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Research Paper

Developing a biological model based on the content of the textbooks of the first secondary school and the declaration of the second step of the Islamic revolution of Iran

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Abstract

Background and purpose: One of the axes raised in the statement of the second step of the revolution and one of the most important statements is the improvement of the health and safety of the society, hence the development of biological security can have a great impact on the realization of this axis. Based on this, the present study was carried out with the aim of developing a model for improving the health and biosecurity of society based on the second step of the revolution. Method: The research method in this study is a mixed exploratory study that was carried out with a practical purpose. The statistical population is made up of teachers and professors of the first secondary school and a number of environmental education experts from Hormozgan province. The research method was based on interviews with a semi-structured questionnaire in the field of health and biological security of the society based on the second step of the revolution and was carried out by sampling method to the limit. Theoretical saturation continued. In the quantitative stage, Excel software was used to determine the frequency of responses in each axis, and then the identified codes were prioritized. In the qualitative stage, the thematic method of content analysis was used, and in the quantitative stage. Findings: The results showed that the biological model of promoting the health and safety of society based on the second step of the revolution includes concepts such as environmental health style, environmental balance with an Islamic approach, Islamic environmental ethics, spiritual health based on the environment, and the commitment of producers to create biological health. Environment and lifestyle are Islamic life, and in the field of community security, it also includes

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biopolitical security, justice, prevention of corruption, biological inert defenses, development of a bio-economy centered on tourism, and Islamic nutritional security. In the quantitative part, the results showed that most points were allocated to Islamic lifestyle, environmental health style, bio-political security, Islamic environmental ethics, and biological justice. Conclusion: The results showed that the style of environmental health and biopolitical security can have positive effects in order to improve the health and security of the society based on the second step of the revolution and based on the interaction of the environment with economic, political, and cultural behaviors. , provided the health and safety of the community.

Key words: biological model, health promotion, biological security of society, the second step of the revolution

Introduction

Health promotion patterns are processes related to empowering people to increase control over their health and its determinants by which health is improved or maintained (O'Reilly et al., 2018).

The relationship between strengthening the environment and identifying its implications for maintaining the health and safety of society can provide the epidemic conditions of self-enrichment of health and strengthening of security for society. The study shows that during the occurrence of biological problems such as diseases and epidemics, different environments can help improve the health and safety of society (Tabrizchi, 2022).

From 1863 to 2016, which was the 9th National Conference on Global Health Promotion, the World Health Organization has created and developed global principles and areas of action for health promotion. Recently, the 9th Global Conference (Shanghai 2016), entitled “Health Promotion

in the Sustainable Development Goals: Health for All and All for Health”, highlighted the important links between health promotion and the 2030 Agenda for Sustainable Development. While calling for bold policy interventions to accelerate country action on the Sustainable Development Goals, the Shanghai Declaration provides a framework through which governments can harness the transformative potential of health promotion. Research shows that improving the health of the community itself can improve the quality of life (Latanzi et al., 2020), physical health (Nasri Selahshor et al., 2018), and the use of personal protective equipment during disease outbreaks (Sivi et al., 2022). improve it, but in domestic studies, the biological models based on the statement of the second step of the revolution, which can lead to the improvement of the health of the society, have received less attention, and in the previous research of the Islamic world, the

models of health improvement based on the Islamic biological aspects are limited. In recent years, various researchers have identified various variables such as cultural literacy (Abdi et al., 2019), literacy of peers (Qasmi et al., 2018), limitations of the health organization and medical personnel (Jamshidi and Sadeghi, 2019) as factors related to. They promote the health of the community.

The conducted research suggests the security of the community by improving the health of the community. (Lal et al., 2021) Many researches in the world have investigated the security of the society and the weakness of the security of the society in various researches mainly shows the unfair behavior of the officials of the countries (Buler, 2020; Gachio, 2019;) Islamic Republic of Iran Based on Islamic sciences, it has made sustainable efforts in the field of community security, and in this regard, it has paid attention to the presence of Rish Sefid (Azdi et al., 2018), creating food security (Damari et al., 2018), religious developments (Poyafar, 2022). Creating community security has been taken into consideration.

