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PSYCHOHYGIENIC ASPECTS OF TRAINING OF DISABLED ADOLESCENTS WITH PATHOLOGY OF THE VISION (literature review)

Abstract. *The objective of this article is to summarize information about some psycho-hygienic aspects of teaching the blind and visually impaired adolescents, including features of communication, learning environment, psycho-emotional stress in specialized educational institutions, as well as individual psychological characteristics of personality, emotional and volitional state of visually impaired.*

Key words: *psychohygiene, the blind and visually impaired, psychoprophylaxis, education, visual disturbances, prenosological state.*

One of the most urgent problems of today is the health of children and adolescents as well as reducing the number of healthy children. Increasing the proportion of children with chronic diseases and people with disabilities greatly reduces the potential for development of the country. In the last decade throughout the world, including Ukraine, a lot of attention is paid to the occurrence of child disability. The growth of the total number of children with disabilities and a high level of primary disability of the child population, define the necessity of the state level measures for the correction of social policy for children with disabilities, the basic directions of that should be the prevention of disability, medical and pedagogical rehabilitation of children with disabilities, social adaptation, conducting primary preventive measures aimed at improving the stability of mental health, resilience of the psyche of children - disabled to the influence of various environmental factors that would entail the prevention of severe secondary somatic and neuropsychiatric consequences already at the initial stage of their manifestations without severe socially significant violations.

Throughout last few years were adopted and actively implemented national programs to preserve and improve the health of the most vulnerable groups, namely children and adolescents with disabilities, namely "Children of Ukraine" (1996), the Concept of Health Development of Ukraine (2000), the Interdepartmental complex program "Health of the nation" (2002-2011), and currently developed nationwide program "Health 2020: Ukrainian dimension".

According to the World Health Organization

(WHO) today there are 40 million blind people in the world, 1.5 million of them - are children. As for Ukraine, 40 thousand people are suffering from true blindness, visually impaired people are five times more [19]. And every year this number is increasing.

It is known that one of the most common causes of disability is blindness. Today, a variety of visual disturbances are extremely common worldwide. In recent years there has been tendency to growth of severe and disabling diseases that lead to loss of vision. Apart the causes, heredity, injury, complications at birth, infectious diseases, and common to all human diseases - environmental degradation, canned excess, etc. Important role played the tendency of civilization progress: the dominant role of vision, as a means of receiving and processing information. Each year, the flow of information increases, the visual system adapts to such loads much slower.

According to the current classification blind persons whose visual acuity is in the range from 0% to 0,04%. Thus, contingent includes people fully devoid of vision (totally blind) and with residual vision (visual acuity from light perception to 0,04%). Children with visual acuity from 0,05% to 0,2% are in the category of visually impaired, and may have to work with the help of sight under certain hygienic requirements [4].

One of the priorities of the existence and development of the prosperous state is to take care about getting all the representatives of the younger generation high-quality and high-grade education, as stipulated in the Law of Ukraine "Higher Education", which is associated with the creation the necessary conditions for quality

education of persons with disabilities including the blind and visually impaired. Totally blind children use touch and hearing to obtain educational information. Blind children with residual vision also obtain core training information through the sense of touch and hearing because if there is such a profound defeat of vision use for a long time entails a negative impact on its further development. However, in the process of training and education residual vision is not ignored because it gives children more information about the environment. For a student with a visual disturbance is important even before the start of classes to learn the movement and orientation in classrooms. It is necessary to maintain a constant placement of furniture and equipment in the classroom, and inform the visually impaired student about any changes in the room. Foreign methodologists prefer horseshoe seating arrangement of students when the teacher is in an open part of the "horseshoe" for easy access of all trainees to teacher. It is necessary to allow the student to sit where he is better sees the board, but not separately from other students. In the room is necessary to provide modifiable lighting conditions; because students may have different visual impairment, requirements to lighting are different for each student, in particular, require adjustable lighting in different parts of the class, to create different lighting conditions to meet the individual needs of students; local illumination, where it necessary; natural lighting and blinds to limit natural light and glare if it necessary. The classroom should be with perfect acoustics, because the sound is very important for a blind student. It is also necessary to minimize the extraneous sounds. Special coating of the walls and floor soften the sound and improve the learning environment, and conversely uncovered floor can create an echo and distort intonation [6, 18].

Visually impaired and disabled - is a special case, since 80% of the information people receive through the visual analyzer [5]. With a sharp decrease of vision, it interferes with the normal ability to self-care, movement in space, and also severely limits the possibility of learning and social interaction.

