. Persian.

Table 3. Factor Load Values and *t* Statistics for Each Item

Pre-Organizing Factor	Base Themes	Indicator	Loading	<i>t</i> Value	Sig.	Decision
Physical health	Individual and general health	IG1	0.809	13.539	0.001	Supported
		IG2	0.881	34.112	0.001	Supported
	Nutrition	N1	0.825	22.599	0.001	Supported
		N2	0.858	29.703	0.001	Supported
		N3	0.748	14.268	0.001	Supported
		N4	0.535	5.341	0.001	Supported
		N5	0.700	13.044	0.001	Supported
		N6	0.459	4.245	0.001	Supported
		N7	0.612	7.975	0.001	Supported
	Physical fitness and physical activity	FA1	0.630	7.151	0.001	Supported
		FA2	0.763	15.920	0.001	Supported
		FA3	0.841	23.660	0.001	Supported
		FA4	0.834	22.091	0.001	Supported
	Mental health	Psychosocial competence	PC1	0.890	34.233	0.001
PC2			0.897	30.894	0.001	Supported
PC3			0.903	38.460	0.001	Supported
Mental health education		MHE1	0.802	10.519	0.001	Supported
		MHE2	0.771	13.192	0.001	Supported
		MHE3	0.684	8.528	0.001	Supported
		MHE4	0.765	15.529	0.001	Supported
		MHE5	0.811	13.933	0.001	Supported
		MHE6	0.776	13.939	0.001	Supported
		MHE7	0.838	20.738	0.001	Supported
		MHE8	0.730	11.535	0.001	Supported
Psychosocial interventions and profession treatment		MHE9	0.793	14.28	0.001	Supported
		PIPT1	0.853	26.662	0.001	Supported
		PIPT2	0.868	32.308	0.001	Supported
	PIPT3	0.803	18.875	0.001	Supported	
Happiness	Environmental	PIPT4	0.625	7.223	0.001	Supported
		EN1	0.776	18.135	0.001	Supported
		EN2	0.809	17.618	0.001	Supported
		EN3	0.506	4.760	0.001	Supported
		EN4	0.796	16.311	0.001	Supported
	EN5	0.875	34.220	0.001	Supported	
	Educational	ED1	0.583	6.325	0.001	Supported
		ED2	0.815	16.049	0.001	Supported
		ED3	0.422	4.607	0.001	Supported
		ED4	0.884	29.934	0.001	Supported
ED5		0.879	28.267	0.001	Supported	

		ED6	0.792	12.915	0.001	Supported
	Emotional	EM1	0.686	10.690	0.001	Supported
		EM2	0.753	12.824	0.001	Supported
		EM3	0.837	15.645	0.001	Supported
		EM4	0.868	33.298	0.001	Supported
		EM5	0.870	27.216	0.001	Supported
		EM6	0.864	24.620	0.001	Supported
Physical safety	Standard and argonium	SA1	0.858	21.410	0.001	Supported
		SA2	0.882	26.813	0.001	Supported
		SA3	0.848	23.145	0.001	Supported
		SA4	0.822	19.485	0.001	Supported
	Training and preparation contrast with natural disasters	TPND1	0.867	22.101	0.001	Supported
		TPND2	0.865	27.274	0.001	Supported
		TPND3	0.904	28.930	0.001	Supported