

Materials and methods. The analysis of the pharmaceutical market of RM, the study of the State Nomenclature of Medicines.

Results. As a result of the detailed analysis of the pharmaceutical market in the RM it was determined that the basic producers of the combined medicines, using in the treatment of hypopotassemia, are Romania - 42%, Ukraine - 21%, Russia - 17%, Germany - 9%, US - 6 %, Hungary - 5%. Unfortunately, the monocomponent potassium medicines predominate (70%) on the pharmaceutical market of the RM, which provides only a daily dose of this electrolyte. There is not any native combined medicine in RM. Basing on this fact, it is proposed to elaborate a new combined pharmaceutical product containing potassium aspartate, magnesium aspartate, potassium orotate and spironolactone, which will be able to ensure adequate causal treatment in hypopotassemia due to stopping of the potassium losses (renal or extrarenal) and regulation of metabolic disorders, which generates the normalization of potassium potential in cells.

Conclusions. The actuality and usefulness have demonstrated the necessary of the research initiating to elaborate the native combined pharmaceutical product, which would be accessible, effective, convenient and low in toxicity

Key words: hypopotassemia, combined product, pharmaceutical market

DEPARTMENT OF DRUGS TECHNOLOGY

355. PREPARATION OF SUPPOSITORIES WITH PROPOLIS EXTRACT

Author: **Irina Sofian**

Scientific adviser: Nicolae Ciobanu, MD, Ph.D., Associate professor; Rodica Solonari, MD, PhD, University assistant, Department of Drugs Technology

Nicolae Testemitanu State University of Medicine and Pharmacy of the Republic of Moldova

Introduction. Propolis is known as one of natural products with multiple therapeutic effects, such as: antimicrobial, antibiotic, anti-inflammatory, analgesic, antioxidant, antifungal and anti-tumor. This apiculture product has a very complex composition, consisting of the following groups of active principles: phenols, flavonoids, amino acids, volatile oils, steroids, minerals, etc. The development of pharmaceutical forms with propolis extract is a very actual problem.

Aim of the study. Technology development and standardization of suppositories with soft propolis extract.

Materials and methods. Analysis of State Nomenclature of drugs of the Republic of Moldova. Use of hand rolling and molding methods and different excipients to prepare suppositories with propolis extract.

Results. The analysis of State Nomenclature of drugs of the Republic of Moldova denotes a very low content of preparations with soft extract of propolis. Most of the suppositories have anti-inflammatory action (25%); followed by analgesic-antipyretic (15%); immunomodulators (14%), etc.

Suppositories with soft propolis extract were formulated in the compounding department of Vasile Procopisin Pharmaceutical University Center. The excipients used were cocoa butter, PEG 4000:400 (9:1) and PEG 4000:1500:400 (6:3:1). The performed quality tests on appearance, melting rate, dissolution rate and uniformity of mass met the quality standards required by European Pharmacopoeia.

Conclusions. The technology of preparation of suppositories with soft propolis extract by two methods, using different excipients was elaborated and quality assessment was performed. The results of the research will allow the introduction of suppositories with soft propolis extract in assortment of Vasile Procopisin Pharmaceutical University Center as elaborations.

Key words: propolis, suppositories, extract