For a clearer perception of the problems of children with disabilities should be highlighted two groups of factors: the objective, depending on surrounding reality and subjective, depending

directly on the person, that can lead to mental health problems.

The objective factors include: a negative public perception of the disabled; low levels of social support, protection and assistance to persons with disabilities; not well-appointed accommodation and public areas for use by people with disabilities; low level of social status.

Subjective factors include: life position, consisting in passive and not an effort to feel like a full member of society; psychological self-awareness, underestimation of their capabilities, hidden personal potential; lack of life objectives, settings; rejection by society (isolation, aggression); the desire to learn, to work, to live [1].

It is known that all training programs must be aimed at solving the triune task: training and strengthening of health of students with regard to special schools for pupils with eye pathology, the additional challenges facing them both, because they need to focus on medical-social and psychohygiene aspects of training.

For medical and social rehabilitation of students, adolescents with disabilities, with the pathology of vision it is necessary to develop a methodological program for the study of the functional state and health of disabled adolescents due to ophthalmic pathology, which includes adequate, well proven in the currently researching methods, as well as the adaptation of special methods to study the functionality of people with ophthalmologic diseases.

According to many scientists one of the most important factors influencing the functional state of the organism, its adaptation possibilities, level of health (both mental and physical), is a psychoemotional stress. Depending on the causes and conditions conducive to appearance of stress, available different stressful situations that early detection and elimination of risk factors of their occurrence can prevent the development of pathological processes [3].

Overcoming of borderline conditions helps the applying of adaptogenic measures. They are aimed at training the organism functions contained in the reactions of individual adaptation practices and maintaining constitutional evolutionarily conditioned defense mechanisms. In the period of adaptation and a compensatory stress depending on it severity adaptogenic activities should be preserving, correcting, and in the stage of adaptation "collapse" - with reducing

character. Measures for the correction should be based on the objectification of evaluation of the organism functional state at the level of prenosological - premorbid state, as a result of mismatch the organism capabilities and environmental requirements arise predictors of pathological process [14].

One of the main tasks of the modern psychohygiene - providing mental health of individuals and the population as a whole. Not less important task psychohygiene - implementation of measures of primary psychoprophylaxis aimed at improving the mental health to resistance to the influence of various environmental hazards [7]. A subject of direct study of psychohygiene presented by such common mental conditions such as personality accentuation, which under certain conditions can be transformed into the corresponding psychopathy - condition of the morbid character; various types of deviant behavior that bring personal and social danger; a wide range of borderline mental states that accompany the situation and risk periods and has neurotic character [14].

Prenosological states arise from dysfunction of the adaptive systems, which are currently intended to ensure stable functioning of the organism, and therefore the preclinical diagnosis is based on the definition of qualitative and quantitative indicators of the adaptation process, measured, and (or) calculated as a result of prophylactic examinations. With the use of monitoring observation of the state health of students in special educational institutions for the blind and visually impaired in the complex of hygienic diagnostic measures, resolve the significantly extend our views on the formation of prenosological states among students and accordingly propose a system of preventive measures for the correction of the functional state of the organism [8, 14 12, 13].

Based on the direct and reverse incremental regression analysis are developed statistical models allowing to predict the degree of probability of prenosological shifts in mental health, taking into account characteristics of the living and social conditions, the mode of the day and training adaptation, characteristics of the psycho-physiological functions development of the body and the personality traits [2, 17].

Introduction into the research activity of the borderline states involves the creation of well-structured system of diagnostic and corrective

measures, enabling consistently meet the challenges of population health assessment, sanitary and preclinical diagnosing and hygienic correction of the functional state of the organism, whose ultimate goal is the preservation of the individual, population and public health [11].

However, is necessary to emphasize that the current system of primary prevention, actually deprived of an extremely important element, which consists of objectification of evaluation of the functional state of the organism at prenosological state level, in circumstances where as a result of non-compliance, conformity of the organism capacity to environmental requirements and social conditions arise prerequisites for the formation of the pathological process [15].

Basic hygienic measures in special schools for children with pathology of the organ of vision is a prenosological hygienic diagnostics of the health state of students. It involves a detailed study of the whole complex of educational and domestic factors in connection with their targeted influence on child and adolescent organism. In addition, the development of methods for the detection and measurement of individual psychological characteristics of personality [9]. The objective of these programs is to establish qualitative and quantitative characteristics to an external influence. During experimental work on studying the modes of learning for the blind and visually impaired in specialized educational institutions one of actual tasks is to establish a thin line separates the normal reaction to external environmental impacts of pathological manifestations.

