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THE EFFECT OF PHYSICAL TABIA AND REGULAR EXERCISE ON THE VOLUME OF THE HEART AND ARTERIAL BLOOD PRESSURE

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Annotation. Due to the numerous studies on the relationship between a healthy lifestyle and the social relationships of young people, these issues have not yet lost their relevance.

Keywords: motivation, value orientation, youth, students, health, healthy lifestyle, physical culture.

Аннотация. Благодаря многочисленным исследованиям, посвященным взаимосвязи между здоровым образом жизни и социальными взаимоотношениями молодежи, эти вопросы до сих пор не утратили своей актуальности.

Ключевые слова: мотивация, ценностные ориентации, молодежь, студенчество, здоровье, здоровый образ жизни, физическая культура.

Currently, the emphasis on children's sports is increasing day by day. It is extremely important for children and adolescents in growth and development to grow up healthy and mature. The decree of the president of the Republic of Uzbekistan and the Cabinet of ministers aimed at the development of children's sports and decisions are the foundation for the perfection of the growing young organism.

It is known that the organism of children and adolescents has the characteristics of heterochronous (uneven) development according to the laws of growth and development. Accordingly, playing sports can have different effects on their organism during this period. This can also negatively affect growth and development in some cases. Of course, a number of reasons can also be the basis for this (not taking into account the individual characteristics of age, giving loads beyond the norm, improperly organized training and hakozas).

It is known that the cardiovascular system is a mutational system for supplying the body with blood. Timely supply of oxygen and nutrients depends on the circulation of the blood. In this regard, it is of important practical importance to study the effect of regular sports activities on the cardiovascular system. According to the results of the studies carried out and scientific sources, regular exercise helps to accelerate the formation of the adolescent heart, thereby reducing the period of lagging behind its physical development. This prevents developmental dysgormonia of the organism (R.A. Kalyuzhnaya, 1975, T.T.Krisco, 1976). I.A. According to Arshavsky (1970), with the level of skeletal muscle load, the morphological and functional capabilities of the circulatory organs are directly interconnected – including the size, weight and function of the heart.

According to a number of authors, in athletes of all age groups, the size of the heart is greater than in those who are not engaged. The main cause was hypertrophy of the heart

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of children and adolescents as a result of the engagement. The size of the heart size in children depends not only on age, but also on gender and the degree of physical development and puberty. Boys who do not play sports have a larger heart size compared to girls in all age groups (except those aged 13-14). The large size of the heart compared to boys in girls of the same age is explained by the fact that biological maturation begins before. Sport adds only its correctness in the process. In general, boys of all age groups who play sports have a larger heart size compared to girls. This is also confirmed by the studies conducted. As a result of playing sports, children and adolescents have a much lower heart rate than those who are not engaged. This is evidenced by the size of the heart and the magnitude of the contraction force in them. Until now, there is no uniform opinion about the effect of Sports on the level of arterial blood pressure. A number of researchers (Motilyanskaya R.E., 1970 and others) other researchers (Kovanov K.V., 1972) insist that no such case has been observed. It should also be noted that as the age grows, systolic and pulse pressures increase, increasing to a lesser extent in the case of diastolic pressure. In addition to the main factors, the degree of Arterial pressure is influenced by other factors, the calculation of which is a complex issue.

The level of Arterial pressure also depends on the living conditions, climatic and geographical features of the place of residence and the physical development of children and adolescents (Kalyuzhnaya R.A., 1977). N.S. According to Konchitsani (1977) in young athletes, with increasing age (10-18 years), the maximum and minimum levels of arterial pressure increase. In each age group, arterial pressure is of a physiological norm and does not differ from the arterial blood pressure of healthy peers who do not play sports. However, in young athletes, when the maximum arterial blood pressure increases with age, in children who do not play sports, the minimum arterial blood pressure increases. This leads to a clear increase in pulse pressure in young athletes compared to the pulse pressure of their non-engaged peers.

