INVESTIGATION OF THE PERSPECTIVE TYPE OF MEDICINAL RAW MATERIAL IMMUNOMODULATING ACTION

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Introduction. The search for new sources of medicinal plant raw materials has been and remains one of the priorities of pharmacy. The use of plant products is primarily due to their high biological activity and complex effects on the human body. The immune system is a collection of organs, tissues and cells, the work of which is directed directly at protecting the body from various diseases. To date, a number of different plants are known that affect the maintenance of the human immune system. Basically, these are representatives of the families Araliaceae, Asteraceae, Liliaceae, Crassulaceae.

In addition to immunomodulating action, aloe juice from freshly picked leaves, preserved with 95% ethanol and chlorobutanol hydrate, has a laxative, antiinflammatory and bactericidal effect. They are used inside (in gastroenterology) and externally for the treatment of purulent wounds, burns, skin diseases.

Liquid extract Eleutherococcus is used as a stimulant of the central nervous system. Ginseng preparations are effective in diabetes, chronic hypo- and anacid gastritis.

Therefore, medicinal plants have long been used in folk and scientific medicine, such as Echinacea purpurea Echinacea purpurea, Aloe arborescent Aloe arborescens, Eleutherococcus senticosus, Ginseng, Aralia mandshurica are widely used in a number of diseases.

Aim. To search for raw materials of flora plants in Ukraine, which can be used to maintain and restore the immune system of a person.

Materials and methods. The objects of our research were the raw materials of representatives of the families Asteraceae and Crassulaceae.

Results and discussion. In carrying out preliminary studies of the chemical composition of plant raw materials, it was found that the objects contain phenolic substances, in particular flavonoids, phenol-alcohols, as well as polysaccharides, zinc and silicon. These compounds are responsible for the immunostimulatory action of plants.

Conclusions. The obtained data testify to the prospect of in-depth study of plants of the genera Onopordum, Crassula as sources of raw materials positively influencing the human immune system.