PROSPECTS OF STUDYING OF PLANTS OF THE GENUS GLADIOLUS

Nesterenko T. A., Mykhailenko O. A. The National University of Pharmacy, Kharkiv, Ukraine tanyan393@gmail.com

Plants of the genus Gladíolus of Iridaceae family are perennial herbs, with corms. The stalks are straight, single, approximately 50-150 cm tall. Gladíolus with purple flowers grows in damp soil, in bushes (G. imbricatus L.), on marshy meadows (G. paluster Gaud.), in the Crimea, in the Caucasus (G. communis L. и G. segetum Gawl.), on the humidified slopes and rocks, grassy places, at falls, in mountains in the Cape region of South Africa (G. cardinalis, G. blandus, G. angustus L., G. alatus L., G. ceresianus), in the mountains of Turkey and Iran (G. anatolicus Van Thub.). G. palustris Gaudin and G. imbricatus L. etc. grows in Ukraine.

Vitamin C is richly contained by Gladíolus, it has an anti-oxidizing role. Vitamin C has an important role in the synthesis of collagen in the tissues and bones, also being anti-inflammatory, anti-bacterial, anesthetizing and very useful to the immune system.

Preparations of a gladiolus are applied at diseases of kidneys, an allergy, scrofula, against a toothache and gastric diseases, quicken process of release of milk for women and at impotence for men, to children with inguinal hernia. At a result, G. quartinianus was known as cancer deterrent remedy. It includes flavonoids, phenols, tannins, sterola, triterpena.

Chemical composition of gladioluses is studied insufficiently. It is known that leaves contain ascorbic acid (from 546 mg% and more (according to some information to 1700 mg)), starch, saponins, a glycoside of an isoflavones irigenin, fatty oil, sugar, essential oil.

Unstudied chemical composition and a broad resource base of a species and varieties of gladiolus, makes plants of this are promising for genus pharmacognostical studies. We have collected corms in two varieties of gladiolus: variety "Zephyr" (pink), garden selection, variety "Leda" (galanter (hybrid gladiolus and acidentaly) (light Magenta) and one natural type of gladiolus (orange) from Madagascar prepared in autumn, 2014 in N. N. Gryshko National Botanical Garden of the National Academy of Sciences of Ukraine, Kiev (Ukraine). The raw material is dried to air-dry for chemical analysis. At this stage, phytochemical analysis of BAS in corms of gladiolus conducts known qualitative reactions to identify and chromatography on paper.