

PHARMACOGNOSTIC STUDY OF RAW MATERIALS OF MEMBERS OF THE FAMILY GERANIACEAE

Kozakova N. Yev., Musienko K. S.

National University of Pharmacy, Kharkiv, Ukraine

nadezhdakozakova95@gmail.com

Introduction. The development and use of preparations based on plant raw materials is promising due to its wide spectrum of pharmacological activities and minimal side effects. Plants of the Geran family (Geraniaceae) are combined into more than 750 species of plants, mainly distributed in areas with temperate and subtropical climates. Distributed in South Africa, Australia and New Zealand. In Ukraine 3 known genera and 32 species. Plants of the genus *Pelargonium* are widespread, often cultivated in the open ground, are grown as houseplants. It is a perennial plants or herbal anist shruble. Has long been known beneficial properties of the plants of this genus. Our attention was drawn to the zonal Geranium (*Pelargonium zonale*), the popular name "cuddles". Favorable way It affects the human nervous system. Essential oil from the flowers improves the work of gastrointestinal tract, liver, pancreas, improves metabolism. In diseases of the cardiovascular system using a tincture of the roots of geranium.

Aim. To conduct a preliminary pharmacognostic studies of the raw materials members of the family Geraniaceae.

Materials and methods. The ground part *Pelargonium zonale* was harvested in the flowering period may-July 2015, underground organs – November 2015, late February-early March 2016.

Results and discussion. On leaves visible concentric circles of dark green or brown colors that share puberulent leaves the zone. Hence the name – zonal geranium. Distinctive morphological feature of this species is the pattern on the petals, it has the shape of a drop. As the fruit ripens the upper part of the ovary elongates, resembling the beak of a crane. Fruit – capsule, which is revealed from the bottom up. In the preliminary study of the chemical composition of geranium zonal revealed that the roots of the plant contain carbohydrates, triterpene saponins, tannins, phenolic compounds. Aboveground part of the plant contains carbohydrates, minerals, phenolics and alkaloids, in the leaves contains essential oil.

Conclusions. Preliminary morphological and chemical analysis of raw materials. The zonal geranium is a promising source of medicinal plant raw material.