The main gap between the current state of environmental education in textbooks and the desired state is the insufficient coverage of environmental issues in textbooks. This gap is considered as the problem and subject of this research, and to repair this gap, a model based on the statement of the second step of the revolution has been designed.

Based on this, developing an environmental model for promoting the health and safety of society can prevent the spread and occurrence of harmful biological or pseudo-biological factors that endanger the health and safety of society. The current research was conducted in order to answer the question, what is the biological model of improving the health and safety of society based on the second step of the revolution?

Methodology

This research is based on the interpretive paradigm and qualitative method. Descriptive methods and content analysis of first-year high school textbooks were used to identify and extract the components of sustainable environmental development. The current research was done with the aim of explaining the design and validation of the environmental education model based on the statement of the second step of the revolution and sustainable development from the point of view of environmental experts. The research is practical from the point of view of the present goal and explores the concepts of improving the health and safety of society based on biological patterns. A qualitative method was used to analyze qualitative content, and in-depth interviews with experts and a quantitative method (descriptive survey) was used to collect data from environmental experts. The participants in the qualitative section are experts in environmental issues.

In order to interview the experts in the field of education, the purposeful sampling method (desirable cases) was used. In this regard, the theoretical saturation of the data was achieved by purposefully conducting in-depth interviews with 10 people. These people have valuable information on the subject of the research and have at least 22 years of work experience and have studied at the doctoral level in fields related to the environment (environmental planning and development) and are familiar with the statement of the second step of the revolution of the Supreme Leader) had Using random cluster sampling, the cities of Hormozgan province were considered as clusters And randomly, 10 clusters were selected and from among these clusters, the desired city was randomly selected and questionnaires were distributed among teachers and environmental experts.

In order to collect information from the experts, in the field of the features of the biological model of improving the health and safety of society based on the second step of the revolution, the in-depth interview tool has been used. In the quantitative part, a researcher-made questionnaire of environmental factors effective in improving the health and safety of society based on the second step of the revolution, which was extracted from the findings of the qualitative part, was used. In order to analyze the data in the qualitative part, the open, axial, and selective coding method was used, and for the quantitative part, descriptive and

inferential statistical tests were used.

Interview questions:

1. What are the environmental components effective in improving the health of society based on the second step of the revolution?

2. What are the environmental components affecting the security of the ety based on the second step of the revolution?

reliability of interview:

Reliability refers to the consistency of research findings. Reliability in the interview is discussed in stages such as the interview situation, transcription, and analysis. Also, in the reliability of the interviewee, it is mentioned how the questions are directed. In the reliability of copy-taking, one should also pay attention to the intra-subject reliability of the transcriptions done while typing the texts by two people. During the classification of interviews, paying attention to the percentages reported by two coders is a method to determine reliability. The amount (percentage) of intra-subject agreement between two coders (which should be 60 percent or more) regarding an interview (analysis control) is also a method for the reliability of the analysis. In the current research, retest reliability and intra-subject agreement method were used to calculate the reliability of the conducted interviews. To calculate the retest reliability, several interviews were selected as samples from among the conducted interviews, and each of them was coded twice in a short and specific

time interval. Then the specified codes are compared in two-time intervals for each of the interviews. The retesting method is used to evaluate the stability of the researcher's coding. In each of the interviews, codes that are similar in two-time intervals are marked as "agreement" and non-similar codes are marked as "disagreement". The reliability calculation method between the coding done by the researcher in two-time intervals was as follows:

$$\text{Reliability percentage} = \frac{2(\text{Number of agreements})}{(\text{Number of all codes})} \times 100$$

$$\text{Reliability percentage} = \frac{2(51)}{142} \times 100 = 71.8$$

Calculation of reliability between two coders

In order to calculate the reliability of the interview with the intra-subject agreement method of two coders, one of the professors of educational management familiar

Findings

In the qualitative content analysis of the interviews, which was conducted with the participation of 10 professors (5 men and 5 women), a number of 149 codes were obtained. 1) It is provided:

