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«АҚАНОВ ОҚУЛАРЫ: ДЕНСАУЛЫҚ САҚТАУ ЖӘНЕ МЕДИЦИНАНЫҢ ӨЗЕКТИ
МӘСЕЛЕЛЕРІ»:

IX ХАЛЫҚАРАЛЫҚ ҒЫЛЫМИ-ПРАКТИКАЛЫҚ КОНФЕРЕНЦИЯ
«ҚОҒАМДЫҚ ДЕНСАУЛЫҚ САҚТАУ МӘСЕЛЕЛЕРІ»
«ҒЫЛЫМ ЖӘНЕ МЕДИЦИНА: ЖАСТАРДЫҢ ЗАМАНАУИ КӨЗҚАРАСЫ» «АТТЫ
СТУДЕНТТЕР МЕН ЖАС ҒАЛЫМДАРДЫҢ V ХАЛЫҚАРАЛЫҚ
ҒЫЛЫМИ-ТӘЖІРИБЕЛІК КОНФЕРЕНЦИЯСЫНЫҢ
ТЕЗИСТАР ЖИНАҒЫ

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«АКАНОВСКИЕ ЧТЕНИЯ: АКТУАЛЬНЫЕ ВОПРОСЫ МЕДИЦИНЫ И
ЗДРАВООХРАНЕНИЯ»

IX МЕЖДУНАРОДНАЯ НАУЧНО-ПРАКТИЧЕСКАЯ КОНФЕРЕНЦИЯ
«АКТУАЛЬНЫЕ ВОПРОСЫ ОБЩЕСТВЕННОГО ЗДРАВООХРАНЕНИЯ»
V МЕЖДУНАРОДНОЙ НАУЧНО-ПРАКТИЧЕСКОЙ КОНФЕРЕНЦИИ СТУДЕНТОВ И
МОЛОДЫХ УЧЕНЫХ «НАУКА И МЕДИЦИНА: СОВРЕМЕННЫЙ ВЗГЛЯД
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LABORATORY METHOD OF MANUFACTURE OF THE SOFT DRUG FORM FOR LOCAL USE WITH 0.1% CONTENT OF BETAMETASON

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Technology of drugs

Actuality. Chronic dermatoses are widespread in all age groups and have a high probability of developing secondary infectious complications. Preparations with betamethasone are leaders in the pharmaceutical market of Ukraine with external and local application [2]. Domestic firms-manufacturers occupy less than half of the market segment (43%) [1]. At the same time, the creation and development of an extemporal technique for preparing an external dosage form with betamethasone will reduce the cost of the drug and is timely and relevant.

The purpose and objectives of the study - the creation of a laboratory technique for manufacturing a soft dosage form with betamethasone for external use; get the most simple in manufacturing method and reproducible in a pharmacy.

Materials and methods of research. The work used betamethasone production in Spain, the supplier of "Chemstatus" Kharkov.

Results and discussions. Betamethasone is poorly soluble in water and moderately in alcohol. Therefore, for the introduction of betamethasone, cetyl stearyl alcohol was chosen as the emulsifier in the support carrier. As the hydrophobic carrier base of the composition, vaseline appears, for the stabilization of which a paraffin wax sealant and a hydrophobic solvent are used, vaseline oil.

We offer a laboratory technique for the extemporal manufacture of a soft composition according to the formula:

Betamethasone 0.1
Cetyl stearyl alcohol 0.05
Purified water 0.75
Paraffin 10.0
Oil Vaseline 10.0
Vaseline up to 100.0

In a heated mortar, cetyl stearyl alcohol is weighed out and the water is purified, mixed until dissolved and we add the pre-ground substance of betamethasone - emulsify. In a separate cup, we melted paraffin, petrolatum and Vaseline oil. Then, in parts, add the molten base to the emulsion. Homogenize. The finished composition is packed in a wide-mouth container of 30 grams. We prepare for sale. The prepared composition is subject to intra-drug quality control in accordance with the methodological recommendations "Requirements for the manufacture of non-sterile drugs in pharmacy" (Ministry of Health of Ukraine No. 391 of 03.08.2005) and requirements of the State Pharmacopoeia of Ukraine.

Conclusions. An extemporal technology of a soft composition on a lipophilic base with 0.1% betamethasone content is proposed for use as an anti-inflammatory agent of topical application. Studies continue.

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