DEVELOPMENT OF STUDENTS’ VALUE ATTITUDE TO THEIR OWN HEALTH IN THE PROCESS OF PHYSICAL EDUCATION UNDER QUARANTINE

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Authors’ Contribution: A – Study design; B – Data collection; C – Statistical analysis; D – Manuscript Preparation; E – Funds Collection

DOI: 10.17309/jltm.2021.2.01

Abstract

Purpose: identification of the effectiveness of physical education by means of remote technologies for the development of students’ value attitude to their own health in the conditions of quarantine restrictions.

Materials and methods. The study involved 3,726 first-year students of the Lviv Polytechnic National University of all educational-and-scientific institutes. Research methods at theoretical and empirical levels were used to solve the tasks. At the theoretical level, general scientific methods were used (analysis, systematization, generalization). At the empirical level of the study, a questionnaire was used.

Results. According to a one-year ascertaining experiment, 30% of students consider improving and strengthening of their health as a medical problem that is limited to treatment only. Nevertheless, 70% of respondents believe that it is possible to positively affect their health in the following ways: prevention of diseases by means of physical education (21%), promoting a healthy lifestyle (21%), setting up for “healthy” behavior by means of physical education (24%). When asked whether distanced physical education classes contribute to the development of value attitudes towards their health, the vast majority of students (81% of respondents) claimed that in this way they received new information that they consider useful for maintaining and improving their health.

Conclusions. According to the results of the study, it was established that physical education by means of distance technologies contributes to the development of students’ understanding of the need for physical culture, especially in the context of the introduction of quarantine restrictions in higher education institutions. According to the results obtained, the vast majority of students believe that physical education, by means of distance technologies is effective in developing a valued attitude to their own health.

Keywords: physical education, student, health, healthy lifestyle, distance technology, quarantine.

Introduction

Reforming higher education, the positions of which are reflected in the normative and legal documentation (National Report on the State and Prospects of Education in Ukraine (2016), which is the basis of its development in Ukraine, requires radical changes in all levels of the educational process of higher education and the need for its harmonization with world standards in the context of current trends in the development of the industry (Koryahin, Blavt, Vanivska, & Stadnyk, 2020). The current conditions of globalization and Ukraine’s orientation towards the European Community determine the need to solve one of the important tasks of the state policy in the field of education – ensuring the formation of a healthy personality (Ivashchenko, Muszkieta, & Potop, 2020).

In the higher education system, the task of health preservation is entrusted to the discipline "Physical Education", as is stated in the national doctrine of education development. Strengthening and maintaining good health is a priority of the main legislative acts and regulations on physical culture (Kashuba, Futorny, & Andreyeva, 2012). Thus, in the concept of physical education, in the target comprehensive program "Physical Education – Health of the Nation", the Law of Ukraine "On Physical Culture and Sports" states that physical culture and sports, which are part of the general culture, contribute to the training of students, increasing their mental and physical performance (Zelenskyi, & Zelenskyi, 2018).

Due to changes in the model of functioning in society, caused by the quarantine restrictions and the benefits of sedentary lifestyle, full of stressful situations and bad habits, the problem of students’ health becomes global (Gallo, Gallo, Young, Moritz, & Akison, 2020).

The only possible answer to the challenges of today’s negative tendencies is an immediate solution to the problem situation. The above involves the search for new approaches and methods of interaction with students, forms, methods and
Means of physical education to enable their health preservation and preventing the phenomena of social maladaptation while the quarantine restrictions are applied.

The issue of developing the students’ value attitude to the own health is highlighted in this research (Altavilla, 2016; Biktagirova, & Kasimova, 2016; Kensytska, 2017). The problem is quite timely, since there are negative trends indicating a decrease in the level of health of students in Ukraine (Bergier, Tsos, & Bergier, 2014; Martyniv, 2013). Researchers point (Deasy, Coughlan, Pironom, Jourdan, & Mcnamara, 2014; Jiménez-Pavón, Carbonell-Baeza, & Lavie, 2020) to the fact that quarantine restrictions mean that students have always been in a state of stress in recent years, as mental activity is associated with emotional stress.

