

CHAMOMILE PHARMACY “CHAMOMILLA OFFICINALIS” IS A PROMISING RAW MATERIAL USED IN TRADITIONAL MEDICINE AND DENTISTRY

Oydina Zarifovna Orzieva

Bukhara State Medical Institute Named After Abu Ali ibn Sino

Abstract

The collection and analysis of the beneficial properties of a medicinal plant is the basis for the creation of dosage forms with new pharmacological activity. The medicinal plant we are studying, chamomile pharmacy, has been used in traditional medicine for a long time. Today's medicine and pharmacy requires precision in research.

Materials and methods of research. The materials of this article are a review of sources about chamomile pharmacy, which is used as a promising tool in dentistry.

Keywords: Chamomile pharmacy, dentistry, dosage forms.

Introduction

Chamomile pharmacy “Chamomilla officinalis” – a traditional medicinal plant has found its wide application, is still used in various fields of medicine. Due to its anti-inflammatory and antimicrobial effect, it has found application in dental practice too. Dental films are a promising dosage form that has found application in the treatment of various diseases of the oral cavity. They have a number of advantages, such as the ability to combine drugs of different pharmacotherapeutic groups, localization and prolonged action, portability and convenience for patients of different age groups, including children [1].

As well as other dosage forms used in dental practice, due to the content of the components of chamomile pharmacy, it is a promising form. In this review, we consider the work of some authors related to chamomile, used medicinal plants as a component of the dosage form. To study the pharmacological properties and to extract new dosage forms and medicines, we culturally grow medicinal plants on the pharmaceutical land plot of our institute annually. In parallel, we consider the works of the authors.

According to the description of A.M. Sampiev, A.V. Bepalova, E.B. Nikiforova, the positive properties of dental films are particularly useful in the development of medicines for the treatment of oral diseases characterized by inflammatory processes and the presence of pain. Such diseases, in particular, include some dental problems that occur in childhood, such as teething and tooth extraction, caries and others. The use of combined drugs makes it possible to achieve a local and long-lasting anti-inflammatory and analgesic effect, which makes them a rational choice for the treatment of these diseases [1].

At the first stage of research, a medicinal component was selected for the development of dental films that provide anesthetic and anti-inflammatory effects. Trimecaine was chosen as an



anesthetic, which has a strong local analgesic effect with a significantly lower risk of side effects compared to other anesthetics. This is especially important for drugs used in children's practice [9].

To achieve an anti-inflammatory effect, it was proposed to introduce a complex of biologically active substances (BAS) from chamomile flowers into the composition of the films. This medicinal plant raw material (MPR) is widely known in medical practice due to its anti-inflammatory, antiseptic, analgesic and other positive medicinal properties. In addition, it is safe for use in children of even the earliest age groups [6].

As an extractant for the extraction of biologically active substances (BAS) from chamomile flowers when using hot purified water, the safety requirements of the resulting product, its use as part of a children's dosage form and scientific data on the chemical composition of chamomile flowers were taken into account. One of the important BAS is flavonoids, and ethyl alcohol is usually used to extract them. However, due to the safety requirements of the developed dosage form, the use of alcohol was considered inappropriate due to the possible residual presence of the extractant. As a result, hot purified water was used to extract BAS from chamomile flowers, capable of extracting BAS of various natures, including flavonoids, quite effectively [1].

In the process of selecting the extraction method, the peculiarities of the chemical composition of chamomile flowers and the requirements for the method were taken into account, which were proposed by the remaceration method. As a result of the research, the composition and technology of dental films of anesthetic and anti-inflammatory action containing trimecaine and aqueous extraction from chamomile flowers were proposed. It has been shown that the optimal way to obtain aqueous extraction from chamomile flowers is a three-stage remaceration with purified hot water, which allows extracting more than 70% of the amount of flavonoids from the initial medicinal plant raw materials [1].

Conclusions

Based on the work done, it was established that the medicinal plant chamomile pharmacy is a promising medicinal plant for our future research, which will make the medicinal plant popular in traditional medicine. Our task is also to develop dosage forms based on the object of our research for the oral health of our future generations and for today too.

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