

further research to determine the mechanisms of their toxic effects to prevent or reduce them, is an important area and is modern and relevant. It is also important to study new synthesized substances that have theoretical potential as medicinal substances in order to study their effects on animal and human cells.

**Prospects for creation of suppositories based on medicinal plant raw materials  
for use in proctology**

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The problem of diagnosing and treating proctological diseases does not lose its relevance today. In the structure of proctological morbidity, hemorrhoids rank first in both men and women. This disease not only causes physical suffering, but also affects the emotional state of patients, causing them various mental disorders. At all stages of hemorrhoidal disease, drugs are indicated for symptomatic treatment. These are steroidal and non-steroidal anti-inflammatory drugs, local anesthetics, astringents and emollients, both in monotherapy and in combination.

Local medications help the patient maintain personal hygiene, relieve itching and pain. More often in proctology, such forms of drugs as creams and ointments for the perianal and anal areas, for rectal administration, in the form of oral dosage forms (drops, capsules, tablets) are used, but the most Rectal suppositories remain rational and convenient. Today, the creation of products based on components of plant origin in the form of both single preparations and in combination with synthetic substances is becoming increasingly popular. Among the active pharmaceutical ingredients, we selected dry extracts of *Hamamelis virginiana* and *Chamaenerion angustifolium*, because the aroma has a venotonic, anti-inflammatory, blood-spinal effect. Also, for the stock of rectal suppositories, we introduced the local anesthetic anesthesin, which has high anesthetic power and low toxicity.

Therefore, the combination of dry extracts of witch hazel, John's wort and local anesthetic - anesthesin in a convenient and rational suppository dosage form will be able to significantly speed up recovery and improve the quality of life of patients, as the symptoms will be successfully eliminated, which will contribute to the satisfaction of basic needs in the treatment of internal and external hemorrhoids, itching , anal fissures, proctitis and anal eczema.

### **Study of methods for obtaining dry extract «TRICARDION»**

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**Abstract.** This study examines various methods for obtaining dry extract «Tricardion» based on medicinal plant materials: peppermint leaves, hawthorn berries, and motherwort herb. The most common methods for obtaining extracts are maceration, percolation, repercolation, and circulatory extraction.

**Keywords:** methods, dry extracts, bioactive substances, ethyl alcohol.

**The relevance of researching** effective methods for obtaining dry extracts is underscored by factors such as:

- Increasing production efficiency through the development of new methods and technologies for obtaining dry extracts.

- Utilizing modern methods can enhance the quality and purity of dry extracts.

**Main part.** Several common methods for obtaining dry extract are known, but selecting the appropriate method is an individualized approach to enhance the yield of bioactive compounds. This plant composition contains a large number of bioactive substances such as flavonoids, tannins, essential oils, and others. As mentioned above, it is now necessary to select a technology for obtaining the dry extract. It includes motherwort herb, hawthorn berries, and peppermint leaves. By studying the properties of each plant, we have selected a suitable method for obtaining the dry extract, which provides our medicinal plants with a high yield of bioactive