

Subject: Medical Ecology	Subject type:	Compulsory Elective Courses
Study year: 3.	Content:	0/1 winter time
Study program: General Medicine		

Aim of the course

Students will acquire knowledge about the relationship between human exposure and the environment, will receive the knowledge about mutual interaction and consequences of human activities on the quality of the environment. They will identify options for addressing governmental protective measures and preventive activities as to prevent the damage of the health and the environment.

Education: practical

Assessment: written test, Exam

Syllabus

Fundamental of ecology. Basic factors in ecology influencing on health. Methods of epidemiological work, the strategy on environment and health. Biological features of human population. Adaptation of man on the environment. Adaptability. Forms of stress. Global perspective in terms of human ecology. Urban environment and health risks. The components of the environment (atmosphere, hydrosphere, lithosphere, waste) and health, the possible environmental impact of the polluted environment on population health, health risks. The inorganic and organic pollutants. Allergies, allergens, distribution, concepts, preventive measures. Effects of different factors on health (physical, chemical, biological, microbiological factors, infectious risk factors and disease, presence in the environment and working environment). Ecology of parasites and pathogen emergence and spread conditions, effects on human health (cause disease and prevention). Cancer disease and prevention. The impact of carcinogens in living and working environment, risk of cancer - for gastrointestinal tumors, respiratory system, blood, sexual organs of men and women skin. Cancer risk prevention.