Table No. 1. The three stages of primary, central, and selective coding

Axial codes	An example of the most important codes	Frequency of respondents	Percent
Political security	Using the community's green space to strengthen the country's political power		
	Using the environmental lever to display human rights in the country		
	Protection of endangered species and political interaction with nature		
	Introduction and use of rare plant and animal species in political assemblies		

with coding was requested to participate in the research as a secondary coder. In the following, the researcher coded the number of three interviews with this research colleague and the percentage of agreement Within the subject, which is used as the reliability index of the analysis, it is calculated using the following formula:

$$\text{Percentage of internal agreement} = \frac{2(\text{Number of agreements})}{(\text{Number of all agreement's})} \times 100$$

In this formula, the number of agreements refers to the number of common and identical codes between the researcher and the co-coder. The total number of codes is the sum of the extracted codes between the researcher and the co-coder. In this way, the reliability of two coders has been obtained according to the following calculations: 75.1

$$\text{Percentage of internal agreement} = \frac{2(56)}{149} \times 100 = 75.1$$

	Use of natural symbols in companies with international trade license	9	90
	Environmental security discussions in political and economic meetings of countries		
	Creating environmental protection negotiations with the countries of the world		
	The government 's focus on creating environmental security in international negotiations		
	Creating a symbol of environmental security in political negotiations		
	Encourage negotiators to use clean biofuels instead of fossil fuels in industry		
	Use and description of environmental interests in political elections by representatives		
	Creating environmental standards in every region of the country		
Environmental health style	Removal of heavy metals from agricultural products	10	100
	Strengthening citizens' awareness of the biological rights of citizens		
	Acquaintance of the public with environmentally friendly life processes		
	Creating a culture of biological health in society		
	People's report on environmental degradation		
	Officials pay attention to environmental risk reports from people		
	The growth of sustainable residential agriculture		
	Use of fuels from agricultural residues		
	Creation of animal food cycle based on agricultural waste		
	Tendency to create commercial green spaces in residential complexes		
Environmental balance with an Islamic approach	Islamic biological ethics	8	80
	Creating environmental balance in Islamic economy		
	Spending a part of Islamic banking income on environmental protection		
	Creating environmental deposit plans in Islamic banks		

	Legislation to monitor the interaction of Islam with the environment in society		
	Islamic lifestyle based on Islamic economist		
Islamic environmental ethics	National unity in observing the environmental principles in the ideological and political centers of the society	9	90
	Environmental Protection Board of Trustees of Local Mosques		
	The duty of mosques to describe environmental ethics in mosques		
	Planting trees as a duty of children who have just reached the duty age		
	Teaching new ways of saving water in mosques to the worshipers		
	Prayer for the health of the environment and the development of pure and divine nature in the world		
	Encouraging worshipers not to use modified fertilizers and harmful substances in agriculture		
	Encouraging waste separation at home		
Environmentally based spiritual health	Description of traditional medicine based on connection with nature	5	50
	The effect of nature on a person's psyche		
	Connecting with nature and improving lifestyle		
	Introduction of Islamic herbal medicines that calm the relationship of couples		
	Explaining the general rights of people in the environment to protect it		
	The world and nature were created for human development		
	Respecting the divine rights of all creatures and nature by believers and humans		
	Emphasis on the role of disturbance in the environment on the spirituality of humans		
	Lack of trust in non-Islamic food for spiritual development		
Commitment of producers to create environmental _ health	Obliging factories to add tree planting and forestry clauses in the surrounding environment	8	80
	Punishment of farmers using harmful fertilizers by forced planting of recommended crops		

	<p>Creating a balance between the disadvantages of factories and planting trees and forests by experts</p> <p>Commitment to reduce carbon dioxide in factories</p> <p>Basic dealing with the violators of the manufacturer</p> <p>Clarification of producers' documents for community monitoring in the field of environmental aid</p>		
biological justice	<p>Establishing Islamic environmental justice</p> <p>Creating a sustainable Islamic environmental style</p> <p>Creating the attractiveness of the natural environment for its stability</p> <p>Ecological balance in the ecosystem</p> <p>Banning hunting B Animal procedure</p> <p>Balanced use of plants, livestock and poultry</p> <p>Creating a culture of fair interaction with nature among tourists</p>	9	90
Preventing biodegradation	<p>Segregation of consumables and non-pollution of the environment by Islamic families</p> <p>Islamic tourism tours to learn about God's power in nature</p> <p>Paying more attention to God's creations in the style of Islamic tourism</p> <p>Teaching to deal with environmental corruption in universities and schools</p> <p>Prevention of organized theft and related corruption</p> <p>Preventing environmental corruption in businesses with such conditions</p>	7	70
	<p>Preventing environmental destruction is a condition of bank loans</p>	4	40
Inactive biological defenses	<p>Preparing for the creation of natural vaccines</p> <p>Preventing the importation of sick animals</p> <p>Prevention Harmful food</p> <p>Preventing the entry of harmful biological products</p>		

