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## SECTION 18. MEDICAL SCIENCES AND PUBLIC HEALTH

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### **COMPREHENSIVE ASSESSMENT OF THE HEALTH STATE OF CHILDREN, ADOLESCENTS AND YOUTH FROM THE POSITION OF PREVENTIVE MEDICINE**

In the work scientifically based approaches to comprehensive assessment of the state of health of children and adolescents and youth in modern conditions are developed, preventive health-preserving technologies adequate to today's requirements are developed, which lead to the improvement of the functional state of the organism and the increase in the level of social and educational performance of schoolchildren and students. It was found that the problems of adequate assessment of the state of health of a growing organism are interdisciplinary in nature, and, therefore, involve the determination of indicators both of a purely pediatric content and those related to the identification of features of mental, psychophysiological, and socio-psychological adaptation individual to the usual and unusual conditions of stay [1-3].

In this regard, a systematic approach to solving the specified problem requires taking into account such provisions of the problematic content, such as problems of categorical and conceptual content (definition of health as a medical category), qualitative (taking into account not only morbidity indicators, but also data on the level of physical development, physical capacity, individual characteristics of the organism's response to the influence of environmental factors and social conditions of life, remote results of social and professional adaptation of students, as well as data of subjective screening research on the presence of signs of discomfort) and quantitative (application of adaptive, adaptive-energetic and psychophysiological approaches) assessment of the state of health, normalization of the leading indicators of the state of health (taking into account the characteristics of the functional state of the organism of children and adolescents and youth under the conditions of action of different degrees of intensity of influences, at different stages of the formation of the disease, etc.), definition and assessment of changes in state of health occurring at the current stage (taking into account the main patterns of the spread of diseases in child and adolescent populations and their structural features), forecasting (application of a comprehensive approach to the prognostic assessment of the state of health of children and adolescents and youth, which takes into account as indicators of functional capabilities and adaptive resources of the organism, as well as the peculiarities of the environment of permanent residence of the individual and determines the choice of the most appropriate means of forecasting, multifactorial statistical processing of data and reliable practical interpretation of the obtained results) and formation (use of a complex system of optimization of educational and extracurricular activities, other preventive health technologies) health.

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