

## PROSPECTS FOR THE CREATION OF CHEWERY TABLETS FOR USE IN UROLOGY

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**Introduction.** Cystitis is extremely common among women and represents a serious medical and socio-economic problem. In the United States, over 7 million visits to a doctor for urinary tract infections (UTIs) are registered annually, with clinical manifestations of cystitis accounting for over 2 million. During their lifetime, 20–25 % of women suffer from acute cystitis, every third of them experiences a relapse of the disease within a year, and in 10% it becomes chronic and recurrent. Cystitis most often develops at the age of 25–30 years, as well as in women over 55 years old, i.e. after menopause. The problem is also acute in Ukraine. Risk factors for the development of acute cystitis include female gender, hormonal changes during menopause, pregnancy, diabetes mellitus, other diseases of the urinary system (congenital anomalies, stones), antibiotic use, vaginal dysbacteriosis and disruption of the systemic microbiota. Therefore, important conditions for the treatment of cystitis are minimizing the risk of recurrence, the absence of influence on the vaginal (and systemic) microbiota, as well as minimizing the negative effects of antibacterial therapy, especially in patients of reproductive age and planning pregnancy. For the treatment of such a disease as cystitis, it is very important that the therapeutic effect occurs as quickly as possible. In this case, a promising medicinal form is chewable tablets (CT).

**The purpose of the study.** The purpose of our work is to create tablets that release an active pharmaceutical ingredient in the oral cavity, in particular, CT. Chewable tablets are a convenient dosage form for use, characterized by such advantages as dosing accuracy and rapid onset of therapeutic effect.

**Research methods.** This study used methods of information search, analysis, systematization of literary sources, Internet resources about oral solid dosage form — chewable tablets based on medicinal plants for use in urology.

**Main results.** Based on the analysis of scientific literature data, it has been established that cranberry and common sage extracts, which have antispasmodic, anti-inflammatory, septic properties, are promising for use in urology, and for the treatment of acute non-infectious cystitis. Analysis of scientific publications and technical documentation on related topics makes it possible to review, analyze and choose the assortment of excipients suitable for current technological processes in the production of chewable tablets.

**Conclusions.** Thus, at the present time, it is relevant and promising to develop the optimal composition and rational technology of CT based on medicinal plant extracts for curing in urology.