In young athletes, arterial blood pressure has an even age-specific dynamics. In non-engaged peers, however, arterial blood pressure during the intensive period of neuroendocrine remodeling (ages 13-15) does not have the same age-specific dynamics. In addition, during this period, the minimum arterial blood pressure in young athletes decreases, while in those who are not engaged, this indicator increases. This suggests that the sport had a positive effect on neuroendocrine remodeling during puberty.

The above data and the studies carried out indicate that sports have a positive effect on the size of the heart of children and adolescents and on the age-specific dynamics of arterial blood pressure. When children and adolescents play sports, the burden given to them is appropriate for age and given taking into account individual characteristics, it helps them grow up to adulthood, becoming comprehensively competent, positively affecting their growth and development.

Literature used

1. Ziyayev, Abdurakhmon. "SPORTS TOURISM AS A MODULE OF ELECTIVE COURSES OF PHYSICAL EDUCATION AND SPORTS SCIENCES IN HIGHER

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Xalqaro ilmiy-amaliy konferensiya

15 мая 2024 г.//May 15, 2024//2024-yil 15-may sciencetechnology.uz

EDUCATION INSTITUTIONS." Namangan davlat universiteti Ilmiy axborotnomasi 6 (2023): 707-712.

- 2. Abdullaevich, Ziyaev Abdurakhmon. "Development of General Physical Qualities of Girls Football Players in Higher Education Institution." *European Journal of Economics, Finance and Business Development* 1.9 (2023): 1-6.
- 3. Abdullayevich, Ziyayev Abduraxmon. "THE EFFECTIVENESS AND METHODS OF DEVELOPING THE TECHNIQUE OF PLAYING YOUNG BASKETBALL PLAYERS THROUGH SPECIAL EXERCISES." ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW ISSN: 2319-2836 Impact Factor: 7.603 11.12 (2022): 123-125.
- 4. Abdullaevich, Ziyaev Abdurakhmon. "Development of Endurance Qualities of Young Football Players with The Help of Types of Athletics Running." *European Journal of Economics, Finance and Business Development* 1.9 (2023): 7-12.
- 5. Abdullayevich, Ziyayev Abdurahmon. "Improving the quality of power in young sambo wrestlers in the process of dealing with sambo wrestling." *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN:* 2277-3630 Impact factor: 7.429 11.09 (2022): 231-233.
- 6. Abdullayevich, Ziyayev Abdurakhmon. "Complex supervision of physical and technical-tactical preparation of disabled football players." *ОБРАЗОВАНИЕ НАУКА И ИННОВАТЅІОННЫЕ ИДЕИ В МИРЕ* 18.3 (2023): 64-67.
- 7. Toxirjonovich, Arabboyev Qaxramon, et al. "THE ROLE OF SPORT IN PEOPLE'S HEALTH." *International Journal of Early Childhood Special Education* 14.7 (2022).
- 8. Nazirjonovich, Khatamov Zafarjon, and Akhmedov Muhammadjon. "DEVELOPMENT OF TECHNICAL AND TACTICAL SKILLS OF HIGHLY QUALIFIED BOXERS BASED ON AN INNOVATION CLUSTER." Лучшие интеллектуальные исследования 11.2 (2023): 76-85.
- 9. Khatamov, Zafarjon. "METHODOLOGICAL JUSTIFICATION OF THE MAIN DIRECTIONS OF IMPROVING PHYSICAL EDUCATION OF HIGHER EDUCATION STUDENTS." Namangan davlat universiteti Ilmiy axborotnomasi 6 (2023): 811-818.
- 10. Nazirjonovich, Khatamov Zafarjon. "Formation of Psychological and Pedagogical Problems Through Sports Motivation." *European Journal of Economics, Finance and Business Development* 1.9 (2023): 31-39.
- 11. Nazirjonovich, Khatamov Zafarjon. "Pedagogical Methods and Conditions for the Innovative Formation of Motivation of Young Handball Players." *European Journal of Economics, Finance and Business Development* 1.9 (2023): 13-22.
- 12. Nazirjonovich, Khatamov Zafarjon. "Pedagogical Aspects of Forming Sports

