

IMPROVING OF THE COMPOSITION AND TECHNOLOGY OF EXTEMPORANEOUS VAGINAL SUPPOSITORIES WITH DOXYCYCLINE

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Vaginal infections are a source of significant morbidity among women. The main causes of infectious vaginal infections are vaginal candidiasis, trichomoniasis and bacterial vaginosis. Thus, the need for further study of the problem of treating vaginal infections is relevant.

The aim is improving the composition and technology of extemporaneous vaginal suppositories with doxycycline for treatment vaginal infections.

A study of the pharmaceutical market of industrial produced medicines for the treatment vaginal infections was conducted. Found that the most medicines are of foreign origin – 81 % and the Ukrainian market represented only 20 % of medicines.

Today in Ukraine in the pharmacies, there is a lack of extemporaneous produced medicines for the treatment vaginal infections. Extemporaneous production of medicines allows individual approach to patients, which consider the characteristics of an organism, disease, symptoms of it and its stage. This is the main principle and advantage of preparation medicines «ex tempore». Analysis of extemporaneous compounding of the pharmacies in Kyiv and Kharkiv showed that most doctors prescribe vaginal suppositories, which incorporate the following ingredients: doxycycline, dimeksid, synthomycine liniment, menthol (in different ratios) on the base of hard fat. Based on our own research was chosen as active substance doxycycline and base of natural origin: cocoa butter and beeswax (developed at the Department of Drug's Technology led by prof. Yarnykh T.G. and assoc. prof. Chushenko V.M. and on which patent was obtained), which identified a number of advantages over synthetic bases. The base mixes well with a variety of medicines, has a distinct melting point and high ductility, and expresses reparative and lubricating effect, on this base vaginal suppositories are prepared by the casting method that significantly reduces process.

The research allowed improving the composition and developing technology of extemporaneous vaginal suppositories with doxycycline on the base of cocoa butter by the casting method for treatment vaginal infections.