

RELEVANCE OF CREATING HARD GELATIN CAPSULES WITH ANTIHELMINTIC ACTION BASED ON MEDICINAL PLANT RAW MATERIALS

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Introduction. In recent decades, problems of parasitic diseases in Ukraine have not been given due attention. Their spread is facilitated by the revitalization of migration processes, a significant increase in illegal migrants from various countries of the world, the impoverishment of the population, and the decline of sanitary and educational work. However, parasitic infestations are a problem not only in our country. According to the WHO, intestinal helminthiasis alone accounts for about 1.4 billion new cases of diseases registered during the year. Today, the incidence of ascariasis continues to grow. In particular, the harmfulness of ascariasis lies in the fact that, settling in the middle of the human body, roundworms disrupt the process of metabolism, cause vitamin deficiency, and in case of serious infection, they disrupt the work of many organs and systems [1].

The purpose of the study. The purpose of our work is to develop the composition and technology of hard gelatin capsules with anthelmintic action based on medicinal plant raw materials.

Research methods. To carry out the planned research, we conducted an analysis of the scientific literature and summarized the results.

Main results. Medicines obtained from plants are widely used in medical practice and play an important role in drug therapy. Phytopreparations are widely used in the complex treatment of various diseases. They have a number of indisputable advantages: low toxicity, easy absorption by the human body, the possibility of long-term use without the risk of side effects, mildness and reliability of action. Based on literature data, as active pharmaceutical ingredients for hard gelatin capsules with anthelmintic action, we selected dry extracts of *Ruta graveolens*, *Artemisia abrotanum* and *Coriandrum sativum*, which have anthelmintic action, because they contain groups of such chemical substances as terpenes, phenolic and nitrogenous compounds (primarily saponins, glycosides, flavonoids, tannins, alkaloids). The anthelmintic action of the selected medicinal plants is associated with a negative impact on the process of poisoning parasitic worms, their mobility, reproduction and growth [2].

Conclusions. Based on the literature, we have selected dry extracts of *Ruta graveolens*, *Artemisia abrotanum* and *Coriandrum sativum* for the preparation of hard gelatin capsules for anthelmintic action.

References.

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