Thus, the basis of our research is a natural experiment that allows, based on studies using modern adapted techniques to develop a set of effective measures psychohygienic correction of the functional state of students, as well as to justify scientifically prognostic criteria for assessing social adaptation of the under study contingent. The search criteria for assessing the level of health is important to make timely and adequate organizational, medical and social measures for the correction of premorbid states [16, 10].

Conclusions. Thus, analysis of foreign and native literature on sociocultural rehabilitation of people with special needs, gives grounds to say that undoubtedly the development of the sphere of social protection and support to developing pretty rapidly in almost all countries of the world,

but I can't mention the lack of study of the combined effect of educational and household activities on the functional state and the state of mental health the adolescents with disabilities of organ vision, which belong to the "group of risk" of prenosological deviations in neuro-psychic sphere. Before issues of development of special needs children were solved mainly in way of defect correction and compensation. At today's level at the top of the issue should be clearly set the task of studying and managing the development of child personality with special needs with a view to its fulfillment in the world of sighted people. For the organization of competent pedagogical work must take into account not only the age, but also the individual characteristics of children, due to their personal psycho-emotional qualities, as well as differentiated features associated with the diagnosis of eye diseases, the degree of visual impairment and their health.

References:

1. Baevskiy RM. *Prediction of states on the edge of norm and pathology*. M: Medicine; 1979. 295 p.
2. Bardov VG, Serheta IV. *Hygienic basis of prediction the health of children and adolescents*. *Problems of medicine*. 2000;(1-2):41-6.
3. Biryukov NA. *Healthcare technologies in educational institutions* *Hygiene and sanitation*. 2006;(1):76-7.
4. Zhaboedov GD, Skrypnyk RL, Baran TV. *Ophthalmology. Textbook*. Kyiv; 2011. 412 p.
5. Zavyalova AV, Smirnova VM. *Normal physiology*. M: MEDpress-Inform; 2009. 631 p.
6. Cantor VZ. *Educational rehabilitation and lifestyle blind and visually impaired*. SPb: Caro; 2004. 240 p.
7. *Psychohygiene: Ukrainian-Russian Dictionary*. Kharkiv: Contrast; 2008. 192 p.
8. Korobchanskiy VA. *Hygienic psychodiagnostics of prenosological states in adolescence and early adulthood. Guide for doctoral students, graduate students, applicants and physicians*. Kharkiv: Contrast; 2005. 4-5.
9. Korobchanskiy VA. *Psychohygiene: our understanding in 2007*. *Medical practice*. Kharkov. 2007;(1):108-15.
10. Korobchanskiy VA, Lantukh AP, Vitrischak SV, Brodetsky YU. *The phenomenon of marginality in the modern Ukrainian society: methodological, sociological and psycho-hygienic aspects*. Lugansk: LugGMU; 2008. 312 p.
11. Korobchanskiy VO, Reznichenko OG, Veremiyenko OV. *Hygienic assessment and optimization of the functional state of students in higher education institutions through the introduction of the medicine of extreme conditions principles*. *Experimental and clinical medicine*. 2015;3(68):157.
12. Korobchanskiy VA, Mikheev VV, Vasilchenko IO. *Psychohygienic problems of prenosological diagnostics of adolescent's mental health problems*. *Bulletin of Hygiene and Epidemiology*. 2007;11(2):232-3.
13. Korobchanskiy VA, Vytrischak SV. *Hygienic prenosological psychodiagnostic: methodological basis and practical perspectives* *Environment and Health*. 2005;(4):9-14.
14. Lesovoy VN, Kapustnik VA, Korobchanskiy VA. *Medicine of borderline conditions: theory and practice of prenosological diagnostics*. *Scientific journal of Health Ministry of Ukraine*. 2013;2(3):49.
15. Serheta IV. *Prenosological changes in mental state, modern psychohygienic approaches to interpretation, diagnosis and evaluation*. *Scientific Journal of Health of Ukraine*. 2013;3(4):36.
16. Serheta IV. *Hygienic aspects of rehabilitation of teenagers the marginal psychological disorders*. *Medical Rehabilitation*. 1995;(4):19-22.
17. Serheta IV, Bratkova OY. *Hygienic aspects of diagnostics and correction of changes in the emotional sphere of 15-17 years old adolescents*. *Bulletin of Hygiene and Epidemiology*. 2007;(2):234-7.
18. *Methodology of Teaching a Foreign Language to the Blind. Project "LISTEN & TOUCH": A Basic English Course for the Visually Impaired. Socrates programme: Lingua-2*. Available from www: <http://promedicine.ua/interview/serhejryikov/>

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