

Study of the Composition of the Compound Used In Hypertension On The Basis Of Local Plant Raw Materials

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Abstract: Arterial hypertension is a risk factor for ischemic heart disease, acute myocardial infarction, and stroke. More than 30% of cardiovascular diseases and deaths are associated with hypertension. In many cases, the following factors can raise blood pressure: - constant nervous tension and strong excitement; - Chronic diseases such as obesity, kidney disease, diabetes; - Consumption of large amounts of salt products. - long working hours and noise. -hypodynamics. -Harmful habits (overeating, alcohol consumption, smoking). Herbal medicines are highly effective and do not lag behind synthetic medicines. All medicinal plants have complex effects, ease of assimilation, side effects and side effects are undoubtedly their advantages. [2,3]

Keywords: hypertension, plant raw materials, aggregates, bioactive compounds.

Relevance of the topic: Hypertension or arterial hypertension is a chronic non-infectious disease characterized by an increase in arterial blood pressure. This in turn leads to an increase in the tone of vital organs, blood vessels, functional disorders of the heart, kidneys and central nervous system. Hypertension is most commonly found in people over the age of 40, but today, hypertension is one of the most common diseases among young people, and the incidence of this disease is higher among people under the age of 40 and even among minors. More than 20% of the world's population suffers from this disease. Increased arterial blood pressure is considered life-threatening for the patient as it leads to vascular atherosclerosis.

Purpose of work: In the production of the type of balm used in hypertension on the basis of local plant raw materials, it is necessary to first select the composition of the collection.

Object of study: The purpose of the work are mint, hawthorn, rose hip, cloves, valerian, lemon, dill, thyme, lion's tail, corn.

Experimental part: In the selection of the composition of the batch initially for the production of the type of balm drug in the prevention and effective action of hypertension; peppermint leaf (*Folia Menthae piperitae* L.), medicinal clover flower (*Flores Caléndulae officinális* L.), medicinal valerian root and rhizome (*Rhizomata cum radicibus Valeríanae officinális* L.), fedchenko na'matagi limonata d (fruit). (*Herba Melissa officinális* L.), *Fructus Foeniculum officinális* All, *Herba Achilléae millefólii* L., *Herba Leonúri cardiacae* L., *Maize Styli cum Stigmatis Zeae maydis* L.) were obtained from the raw materials of medicinal native plants. [1] Pharmacologists emphasize that the following indicators are important in the treatment or prevention of the disease with plant raw materials in hypertension: cedative effect, spasmolytic effect, diuretic (diuretic) effect in the elimination of tumors and improving heart function. Taking into account the above indicators, Table 1 below divided the plants into three groups according to their effects.

Table 1

Classification of plants according to their effects

Name of plant raw material	Физиологик таъсирига кўра		
	Sedative	Spasmolytic	Diuretic
Peppermint leaves	+	+	
Medicinal calendula flowers	+	+	+
Valerian root and rhizome	+		
Fedchenko rosehip fruit			+
Medicinal lemon grass	+		
Pharmacy dill fruit	+	+	+
Upper part of common Yarrow	+		
Upper part of simple leonurus	+	+	+

Corn maternal column and mouthpiece			+	
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urgency of the work is to prepare a set of local herbal raw materials used in hypertension, and then to create another type of balm medicine with high efficacy based on this composition.

This set consists of a mixture of different medicinal plant parts; roots and rhizomes, herbs, leaves, flowers and fruits. XI was brought to the same fine level on DF. Moisture content of MH-based aggregates should not exceed 13.0%, total ash content should not exceed 5.0%, ash content insoluble in 10% hydrochloric acid should not exceed 1.0%, not less than 10% of the raw material should be 7 mm sieve, At least 4.0% of the raw material passed through a 0.5 mm sieve, not more than 2.0% of organic compounds and not more than 1.0% of mineral compounds.

Flavonoids, essential oils, polyphenols, organic acids, carotenoids are the main components in the composition. The group of bioactive substances in the raw material helps to determine the qualitative characteristics of the collection. The expiration date of the package is given in Table 3 below. [4]

Table 3

Quality indicators of bioactive substances

Group of bioactive substances	Quality reaction	Analytical result
Flavonoids	With 15% aluminum chloride solution	Сарик-лимон ранг
Dubile substances	Reaction with 5% solution of potassium dichromate	Dark black color
Polyphenols	With iron (III) chloride	Black-green color
Organic acids	With lead acetate	The solution separated from the collection fell into a white precipitate
Carotenoids	Reaction of the chloromorm solution isolated from the sample with antimony (III) chloride	Green-blue is a color that fades quickly

Conclusion. Authenticity and quality indicators were determined on the basis of commodity and chemical analysis of local plant raw materials with antihypertensive effect, sufficient reserves. Research is ongoing.

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