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NATIONAL UNIVERSITY OF PHARMACY

**TOPICAL ISSUES OF NEW
DRUGS DEVELOPMENT**

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In addition, we have offered the technology of obtaining tablets and capsules based on the studied species, which includes the following stages: preparation of raw materials, preparation of a humidifier, mixing and wetting of the mass, granulation, drying and dusting of granules, capsulation or tableting, packaging and labelling of the resulting products

Conclusions: In the course of experimental research, we developed the composition and technology of tablets and capsules based on the species of gastric and sedative action. It is proved, that all samples of the received granules, as well as tablets and capsules on their basis, fully comply with the requirements of the StPt in all indicators. The best moisturizer for preparing tablets and capsules is sugar syrup.

SELECTION OF ESSENTIAL OIL CONCENTRATION FOR VAGINAL SUPPOSITORIES BASED ON MICROBIOLOGICAL RESEARCH

Lavrova A. D.

Scientific supervisor: assoc. prof. Kryklyva I. O.
National University of Pharmacy, Kharkiv, Ukraine
kuroki06@gmail.com

Introduction. Cervical erosion is a disruption of the integrity of cervix epithelial cells. Over 35% women are diagnosed with this disease and they are most frequently below the age of 25. Erosion is an important problem because it might lead to such serious health complications as infertility, dysplasia and even cervical cancer.

Aim. Our goal is to develop technology and ingredients of vaginal suppositories for cervical erosion treatment which contain vinilin, eucalyptus essential oil, fir essential oil and rosemary essential oil. Three samples of vaginal suppositories were obtained for the study of antimicrobial activity. Samples contain tallow base, vinilin in the concentration of 1%, eucalyptus essential oil (sample №1), fir essential oil (sample №2) and rosemary essential oil (sample №3) in concentrations of the 0,5%.

Materials and methods. Antimicrobial activity of the samples has been evaluated in vitro with the agar diffusion method. It bases on ability of active substances to diffuse into agar medium inoculated with bacteria cultures. Following cultures were used in the research: gram positive microorganisms *Staphylococcus aureus* ATTC 25293; spore culture of *Bacillus subtilis* ATTC 6633; gram negative microorganisms *Escherichia coli* ATTC 25922 and *Candida albicans* ATTC 885-653. In research were used suspensions of bacteria microorganisms in saline solution. Microbial load was 10^7 colony-forming units in 1 ml of growth medium (CFU/ml).

Results and discussion. The study showed that samples №1 and №3 have a board spectrum of activity and high antimicrobial activity. Test subject №1 showed higher antimicrobial activity compared to test subject №3: *Staphylococcus aureus* - $14,1 \pm 0,5$ i $13,2 \pm 0,4$; *Bacillus subtilis* - $14,3 \pm 0,4$ i $13,0 \pm 0,4$; *Escherichia coli* - $13,2 \pm 0,5$ i $13,1 \pm 0,4$; *Candida albicans* - $12,5 \pm 0,5$ i $11,2 \pm 0,4$.

Conclusions. The researches have proved that test subject №1 which consists of vinilin in concentration of 1% and eucalyptus essential oil in concentration of 0,5% is the most perspective for further developing of technology of vaginal suppositories for cervix erosion treatment.

DEVELOPMENT OF COMPOSITION AND TECHNOLOGIES OF EXTEMPORARY OINTMENT WITH BIOLOGICALLY ACTIVE SUBSTANCES

Lebid' I. N., Erish S. K., Zhyvora N. V.

Scientific supervisor: assoc. prof, Zhyvora N. V.
National University of Pharmacy, Kharkiv, Ukraine
n.v.zhivora@gmail.com

Introduction. In assigning health priorities, skin diseases are sometimes thought of, in planning terms, as small-time players in the global league of illness compared with diseases that cause significant mortality, such as HIV/AIDS, community-acquired pneumonias, and tuberculosis. However, skin problems are generally among the most common diseases.