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15 мая 2024 г.//May 15, 2024//2024-yil 15-may sciencetechnology.uz

- Motivation." European Journal of Economics, Finance and Business Development 1.9 (2023): 23-30.
- 13. Nazirjonovich, Khatamov Zafarjon, Boltaboev Hamidullo Khabibulloevich, and Akhmedov Mukhammadjon. "MEANS OF PHYSICAL CULTURE THAT ENSURE THE STABILITY OF HUMAN PHYSICAL PERFORMANCE." *Ta'lim innovatsiyasi va integratsiyasi* 10.3 (2023): 136
- 14. Хатамов, Зафарджон Назирджонович, Хамидулло Хабибуллоевич Болтабоев, and Мухаммаджон Ахмедов. "ВАЖНОСТЬ АКРОБАТИЧЕСКИХ УПРАЖНЕНИЙ ПРИ ПОДГОТОВКЕ ФУТБОЛИСТОВ ШКОЛЬНОГО ВОЗРАСТА." *Ta'lim innovatsiyasi va integratsiyasi* 10.3 (2023): 142-148.
- 15. Хатамов, Зафарджон Назирджонович, Хамидулло Хабибуллоевич Болтабоев, and Мухаммаджон Ахмедов. "ПОВЫШЕНИЕ УДЕЛЬНОЙ СКОРОСТИ ЗДОРОВОГО ОБРАЗА ЖИЗНИ СТУДЕНТОВ С ИСПОЛЬЗОВАНИЕМ ИННОВАТЅІОННЫХ ТЕХНОЛОГИЙ И ДЕЯТЕЛЬНЫХ ИГР." *Ta'lim innovatsiyasi va integratsiyasi* 10.3 (2023): 130-135.
- 16. Nazirjonovich, Khatamov Zafarjon. "Theoretical foundations of training volleyball players sports techniques of volleyball in youth shoes." *Open Access Repository* 9.9 (2023): 125-129.
- 17. Nazirjonovich, Xatamov Zafarjon, and Inomov Faxriddin o'rmonjonovich. "Physical Education In Higher Educational Institutions Problems Of Formation Of Professional Skills On The Basis Of Science And Practice Ytegration In The Training Of Teaching Staff." *Journal of Positive School Psychology* (2023): 870-876.
- 18. Akramovich, Alikulov Akmal, and Yakubjonova Feruzakhon Ismoilovna. "Xatamov Zafar Nazirjonovich."." *Technologies for developing of future physical education teachers through media education tools." ACADEMICIA: AN INTERNATIONAL MULTIDISCIPLINARY RESEARCH JOURNAL* 11 (2021): 885-890.
- 19. Nazirjonovich, Khatamov Zafarjon. "Improving endurance from physical qualities in student youth." *Open Access Repository* 9.9 (2023): 115-118.
- 20. Nazirjonovich, Khatamov Zafarjon. "The role of modern pedagogical technologies in the development of the science of pedagogy." *Open Access Repository* 9.9 (2023): 103-108.
- 21. Nazirjonovich, Khatamov Zafarjon. "Concept of resilience, types of resilience, indicators and methods of its development." *Open Access Repository* 9.9 (2023): 119-124.
- 22. Nazirjonovich, Xatamov Zafarjon, and Inomov Faxriddin o'rmonjonovich. "Physical Education In Higher Educational Institutions Problems Of Formation Of Professional Skills On The Basis Of Science And Practice Ytegration In The Training Of Teaching

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Xalqaro ilmiy-amaliy konferensiya

15 мая 2024 г.//May 15, 2024//2024-yil 15-may sciencetechnology.uz

Staff." Journal of Positive School Psychology (2023): 870-876.

