

## **MODERN APPROACHES FOR CREATION OF SOLID MEDICINAL FORMS ON BASIS OF CHONDROPROTECTORS**

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Creation of medications based on the complex of modern researches: marketing, technological, physical and chemical and economic. In connection with diminishing of efficiency of researches on creation of new medications it was begun to spare greater attention the improvement of properties already known economies, a necessity appeared for using of modern approaches for creation of new medications which will help to promote profitability of domestic pharmaceutical market and reduce the terms of turnover of money facilities.

To modern approaches of creation of medicinal preparations it is possible to take the followings directions: creation of new medicinal forms with the set biopharmaceutical properties (medicines with a modified-release drug on the basis of micro — and nanokapsulami, nanocapsules, homeopathic remedies, powders liposomes, implants, etc.); the search for new molecules or the use of new combinations of previously known pharmaceutical active substances; study of pharmacokinetics of drugs to select new auxiliary substances and optimization of composition; the improvement of existing technologies with the use of modern equipment.

Scientific approach to the study of physicochemical and pharmaco-technological properties of substances and excipients renders a significant influence on the bioavailability and the therapeutic efficacy of the medicinal product.

The creation of medicines in the form of tablets, capsules, powders is one of the most dynamically developing directions in pharmacy, due to a number of advantages of these medicines. These include convenience and ease of use, accuracy of batching, high bioavailability, the stability of the active ingredients and the use of sparing technological regimes at packing.

Today drugs in tablet form, gelatinous capsules, and granulated powders are present in the nomenclature of almost all pharmacological groups, including chondroprotectors. At the moment the production of chondroprotective drugs for Ukrainian companies is a priority, as in the pharmaceutical market of Ukraine these drugs account for about 40 % of the total volume of drugs used in the treatment of diseases of locomotor apparatus. This causes the relevance of further expansion of domestic chondroprotectors in solid dosage forms.