	The country's readiness to deal with biological warfare		
	Strengthening the power to neutralize biological attacks on the country		
Development of bioeconomy centered on tourism	Explaining divine justice in the environment to tourists	7	70
	Introducing natural order in the environment to tourists		
	Introduction of Islamic structures in the environment		
	Appreciation of Muslim tourists		
	Attention to the optimal interaction of tourists with nature		
	Creating the tendency to consume halal food among tourists		
	Creating a tendency towards Islamic spirituality in non-Muslim tourists		
	Reducing the cost of traveling to high places for foreign tourists		
Islamic lifestyle	Creating an interaction between security and identity in community life	10	10
	Introducing the role of Islamic ethics for the development of security in society		
	Interaction between technology and Islamic lifestyle		
	Holding Islamic lifestyle training courses		
	Create a happiness program in the community		
	Introducing the benefits of using the Islamic lifestyle against the Western lifestyle in the society		
	TV programs focusing on Islamic lifestyle and environment		
Islamic nutritional security	Acquaintance with the principles of proper nutrition	7	70
	Introduction of Islamic food selection factors		
	Introduction of nutritional styles focusing on strengthening spirituality		
	Nutritional styles with the introduction of mental health		
	Teaching Islamic nutritional styles focusing on memory enhancement		
	Using the point of view of Islamic nutrition experts in television programs		

According to Table 1, the results showed that 12 core codes were identified in this study, which included 92 open codes. In this regard, the following model can be presented (Chart 1):