At the same time, health care is one of the most difficult problems of physical education in the conditions of distance learning (Bezgrebelna, Pavlos, Bulatov, & Nezgoda, 2020), which needs to be addressed and solved. In this context, the issue of the content of physical education and the development of its forms, as a mechanism for solving current problems, given the situation related to the distance learning in higher education institutions, is increasingly becoming the subject of scientific attention.

However, despite the interest of scientists in the development of students’ value attitude to their own health (Nosov, 2014; Palichuk, 2014; Sigmundová, Chmellík, Sigmund, Feltlová, & Frömel, 2013), this problem remains insufficiently studied at the theoretical and practical levels in the context of distance education. Taking into account the fact that the development of value attitude to one’s own health is an urgent requirement of today, and distance education in the country reflects the objective reality, there is a need to study and understand the results of the influence of physical education by distance learning technologies on the development of students’ value attitude to their own health.

The purpose of the study was to identify the effectiveness of physical education by means of distance technologies for the development of students’ value attitudes towards their own health in the conditions of quarantine restrictions.

Materials and methods

Research methods at theoretical and empirical levels were used to solve the tasks. In particular, general scientific methods (analysis, systematization, generalization) were used to study the state of the researched problem according to the information of literature sources; sociological (written survey) – in order to identify problems in the research area, to obtain data on the impact of the discipline “Physical Education” by means of distance technologies on students’ understanding of the problems of health preservation; about the peculiarities of motivating students to physical activity, priorities about its types; development of value attitude towards one’s own health under quarantine restrictions; the interview was used as an additional method of obtaining the necessary information or explanations to clarify the actual material received during the survey; methods of mathematical statistics – at the stage of data processing for the presentation of the results of pedagogical research, which allowed to carry out quantitative and qualitative analysis of a set of empirical indicators.

At the theoretical level, in particular, the method of analysis and synthesis is used to consider the research issues at the intersection of physical education, education and interdisciplinary research to use data for analyzing the relationships between pedagogical practices and learning outcomes.

The written survey in the form of a questionnaire took place in the indirect interaction of the respondents. The respondents were students. The expediency of using a written survey is justified by the need to obtain actual data, to determine the attitude of the respondents to a certain problem and to evaluate the studied phenomena. The questionnaire was built on a simplified program, with a small amount of tools.

Study participants

The study involved 3,726 first-year students of the Lviv Polytechnic National University of all educational-and-scientific institutes.

Study organization

The organization of the study provided that an important condition for ensuring the effectiveness of physical education by means of distance technologies in order to make informed management decisions to ensure the development of students’ value attitude to their own health under quarantine restrictions is the availability of prompt and reliable information on the current results.

The organization, conduct and evaluation of the survey was carried out to timely identify and eliminate negative factors and to develop measures to increase the effectiveness of the development of students’ value attitude to their own health under quarantine restrictions. In view of this, monitoring provides timely and high-quality data on the results obtained.

Therefore, the survey was carried out using a questionnaire. The expediency of its use is justified by the fact that the advantage of this method is the possibility of obtaining the characteristics of the phenomenon under study. The latter, in turn, are the basis for identifying causal relationships. In addition, the questionnaire allows involving a large number of students in the study, which makes it possible to minimize atypical manifestations. At the same time, it was no personal contact with the respondents.

An email questionnaire was used in the study. The questionnaire is a set of questions, each of which is logically related to the central task of the study. The respondents filled in the questionnaire independently. Compiling the questionnaire involved the transfer of the main hypotheses of the study to the language of questions. Herewith, we tried to make the questionnaire as clear and easy to fill as possible. The questions were specially selected, carefully thought out in advance and pre-tested on a small group of test subjects (5–20 people). The time to complete the questionnaire was within 45±10 minutes.

Statistical analysis

Methods of mathematical statistics were used to analyze the sets of empirical data obtained. Statistical processing of the data was carried out on a computer using the standard STATISTICA 7.0 programs.
Results

First, let us clarify that among the determinants who determine the state of health of students under the quarantine restrictions and the transition of higher education institutions to the distance education, the lifestyle is primarily distinguished (Jiménez-Pavón, Carbonell-Baeza, & Lavie, 2020). Nevertheless, we fancy the idea (Tucker, & Irwin, 2011), that the state of health also depends on whether one’s own health is of value for oneself.

