

**ECOLOGICAL ASPECTS OF TRAINING THE MEDICAL UNIVERSITY STUDENTS
WITH A NEW DISCIPLINE
– PRINCIPLES FOR CHILDREN’S HEALTH FORMATION**

V.I. Makarova¹, R.R. Kildiyarova²

Northern State Medical University¹, Arkhangelsk, Russia

Izhevsk State Medical Academy², Izhevsk, Russia

The principles for the children’s health formation is a field of pediatrics which lays the foundation to the professional skills, knowledge and thinking of a pediatrician in the preventive medicine, and is included in the basic part of the professional cycle of a discipline ‘pediatrics’. The students develop a positive motivation to training the discipline, which is the basis for a successful pediatrician’s activity. In connection with this, the new program determines the content knowledge for the principles of the children’s health formation, which are necessary for the student to study the profile clinical disciplines. In particular, it refers to the clinical aspects in the children’s health formation. The environment has a significant influence on the health. All processes are interrelated in the biosphere. But for centuries, the people have been striving not to adapt to the nature, but to make it comfortable for their being; that resulted in the fact that any activity of theirs influenced the environment – negatively in most cases.

An all-round study of the human and environmental interrelations has resulted in the understanding that the health is a capital given not only by nature at birth, but also with our living circumstances.

The influence of the environment to the lifestyle and human organism can be regarded from several viewpoints: (1) the influence improving the health, increasing the body defenses and working ability, (2) the influence limiting the vital activities, (3) the harmful influence causing a disease or worsening the functional state of organism. The health problem has become a specific public problem of personal character, when the human, as a result of anthropogenic impact on his environment, found out that he put in a real and potential danger not just the health of particular children and teenagers, but unfortunately his own being as specie. A considerable part of human diseases is connected with a worsening ecological situation in the environment: the pollution of atmosphere, water and soil, the unsound food products, the rising noise, etc.

This chapter also pays attention of the students to the study of remote consequences after the unfavorable environmental influence on the health – mutagenic, gonadotoxic and embryotoxic effects. The diseases of endogenic character are in fact caused by a worsening environmental state and social stress. The diseases of social character appeared, and are connected with social

relationships, society values and ethic norms. Such social problems as toxic or drug abuse increase the risk of HIV infection.

The textbook written for the new discipline for pediatric training, gives a full and visual picture of the factors influencing the child's health, methods for the health level evaluation, concept of a healthy lifestyle in childhood, nutrition characteristics, physical, psychic and moral health. Much attention is paid to a physical and sport culture for a child – the foundation forming both the healthy vital activity and healthy lifestyle. A principally new input is the interpretation of aspects of spiritual education, behavioral motives and mindsets of the disabled people in the society. The principles for the health formation and the possibility to prevent the children from socially dangerous situations have been presented clearly and comprehensively from the modern viewpoints.

Thus, the new discipline 'Principles For Children's Health Formation', which is envisaged by the modern educational standard in training the pediatric students, should play a significant role in developing the professional competence for the pediatrician – both in the ecology of his own organism and environmental ecology.