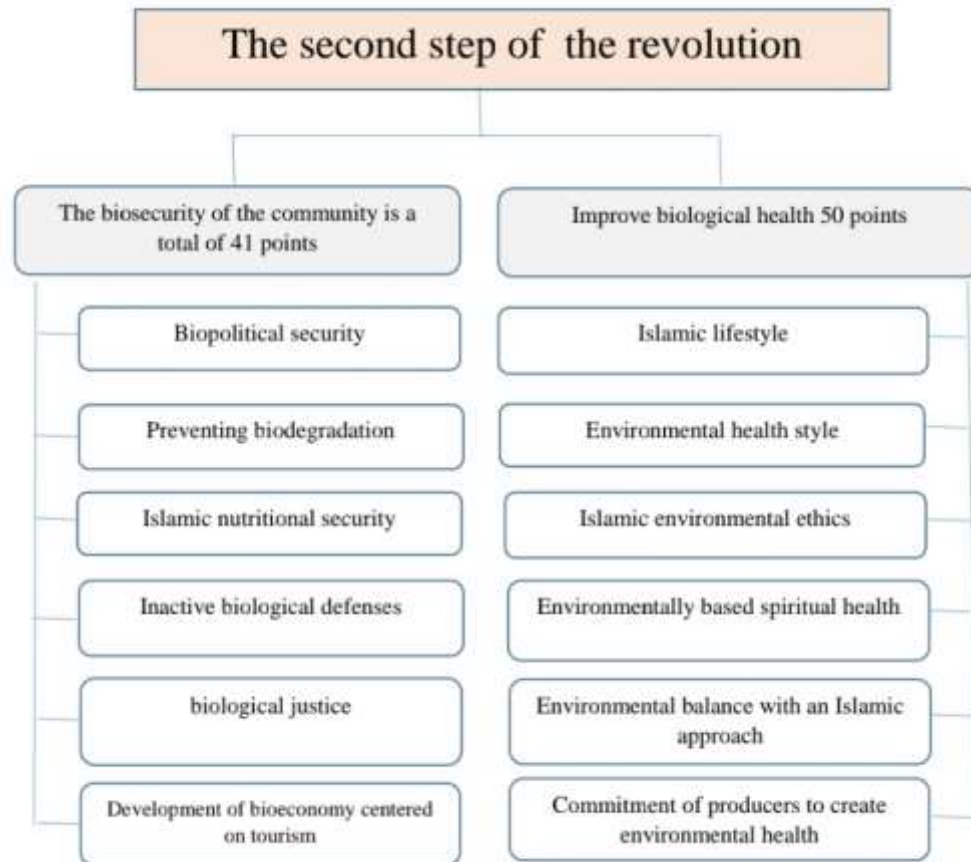


Diagram 1. model of improving the health and biological security of the society based on the second step of the revolution

Discussion and Conclusion

Graph one shows the descriptive statistics of the obtained variables, in this graph, it is stated that environmental health style and Islamic environmental ethics are the most important variables in the field of health promotion based on the biological model, as well as biopolitical security and biological justice. It is introduced as the most important component that can be used in the field of community

security based on the biological model and based on the second step of the revolution. In the meantime, it should be stated that the biological model has more power in promoting health than the biological security of society and it can be more beneficial in this regard.

Improving the health and safety of the society is one of the important axes in the second step of

the revolution, from the statements of the Supreme Leader, the environment and activities and cultural, social, religious, economic, political, family ,and individual interactions play a significant role in its realization as an important factor and It is stable, in line with this realization, the current research was conducted with the aim of developing a biological model for improving the health and safety of the society based on the second step of the revolution. In this study, experts in the field of environment, including professors, workers, and lecturers, who had a semi-structured interview after studying the concepts related to improving the health and safety of the society based on the second step of the revolution, were conducted. The results included that the concepts of improving the health and safety of society are well related to the environment and environmental sustainability strategies, most of which can be considered as Islamic strategies for the environment and people's lifestyle, politics and economy in the society., that this research has achieved these concepts well.

Based on the proposed model, concepts related to the promotion of biological health include environmental health style, environmental balance with an Islamic approach, Islamic environmental ethics, spiritual health based on the environment, the commitment of producers to create environmental health, and an Islamic lifestyle. And the concepts related to the biosecurity of society

include political biosecurity, justice prevention of corruptions biological inert defenses, development of a bio-economy centered on tourism, and Islamic nutritional security. Based on the model obtained from the interview, the bio-security model based on the second step of the revolution can be described as anything that can increase the level of people's security in relation to the environment, which includes social, economic, political, cultural, religious, family and individual security. can be in line with the second step of the revolution and at the same time strengthen the level of security of society and the security of the environment.

For example, bio-political security is the most important axis of strengthening the bio-security of society, which can be expressed by diplomats in international forums to the whole world about the positions of the Islamic Republic of Iran regarding the preservation and importance of its environment.

In order to explain the results of this study, it is necessary to obtain a detailed understanding of the basis of the concepts raised based on interviews with experts and identify the second step of the communication revolution in connection with the statement. The religion of Mobin Islam has paid special attention to the health and safety based on the environment, and based on this, the present study has reached relatively new concepts in this regard, and by implementing a small part of it, the approaches to the development of health and safety in people's lives can be

implemented. And the environment expected.

Environmental health and security can be introduced as a general and new concept in the field of health and social security, and broader concepts can be obtained from the perspective of different communities outside the sample population in the present study.

Suggestions:

- Considering the importance of interactions between religious culture and the environmental issue, in order to improve the health and safety of the society, it is suggested that the concepts of the present research in different fields (religious, economic, banking, political and social) be taken into consideration by the relevant authorities.

- Considering that the style of environmental health was the most important concept identified in this research, it is suggested that the Islamic and biological society pay more attention to the core codes identified in this field.

Considering the power that mosques have in the development of environmental security, it is suggested that religious issues that can strengthen the level of social security based on the constructive interactions of people with the environment, be included in the agenda through Friday prayers and also in religious ceremonies. be placed

Among the proposals that can reduce the burden of environmental destruction in the industrial society, is the requirement to create a green bed in the space around the industrial

factories, which should be emphasized to the manufacturers and industrial founders by the responsible organizations.

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