

THE ROLE OF MEDICINAL PLANTS IN THE DEVELOPMENT OF FOLK MEDICINE AND OFFICIAL MEDICINE

Z.A.Yusupova

Acting Associate Professor of the Department of Botany, Biotechnology and Ecology, Ferghana State University

The use of herbs in the treatment of people and animals, and the prevention of diseases is the original goal of folk medicine. There are 10-12 thousand species of medicinal plants on Earth. Chemical, pharmacological and medicinal properties of more than 1000 plant species have been investigated. There are 577 species of medicinal plants in Uzbekistan. Of these, 250 species are currently used in scientific medicine. The effect of medicinal plants on the body depends on the amount of compounds in their composition. These compounds accumulate in different amounts in different parts of the plant. The necessary parts of the plant for the preparation of the drug are collected for different periods. For example, leaves and buds are taken in early spring, leaves before or when the plant blooms, when the flowers are fully open when fruits and seeds ripen, and underground organs (roots, rhizomes and onions) are taken in early spring or late autumn.

The acting substances of medicinal plants are alkaloids, various glycosides (anthro glycosides, glycosides affecting the heart, saponins, etc.), flavonoids, coumarins, additives and other mucous substances. Essential oils, vitamins, tar and other compounds can be present. Many plants are made with antibiotics and phytoncides-rich preparations that eliminate microorganisms and viruses. Closely related chemical compounds typical of the same group are found in the same family or order, while some chemical compounds may also be found in plants of different families that are not closely related.

Since ancient times, man has been using wild-growing plants in the treatment of various diseases.

In the current period, the variety of medicinal plants has increased, and folk medicine is enriched with healing plants.

Most of the medicinal plants used in scientific medicine are derived from plants that have been used by people for centuries. Medicinal plants that are used in folk medicine cannot be used in scientific medicine. In Uzbekistan, more common medicinal plants are pomegranate, bitter, almond, medicinal rose, Walnut, jaw-jaw, zubturum, bite, itsigek, lobster, pistachio tree, sage, choyut, cilantro, Shirin, shimmering, Wormwood, yantok, rubella, hookworm, etc. Alkaloids are obtained from bitter - pakhikarnin, garmin from isirik, anabazin from itsigek, galantamine from omonqora, spherophysin from shilirbosh. Pelterin tanat and extract, driven by vomiting, are made from pomegranate peel. Medicinal preparations gulkhairi are used as a phlegm

repellent and emollient, jaw-jaw and lagoxilus drugs as a bleeding suppressor, and pistachio Angus and choyut drugs as a treatment for gastrointestinal diseases. 2 different descriptions of medicinal plants have been adopted:

1. Depending on the composition of the acting substances - alkaloid, glycosidic, essential oil, vitamin, etc;
2. Depending on its pharmacological indicators - sedative, analgesic, sleeping, as well as those that affect the cardiovascular system, stimulate the central nervous system, lower blood pressure and other medicinal plants.

In chemical and pharmaceutical factories in Tashkent, various medicines are prepared from medicinal plants grown and planted in Uzbekistan. For example, psoralen, which is used in the treatment of PES from the root and fruit of oqquray, rutin, which acts on vitamin A dek from the Japanese Sofora hump, galantamine alkaloid from Omani, strophantine from Kendor, simarin, cardiac glycosides and other preparations olina began.

As mentioned above, currently, about 250 plant products are used in medicine. 48% of the products of the medicinal plants shown are made from wild-growing plants, and 30% in the fields where medicinal plants are grown from farms located in different soil climates. The remaining 22% form a "mixed" group, that is, this group is collected from plants, where the product of medicinal plants grows both wild and on plantations. Then it is expected that the Salm of medicinal products made from the "mixed" group of medicinal plants will increase year after year in the amount of the total collected medicinal product.

For what reasons is the product of medicinal plants grown in irrigated areas increasing from the total amount of products prepared annually?