Modern scientific research convincingly proves that human health is of individual value (Altavilla, 2016; Ivanova, 2020; Kumar, & Freetha, 2012). Numerous empirical studies have shown that physical culture and a healthy lifestyle can minimize and sometimes eliminate the risk of bad state of health or illness (Haase, Steptoe, Sallis, & Wardle, 2004; Kolb, & Kolb, 2005; Wigger, 2010).

It is worth noting that in the process of determining the concept of “health”, researchers distinguish such components as physical, psychological, behavioral health (Australian Curriculum, Assessment and Reporting Authority, 2012). Emphasizing the special importance of motivation to maintain health and psychological-and-pedagogical conditions necessary to ensure the effectiveness of a healthy lifestyle of students and the development of value attitudes of their own health (Bray, & Born, 2004; Höner, & Demetriou, 2014).

In our study, we positioned physical education by means of distance technologies as a tool for developing students’ value attitudes toward their own health. This implied that it is a pedagogical process aimed at eliminating the existing negative tendencies in their physical development and health by means of physical education on the body systems by stimulating this activity, taking into account the specifics of the situation caused by the pandemic.

The introduction in the educational process of the need for the development of value attitude to one’s own health required the modeling of an effective educational environment to create a stereotype of health-preservation, and given the unity of physical and neuropsychological development – an improvement of the relevant indicators. Therefore, this implied a combined effect during physical education classes on the cognitive and motor areas of students.

Thus, according to the one-year ascertaining experiment, the following was established. 30% of respondents consider improvement and strengthening of health as a medical problem, which boils down only to the treatment of diseases (Fig. 1). Instead, 70% of respondents believe that it is possible to influence positively the health of students in the following ways: prevention of diseases by means of physical education (21%), promotion of a healthy lifestyle (21%), setting up for “healthy” behavior by means of physical education (24%).

However, not all students, according to the survey results, are sufficiently informed about a healthy lifestyle, and some of them deliberately neglect it. Instead, the vast majority of them believe that leading a healthy lifestyle is important for everyone and especially now for students, because it is students who are on distance learning for a long time.

It is believed that physical education classes contributed to obtaining knowledge about a healthy lifestyle, namely, 72.4% of respondents understood that person’s health not only includes the physical, mental and social existence of a person, but also takes into account his beliefs, expectations and worldview (Fig. 2). At the same time, 27.6% of students associate a healthy lifestyle with health that is based on subjective and objective assessment of his physical and social activity. Thus, most students do not have sufficient knowledge about the benefits of motor activity for the human body. Lack of interest in regular physical education classes leads to a decrease in the health and physical condition of young people.

![Fig. 1. Place of the concept of “health” as one of the important components in the system of values of students](image1)

![Fig. 2. The state of students’ awareness about a healthy lifestyle](image2)
As a result of the survey, we concluded that students try to follow a healthy lifestyle and we identified the main factors for ensuring it. As a result, 77% of respondents try to adhere to a healthy lifestyle from time to time, only 12% of respondents always adhere and 11% of respondents do not care about health problems at all.

68.7% of respondents noted an increase in the level of motor activity in their free time based on the knowledge gained in physical education classes, 9.2% of students showed no changes in lifestyle, 82.1% of respondents showed a decrease in the level of daily motor activity due to the quarantine restrictions. Nonetheless, 72.3% of the students surveyed are ready for the personal health-preservation. The latter was considered as an integrated concept of education and development of value attitude to one’s own health, motivation for health-preservation and an adequate understanding of one’s own state of health.

Priority motives for physical education as a factor in the development of value attitude for one’s own health were identified. In the first place, there is a motive “Maintaining and improving body shape” (45.7%). According to the frequency of selected answers, the second place is the motive “Preserve one’s health” (36%). On the third place was the motive “Development of one’s physical condition” (12.7%). The least priority motive for exercise is “Reduction of excess body weight”, it was chosen by only 5.2%. Therefore, it was found that for the vast majority of students the latter factor is not significant.

