
Секция 4

СОВРЕМЕННЫЕ ПОДХОДЫ К ОРГАНИЗАЦИИ ОБРАЗОВАТЕЛЬНОГО ПРОЦЕССА В ОБЛАСТИ ПРЕДУПРЕЖДЕНИЯ И ЛИКВИДАЦИИ ЧРЕЗВЫЧАЙНЫХ СИТУАЦИЙ

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BIOLOGICAL SAFETY AS A DISCIPLINE OF MILITARY MEDICAL EDUCATION IN THE CONTEXT OF MODERN CHALLENGES AND THREATS

Currently, the preventive activities of a military doctor on the organization and conduct of sanitary and anti-epidemic measures are carried out in changed conditions. There is an increase in military biological threats and potential risks of the use of biological pathogenic agents in military conflicts, which actualizes the issues of biological security of both the population as a whole and military personnel's [1, 4]. In modern conditions of military actions, one of the main ways to carry out a biological attack should be considered diversionary. With the help of small-sized diversionary equipment, it is possible at some point to carry out air and water contamination in the places of deployment of military personnel. Technical means of delivering biological agents based on unmanned aerial vehicles pose a real threat to the large-scale use of pathogens in any territory. The use of biological formulations by an eventual opponent using various delivery methods allows modeling two types of epidemic process: natural and artificial. According to the special literature, the achievements of chemistry and biology, the development of nanotechnology, recombinant synthesis and systems related to dual-use technologies allow the use of biological agents that do not fall under the Convention on the prohibition of the development, production and stockpiling of biological and toxin weapons and on their destruction for military purposes and as methods of exposure to worsen the sanitary and epidemiological situation [2, 3]. Taking into account these circumstances, it is undoubtedly necessary to improve the professional level of military doctors who are able to ensure the functioning of anti-epidemic protection as an effective system for preventing the occurrence of infectious diseases in military personnel and conducting scientifically based measures in

biological emergencies. The formation and study of the issues of the preventive component of the biological safety of troops is one of the directions of improving military medical education in modern conditions.

Due to the special relevance of biosafety issues for cadets of the Military Medical Institute who are studying at the Departments of Epidemiology and military Epidemiology, it is advisable to introduce the discipline «Biological Safety» as part of a special course or elective course in the amount of 25 academic hours with intermediate certification in the form of a credit. Include in the content of the curriculum the study of the following topics: epidemiological assessment of the diversity of biological agents, a model for the development of an artificial epidemic process when using biological agents, assessment of biological risks and prognostication of the sanitary and epidemiological situation, new and newly emerging human and animal infections, the epidemiological situation in the world and the Republic of Belarus, its changes in the conditions of globalization, national and international aspects of sanitary protection of the territory of the republic from the introduction and spread of infectious diseases, as well as a system of rapid response measures, sanitary and anti-epidemic measures, operational-tactical and special measures in the biological protection system of troops. In the course of training, the main attention should be paid to the practical training of cadets based on the improvement of teaching methods.

REFERENCES

1. Bioweapons of the USA: data of secret laboratories in Ukraine revealed [Electronic resource] // The first Russian. - Access mode: https://by.tsargrad.tv/investigations/biooruzhie-ssha-raskryty-dannye-sekretnyh-laboratorij-na-ukraine_510135 . – Access date: 06.02.2023.
2. Litvinenko, V.E. Protection of troops from weapons of mass destruction: studies. manual / V.E. Litvinenko, A.A. Gerasimov. – Moscow: KNORUS, 2021. – p. 111-116.
3. Denisov, P. The main goal is to protect the world from destruction: [about the briefing of the Chief of the radiation, Chemical and biological Protection troops of the Armed Forces of the Russian Federation] / P. Denisov // Weekly newspaper of the Western Military District. On guard of the Motherland. – 2022. – 2 Dec. – p. 3.
4. Kozak, Yu. Vanguard of the troops of the RCBZ : [about the activities of the biolaboratories of the USA] / Yu. Kazak // Krasnaya Zvezda. – 2022. – November 11. – p.6.

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