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КАФЕДРА ПРОМИСЛОВОЇ ТЕХНОЛОГІЇ ЛІКІВ ТА КОСМЕТИЧНИХ ЗАСОБІВ
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PROSPECTS OF CREATING ORODISPERSIBLE TABLETS BASED ON MEDICINAL PLANT RAW MATERIALS

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Introduction. Currently, an important issue in medicine is the therapy of neuroses and neurosis-like conditions, the growth of which is due to the number and intensity of psychotraumatic factors affecting a person in modern society. Tranquilizers, antidepressants and sedatives are widely used in the treatment of neurotic disorders and pharmacological correction of stress. The listed conditions require long-term treatment, therefore, the safety and tolerability of drugs is of particular importance. The use of synthetic drugs for the treatment of diseases of the central nervous system (CNS) is accompanied by a number of side effects: hypersedation, impaired memory and attention, metabolic, hormonal changes, the development of drug dependence, etc. These factors limit the possibility of their use. Therefore, of particular interest are preparations of plant origin used in medicine for the treatment of the above-listed conditions.

Therefore, the question arises of developing a solid dosage form, namely orodispersible tablets (ODT), which contain medicinal plant raw materials as active pharmaceutical ingredients.

Purpose of the study. The purpose of our work is to develop the composition and technology of orodispersible tablets. This dosage form quickly disintegrates in the oral cavity under the influence of saliva and does not require washing down with water. This is a convenient form for those who have difficulty swallowing, for example, for children, the elderly or patients with dysphagia.

Research methods. Bibliosystematic, analytical. Orodispersible tablets with dry peony extract were chosen as the object of the study.

Main results. When analyzing the data of the scientific literature, it was found that *Paeonia anomala* is used for the treatment of anxiety-depressive spectrum disorders. Medicinal preparations based on it have a sedative, anticonvulsant, anxiolytic, anti-inflammatory, analgesic, tonic, bactericidal effect. Currently, water infusions and decoctions are made from raw materials of *Peony anomala*, and a tincture is also produced, which is a sedative drug of plant origin. However, these dosage forms have a number of significant drawbacks (inaccuracy of dosage, inconvenience of use and transportation), have limitations in use in children and the elderly, and patients with gastrointestinal diseases. The solution to this problem is the development of ODT based on dry peony extract in order to create new domestically produced medicinal products.

Conclusions. Thus, at present, the development of the composition and technology of orodispersible tablets based on dry peony extract is relevant and promising.