Discussion

Our research is based on the fact that caring attitude to one’s own health is a very important issue in modern society, because health is considered a social value (Palichuk, 2014). Among the main tasks of higher educational institutions are solving the problem of supporting and strengthening the health of students, creating a health atmosphere in the system of their education (Kashuba, Futorny, Andreyeva, 2012; Sukys, Majauskiene, & Dumciene, 2017). In scientific sources, the issue of supporting and improving the health of future professionals as the main driver of progress in all spheres of society and the state today is positioned by the scientists as a one of the most pressing (Bergier, Tsos, & Bergier, 2014; Biktagirova, & Kasimova, 2016).

The study expands the scientific data that an important factor in the formation of a culture of students’ health during studying in higher education institutions is the system of physical education (Buultjens, & Robinson, 2011; César, Zaia, Trevisan, Garzon, Laganà, & Montagna, 2020). According to the latest trends (Kensytska, 2017), higher education institutions require “the development of a new model of motivating student youth to a healthy lifestyle, physical culture and sports, in accordance with the realities of modern Ukrainian society.” Research in this area has been constantly carried out in the field of physical education. However, the realities of today require effective action on this. Therefore, we agree that focusing on the health-preservation of students in distance education is a complex and multifaceted process (Bezgrebelna, Pavlos, Bulatov, & Nezgoda, 2020). This is especially true on the most vulnerable segment of the population – students, whose health problem today, more than ever, is relevant, and the way to solve it is extremely necessary to consider first of all in the educational sphere. Undoubtedly, the formation of readiness of students for health-preserving activity is considered as one of the results of physical education in the system of higher education (Ivashchenko, & Khudolii, 2011; Palichuk, 2014).

Scientific studies convincingly prove that during the 2019/2020 academic year there was a decrease in physical activity of students. In 2020, the situation became more complicated due to the implementation of quarantine measures caused by the significant spread of acute respiratory disease COVID-19. We support the idea that such a situation requires radical changes and modernization of approaches to the implementation of physical education in order to en-
The authors state no conflict of interest.

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Авторський вклад: A – дизайн дослідження; B – збір даних; C – статаналіз; D – підготовка рукопису; E – збір коштів

Реферат. Статья: 7 с., 3 рис., 33 джерела.

Мета дослідження – виявлення ефективності фізичного виховання засобами дистанційних технологій на розвиток у студентів ціннісного ставлення до власного здоров'я в умовах карантинних обмежень.

Матеріали і методи. У дослідженні взяли участь 3726 студентів першого курсу Національного університету «Львівська політехніка» всіх навчально-наукових інститутів. Для вирішення поставлених завдань використовували методи дослідження на теоретичному та емпіричному рівнях. На теоретичному рівні було використано загальнонаукові методи (аналіз, систематизація, узагальнення). На емпіричному рівні дослідження використовували анкету.

Результати. За даними однорічного констатувального експерименту встановлено, що 30% студентів розглядають покращення і зміцнення свого здоров'я як медичну проблему, яка зводиться лише до лікування. Натомість, 70% опитаних вважають, що можна позитивно вплинути на стан свого здоров'я такими способами: профілактикою захворювань засобами фізичного виховання (21%), пропагандою здорового способу життя (21%), налаштування на «здорову» поведінку засобами фізичного виховання (24%). На питання анкети, чи заняття з фізичного виховання у дистанційному форматі сприяють розвитку ціннісного ставлення до своєго здоров'я переважна більшість студентів (81% опитаних) стверджувала, що таким шляхом вони отримали нову для себе інформацію, яку вважають корисною для збереження та покращання свого стану здоров'я.

Висновки. За результатами здійсненого дослідження, установлено, що фізичне виховання засобами дистанційних технологій сприяє розвитку розуміння у студентів необхідності занять фізичною культурою, особливо в умовах упровадження карантинних обмежень у закладах вищої освіти. За результатами дослідження, переважна більшість студентів вважає фізичне виховання засобами дистанційних технологій ефективним у розвитку ціннісного ставлення до власного здоров'я.

Ключові слова: фізичне виховання, студент, здоров'я, здоровий спосіб життя, дистанційні технології, карантин.

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Cite this article as: Koryahin, V., & Blavt, O. (2021). Development of Students' Value Attitude to Their Own Health in the Process of Physical Education Under Quarantine. Journal of Learning Theory and Methodology, 2(1), 53-59. https://doi.org/10.17309/jltm.2021.2.01

Received: 25.03.2021. Accepted: 05.05.2021. Published: 30.06.2021

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