

INFLUENCE OF TINCTURE OF HERB OF BIDENS TRIPARTITE ON RAT'S DIURETIC FUNCTION

Taran K.A., Shapoval O.N.

The National University of Pharmacy, Kharkiv, Ukraine

olana666@mail.ru

Herb of bur-marigold (*bidens tripartite*) is interesting for investigation. Plants take up an important place in traditional medicine and scientific research confirmed properties about their use as alternative therapy. *Bidens tripartita*, commonly known as Three-lobe Beggarticks, Three-part Beggarticks, Trifid Bur-marigold, is a flowering plant in the genus *Bidens*, family *Compositae*, subfamily *Asteroideae*. Evaluation of the chemical composition of this plant has revealed the presence of flavonoids, xanthophylls, volatile oil, acetylene and polyacetylene, sterols, auronones, chalcones, caffeine and tannins. Shown in animal experiments that the drugs of herb of bur-marigold a series of hypotensive and sedative effect. Complex flavonoids–polysaccharide drug from herb of bur-marigold succession bile effect on exceeds flamin. The positive effect of herbs tinctures succession by 70% ethanol, with the use of an external ointment containing 2.5% of the extract of the herb of bur-marigold on the basis of a lanolin - petrolatum in patients with psoriasis. Advised of infusions and decoctions of herb of bur-marigold have a diuretic, diaphoretic, choleric, inflammatory, reparative, antimicrobial, regulating of metabolism action. The herb of bur-marigold has been used in folk medicine as a diuretic, sudorific and anti-inflammatory agent. It is also used in the treatment of fevers, skin diseases, bladder and kidney troubles, and as a stimulant of the immunological system.

So, the aim of this work is studying of influence of tincture of herb of *bidens tripartite* on rat's diuretic function because in previous researches it was found that powder of the herb of bur-marigold have membranestabilizing action. So, was studied diuretic action of tincture of herb of *bidens tripartite* in doses 0,1 ml/kg after 2 week administration in spontaneous diuresis and in diuresis with water load.

It was found that tincture of herb of *bidens tripartite* in doses 0,1 ml/kg not changed spontaneous diuresis and increased diuresis with water load comparatively with control animal's group on 13%. It is showed low diuretic action tincture of herb of *bidens tripartite* in doses 0,1 ml/kg after 2 week administration. For the complete characterization of diuretic function tincture of herb of *bidens tripartite* is necessary to study its effect on glomerular filtration rate in the future.

So, the tincture of herb of *bidens tripartite* is promising for further study in order to create a new effective and safe drugs for use in medical practice.