- 23. Nazirjonovich, Khatamov Zafarjon. "The importance of physical education in the formation of a student's personality." *Galaxy International Interdisciplinary Research Journal* 11.4 (2023): 262
- 24. Nazirjonovich, Khatamov Zafarjon, and Tolanbayev Farrukh. "Working with scales and exercises." *Conferencea* (2023): 113
- 25. Nazirjonovich, Xatamov Zafarjon, and Inomov Faxriddin o'rmonjonovich. "Physical Education In Higher Educational Institutions Problems Of Formation Of Professional Skills On The Basis Of Science And Practice Ytegration In The Training Of Teaching Staff." *Journal of Positive School Psychology* (2023): 870-876.
- 26. Nazirjonovich, Khatamov Zafarjon, and Akhmedova Nargiza Alidjanovna. "Importance of travelling and tourism at the formation of healthy lifestyle of the pupils of beginning classes." *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429* 11.11 (2022): 81-86.
- 27. Akramovich, Talipdjanov Alidzhan, and Khatamov Zafarjon Nazirjonovich. "Improvement physical education in of the of higher system education." OEPA3OBAHUE НАУКА ИННОВАТSІОННЫЕ И ИДЕИ В *МИРЕ* 18.1 (2023): 10-14.
- 28. Nazirjonovich, Khatamov Zafarjon, and Akhmedova Nargiza Alidjanovna. "Social pedagogical function spiritual development and of sport in of youth." INTERNATIONAL *JOURNAL* OF *SOCIAL SCIENCE* & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429 11.11 (2022): 255-260.
- 29. Nazirjonovich, Khatamov Zafarjon, and Muidinov Ikboljon Abdukhamidovich. "The effect of physical exercises on the mental abilities of students." *ОБРАЗОВАНИЕ НАУКА И ИННОВАТЅІОННЫЕ ИДЕИ В МИРЕ* 18.1 (2023): 15-19.
- 30. Nazirzhonovich, Khatamov Zafarjon, and Akhmedova Nargiza Alidzhanovna. "The importance of travel and tourism in the formation of a healthy lifestyle danang primary school students." *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429* 11.11 (2022): 75-80.
- 31. Nazirjonovich, Xatamov Zafarjon, and Inomov Faxriddin o'rmonjonovich. "Physical Education In Higher Educational Institutions Problems Of Formation Of Professional Skills On The Basis Of Science And Practice Ytegration In The Training Of Teaching Staff." *Journal of Positive School Psychology* (2023): 870-876.
- 32. Nazirjonovich, Khatamov Zafarjon, and Tolanbayev Farrukh. "Methodological

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foundations of the management of physical culture and sports activities of students in order to prepare for professional activity." Proceedings of International Conference on Educational Discoveries and Humanities.

- 33. Khatamov, Zafarjon Nazirjonovich. "Special physical of students of higher education preparation." Educational Research in Universal Sciences 1.3 (2022): 151-157.
- 34.SH, Yuldasheva FU Imamova AO Khobiljonova. "The role of sports in the formation of a healthy lifestyle among young people." (2022).
- 35. Akramovich, Alikulov Akmal, and Xatamov Zafar Nazirjonovich. "Technologies for developing of future physical education teachers through media education tools." Academicia: an international multidisciplinary research journal 11.2 (2021): 885-
- 36. Хатамов, Зафаржон Назиржонович. "Педагогические условия формирования спортивной мотиваtsiu." INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE" THE TIME OF SCIENTIFIC PROGRESS". Vol. 1. No. 2. 2022.
- 37. Nazirjonovich, Khatamov Zafarjon. "The use of modern educational technologies in the organization of physical education is a guarantee to increase the effectiveness of education." ACADEMICIA: AnInternational *Multidisciplinary* Research Journal 11.10 (2021): 477-480.