

## DEVELOPMENT OF COMPOSITION CAPSULES FOR TREATMENT OF VARICOSE VEINS

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**Introduction.** Treatment of varicose veins, at this time, is in the first place and has a great socio-economic importance. According to various sources, in varying degrees, varicose veins suffer up to 35% of women and 15% men. Varicosities, however, are frequently the cause of discomfort, pain, loss of working days, disability, and deterioration of health-related quality of life.

The leading symptom of varicose veins is the expansion of the saphenous veins, because of which the disease got its name. One of the common symptoms that appear at the very beginning of the disease, there are transient swelling and pain along the veins (often not yet expanded) so-called "heavy legs syndrome", symptoms are usually more pronounced in the evening, after work, or during prolonged standing, especially in hot weather. Severe form may also lead to loss of limb or loss of life.

The complexity of the etiology and pathogenesis of venous diseases, the complexity of their currents, as well as a high probability of complications explain the need for a comprehensive drug therapy of this disease with the use of safe and effective herbal remedies. Development and production of medicines in capsule form is among the most dynamically developing areas of the pharmaceutical industry, due to a number of advantages of this formulation: ease of use, precision dosing, high bioavailability.

**Aim.** Therefore, the aim of our work was to study the physical, chemical and pharmaco-technological properties of active substances and excipients for the formulation and development of technology-based capsules hazel and horse chestnut extracts.

**Materials and methods.** Development of the drug was carried out using a thick hazel extract and dry extract of horse chestnut.

Determined pharmaco-technological properties of the extracts and their mixtures with auxiliaries, then the quality of the capsules was evaluated by the procedures of State Pharmacopoeia of Ukraine (SPU).

**Results and discussion.** Studied pharmaco-technological properties of thick hazel extract, obtained on the Department of Pharmacognosy NUPh and dry extract of horse chestnut. As a result of investigations, developed the optimal composition of capsules, which in terms of quality meet the requirements of SPU and suggested the technology of their production.

**Conclusions.** Thus, as a result of the research developed the composition and technology of production of capsules with thick hazel extract and dry extract of horse chestnut, which fully comply with the requirements of SPU.