

INVESTIGATION OF ANTI-INFLAMMATORY AND DIURETIC ACTIVITY OF MEDICINAL HERBAL TEA K-1

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The drugs for the treatment of the diseases of urinary system belong to different pharmacological groups. The used medicines of plant origin have action on aetiology and the different stages of pathogenesis but their choice potential is not big and they are prescribed as a component of complex treatment [1].

To create an effective plant medication for the treatment of urinary system diseases the composition of medicinal herbal tea for the prophylaxis and treatment of diseases of kidneys, bladder and urinary tract *K-1* was elaborated. The Ukrainian patents for the utility model [2] and for the invention [3] were obtained.

The medicinal herbal tea contains St. John's wort herb, wild pansy herb, peppermint, tansy flowers, coltsfoot leaf, wild thyme herb, elecampane rhizome and root, sunflower flowers, elder fruits, common heather herb, and lily-of-the-valley leaf.

The herbs of the composition have to provide the diuretic, anti-inflammatory, antimicrobial, antispasmodic, analgesic, and sedative effects. Therefore the first steps of pharmacological studies were to check the anti-inflammatory and diuretic activity.

Study of the anti-inflammatory activity of the object was carried out on the model of acute inflammation namely carrageenan-induced edema of the rat paw. The investigation of medicinal herbal tea in the form of infusion 1:10 for the anti-inflammatory activity have shown that the activity is dosage-dependent and in the dosage of 3 mg/kg the composition has the anti-inflammatory activity of about 49% in relation to the control, which is rather high.

The diuretic activity was studied by the method of Berkhin E.B. The studies of medicinal herbal tea in the form of infusion 1:20 for the diuretic activity have shown that diuretic activity is dosage-dependent and in the dosage of 3 mg/kg the diuretic activity is 25% in relation to the control.

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