

Хроматографічне дослідження фенольних сполук проводили методом двомірної ПХ у системах розчинників етилацетат – кислота мурашина безводна – вода (10:2:3) – I напрямом; 15% розчин кислоти оцтової та 2% розчин кислоти оцтової – II напрямом та одномірної ПХ у системі розчинників: етилацетат – кислота мурашина безводна – вода (10:2:3). Флавоноїди виявляли за забарвленням плям у денному та УФ-світлі до і після обробки хроматограм реактивами: парами розчину аміаку концентрованого; діазобензолсульфонової кислоти розчином; 10% розчином натрію гідроксиду у 96% етанолі; 2% розчином алюмінію хлориду у 96% етанолі.

Хроматографічне дослідження іридоїдів проводили методом висхідної ТШХ у системі розчинників кислота мурашина безводна – кислота оцтова льодяна – етилацетат – вода (5:5:12:44); як хромогенний проявник використовували реактив Шталя та реактив Трим-Хілла. Хроматограми аналізували в денному та УФ-світлі світлі.

**Результати дослідження.** В результаті у квітках виявлено 12 фенольних сполук, з них 8 флавоноїдів; ідентифіковані хризоеїол, кверцетин, скутеляреїн, ізоскутеляреїн. Виявлено 7 фенолкарбонових кислот, ідентифіковані саліцилова, ванілінова, бузкова, гентизинова та ферулова.

**Висновки.** Результати свідчать про доцільність подальшого дослідження біологічно активних сполук *Lamium amplexicaule* (*L. stepposum*).

## THE RELEVANCE OF CREATING A HOMEOPATHIC ANTI-INFLAMMATORY DRUG

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**Introduction.** The level of need for homeopathic medicines is growing in Ukraine. Homeopathic remedies have become an integral part of the range of not only homeopathic but also conventional pharmacy. In the structure of turnover of large wholesale companies, the sale of homeopathic remedies is up to 5 %. In today's situation, it has become necessary to develop a strategy for the formation of the range of homeopathic remedies.

According to some estimates, the method of homeopathy in our country is used by 10 to 15 % of doctors. It is established that the current range of homeopathic medicines and substances of various origins is quite diverse and is 600 items. The manufacture of homeopathic medicines in our country is carried out on the basis of the State Pharmacopoeia of Ukraine (2<sup>nd</sup> ed.).

The combination of methods and drugs of official medicine and homeopathy allows, relatively quickly, achieving the desired effect in the treatment of many diseases.

But with the introduction of the method of homeopathy in practical health care there are great difficulties in organizing the industrial production of homeopathic medicines and ensuring their effectiveness, primarily due to the specifics of production methods of standardization of homeopathic substances dosage forms.

Therefore, an important issue that needs to be addressed due to the widespread use of homeopathic medicines is the development of homeopathic medicines and, at the same time, modern

technologies for their preparation, methods of standardization and quality control of medicines and raw materials, development of technical documentation on matrix tinctures and starting substances.

**Aim.** Scientific substantiation composition of homeopathic anti-inflammatory drug.

**Materials and methods.** The methods of system analysis, observation and generalization were used in the work.

**Results and discussion.** Extensive use of drugs has led to such negative phenomena as drug dependence, drug intolerance and, above all, allergic reactions. These and a number of other side effects are dangerous to human health and life and often make it unacceptable to treat acute and especially chronic diseases with allopathy.

It is obvious that the desire to meet the criteria of efficacy and safety of medicines is forcing modern doctors to increasingly turn to homeopathy in addition to traditional medicine. After all, when using a homeopathic method of treatment that operates with small doses of drugs, devoid of toxic and allergenic effects on the body, on the principle of similarity, the therapeutic effect is effective, individualized and, most importantly - safe, causes virtually no side effects.

Modern experimental studies indicate the prospects for the use of homeopathic medicines, which makes it important to develop a new homeopathic medicine based on medicinal plant raw materials. Widespread in nature mullein densely floral causes its use in the development of homeopathic anti-inflammatory drugs.

Mullein flowers have expectorant, enveloping, anti-inflammatory and choloretic effect. They are used for bronchitis, catarrh of the upper respiratory tract, as well as diseases of the gastrointestinal tract, liver and spleen. Mulberry infusion of olive oil is an effective remedy for chronic otitis media, eczema and boils in the external auditory canal. In dentistry, the infusion and decoction are used as an emollient, anti-edema for rinsing the mouth with swollen gums, hemostatic for gingivostomatitis and periodontitis. In obstetric practice, the powder is used as a wound-healing for cracks of bacterial origin.

In germany and great britain, mullein is used for rheumatism, headaches, neuralgia, tracheitis, gastritis, as a diaphoretic and wound healing agent. In poland, in addition, it is prescribed for pain in the stomach and intestines, neuritis.

Mulberry flowers (dry corollas): have been included in the american pharmacopoeia (usp - 23), the german pharmacopoeia (daw - 6), the indian pharmacopoeia in 2000, the german homeopathic pharmacopoeia since 2000 (nav - 2000) and many other pharmacopoeias world.

Fresh flowering herb mullein is used to prepare homeopathic matrix tincture. In homeopathy, it is used as an effective expectorant and emollient in diseases of the upper respiratory tract (laryngitis, pharyngitis, bronchitis, tracheobronchitis), as well as for the prevention and treatment of acute forms of influenza.

In homeopathy, only 2 homeopathic remedies are used for the alternative treatment of cough, laryngitis and respiratory diseases. Tincture of homeopathic matrix mullein thick-flowered is part of such complex homeopathic remedies as tablets "sandra", used for the prevention and treatment of influenza and other colds. Mullein flowers - an integral part of the balm "bittner", which is used as a tonic and an immunomodulatory drug.

**Conclusions.** Thus, the popularity of homeopathic medicines is growing all over the world due to their effectiveness, safety and relatively low cost. The use of raw mullein as a raw material of medicinal plants will create an effective homeopathic anti-inflammatory drug.