

MINISTRY OF PUBLIC HEALTH OF UKRAINE
NATIONAL UNIVERSITY OF PHARMACY

**TOPICAL ISSUES OF NEW
DRUGS DEVELOPMENT**

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Conclusions. That developed ointment with Calendula extract poses the good quality emulsion system warranting the stability of carotenoids, May help in the symptoms of skin problems like allergy, rashes, redness, spotting. Specifically very much suitable for severe and delayed local wounds.

GROUNDING OF COMPOSITION OF LINIMENT WITH ESSENTIAL OILS FOR TREATMENT OF RHEUMATOID ARTHRITIS

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Introduction. According to statistics, rheumatoid arthritis (RA) affects about 1-2 % of the population, that is, every hundred people. Pain in arthritis is one of the main symptoms. In addition, this pathology is accompanied by local inflammation, edema and hyperemia of the skin over the joint. Drug therapy of RA should be aimed at reducing the degree of activity of the process, reducing pain, stiffness in the joints, as well as preventing complications. Local treatment is most often the application of semisolid medicines in the form of applications or rubbings, which makes it possible to achieve the desired concentration of active substances directly in the pathological center, and the absorption of drug components is slow, without the risk of overdose. To exclude the side effects of synthetic drugs in the treatment of RA, in recent years there has been a widespread use of phytomedicines, which include essential oils.

Aim. The purpose of our work was to select the essential oils in the composition of semisolid medicine for the treatment of rheumatoid arthritis.

Materials and methods. The objects of our research are essential oils of tea tree, lavender and fir, which have natural anti-inflammatory properties, capable of pain relief and are usually used in the complex therapy of musculoskeletal system pathologies.

Results and discussion. As a dosage form for a developed local pharmaceutical product, we have chosen a liniment which benefits are high biological activity, ease of application to the skin and rapid permeability through the tissue to the site of the lesion. In addition, during its rubbing into the skin there is a light massage, that restores blood microcirculation in the affected joints and tissues. As active pharmaceutical ingredients (APIs) we offer essential oils that are characterized by a wide variety of therapeutic properties, namely: tea tree oil has a characteristic high ability to penetrate through the skin, thereby exhibiting a pronounced antiseptic and analgesic effect; fir oil removes swelling, inflammation and pain; lavender oil improves the circulation and access of oxygen to the muscles and joints, has anaesthetizing properties and enhances the action of other oils.

Conclusions. Thus, local therapy of inflammation and articular pain with essential oils in RA is an effective, safe and convenient part of treatment. The selected APIs have a complex effect on the affected joints and tissues that surround them and potentiate each other. The next stage of our work will be the choice of auxiliary substances and the development of a rational composition of the liniment for the treatment of rheumatoid arthritis.

PHARMACEUTICAL DEVELOPMENT OF OINTMENT CONTAINING DENSE LIPOPHYLIC EXTRACT OF CHAMOMILE FOR WOUND PROCESS TREATMENT

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Introduction. In the context of hostilities taking place on the territory of Ukraine, effective wound treatment is one of the most acute and complex problem of modern practical medicine. The problem of wound treatment, despite the great variety of proposed methods and drugs, remains unresolved.

Despite the constant improvement of surgical procedures, the incidence of infectious complications of wounds in the 1st and 2nd phase of wound healing is on average 3-15%, and according to individual