There are many reasons for this, the main ones being:

1. As a result of the growing need for the product of medicinal plants every year, the amount of preparation of their raw materials is also increasing. This, in turn, leads to the fact that a number of medicinal plants are reduced in a large area of growth, as a result of which the preparation of their raw materials is sharply limited or completely stopped.

As a result of the abundant preparation of the ground tops and onions of bozulbang and blackberries, which grow wild in Uzbekistan, their reserves (quantity) have greatly decreased in the place of natural growth. Therefore, at present, these plants are included in the "Red Book" of Uzbekistan. Therefore, the preparation of their natural raw materials at the place of growth has been stopped and is being grown in farm fields and in places where they grow themselves wild. Such examples can be cited in large numbers.

2. As a result of the increased demand for the product of medicinal plants regularly and its non-satisfaction at the expense of wild-growing plants, it is necessary to grow these plants in irrigated regions.

3. Sometimes, when rare medicinal plants are in high demand, but they grow wild, in unfavourable places for collection (for example, belladonna, which grows in the mountainous districts of the Caucasus and Crimea, etc.) or in small quantities, scattered in large areas (for example, medicinal Valeriana, which is common in the European part of Russia, but is rare, etc.), the preparation of Therefore, it is advisable to grow such plants in the fields of farms.

4. The challenge of large-scale preparation of raw materials for wild-growing medicinal plants is the complexity of using agricultural techniques to harvest them. The product of medicinal plants grown on the plantation can be harvested using various mechanisms in favourable conditions and during a period when an impressive amount of chemical biologically active substances is accumulated.

5. If a valuable, medically essential medicinal product is made from plants that grow in tropical or subtropical climates that are not found in our republic, it is advisable to grow these plants on our own whenever possible.

Agrotechnics of medicinal plants to be planted anew are being developed at VILR and its experimental stations, partly in the botanical gardens of the Academy of Sciences (FA), universities and higher educational institutions. In this area, the service of VILR and his experimental stations was large, in which the agrotechnical rules for growing several tropical and subtropical medicinal plants brought from abroad in the climate of the former Union were developed. On farms located in different regions (zones) of our country, the following medicinal plants are grown: xin tree, coca bush, aloe species, orthosiphon, dichroa, large kella, sano (cassia) species, Mexican bangidevona, kalankhoy species, shy mimosa, dark red passiflora, rauvolphia species, pink Catharanthus (bullfinch), round-leaved Stephania, eucalyptus species, spotted ituzum, etc.

Medicinal plants grown in irrigated areas are very different from medicinal plants grown wild, which means that the medicinal plant product grown does not contain a mixture of foreign plants. Medicinal plants grown according to agrotechnical rules will be fertile and rich in biologically active substances.

It is possible to increase the yield of medicinal plants and the amount of biologically active chemical compounds in their composition, which are planted by choosing fertile varieties of medicinal plants, their cross-breeding or obtaining varieties with polyploids (increasing chromosome numbers).

For the reasons mentioned above, the cultivation of some medicinal plants and the preparation of their products cost much more economically than the collection of the product of medicinal plants growing wild. In Uzbekistan, medicinal plants are planted mainly on farms under the Ministry of Agriculture and Water Management, which are located in different soil climatic regions.

For the first time in the Republic of Uzbekistan in 1973, medicinal plants began to be planted on farms in the Bostanlık District of the Tashkent region. Later (in 1978) in

the Pop District of Namangan region, a farm was established where medicinal plants called Ibn Sino were grown. In the fields of this farm, pepper mint, medicinal marmalade (sage), medicinal nail polish, naamatak, bitter wormwood (Armenian), lumpy ituzum, small-flowered mountain ash and other plants were grown. The products collected from them were shipped to Uzbekistan pharmacies and to Chimkent chemical and pharmaceutical plants and other enterprises.

Currently, Special farms for growing medicinal plants have been established in Bukhara, Kashkadarya, Samarkand, Surkhandarya and Tashkent regions.

Under the production associations of "Pharmacy" in almost all regions of the Republic, fields are created that grow medicinal plants, in which the region grows the appropriate plants at the request of pharmacies.