

**A GENERAL IDEA ABOUT POISONOUS BUT USEFUL PLANTS
GROWING IN THE TERRITORY OF KARAKALPAKSTAN**

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Annotation: The demand for medicinal plants is increasing all over the world. Most poisonous plants are medicinal plants. The role of medicinal and poisonous plants in scientific medicine is increasing, and they are widely used in the treatment of various diseases. General description and distribution of medicinal and poisonous plants in Karakalpakstan. Many of these plants can be included in the promising plant species. The next issue is protection of medicinal and poisonous plant species in Karakalpakstan, their rational use and creation of plantations.

Keywords: Medicinal and poisonous plants, useful properties, poisonous organs, protection issues, pharmacology, distribution.

Introduction: Nowadays, many types of plants have medicinal properties, among them there are also poisonous plants. So what are the energizing powers of medicinal plants? What should be considered when using them? These questions can be answered as follows. Plants are natural laboratories with one complex system, actively synthesizing simple to very complex organic, biological substances.

Poisonous plants are plants that contain poisonous substances. Poisonous plants are divided into 2 groups: 1) true poisonous plants - the only sign of a poisonous plant species; 2) conditionally poisonous plants - some plants of this type are poisonous (for example, flax produces cyanide acid in some cases). There are 10,000 species of truly poisonous plants. It grows mainly in subtropical countries. The toxicity of plants is related to the amount of various organic compounds in them - alkaloids, glycosides, glycoalkaloids, essential oils, acids,

lactones, toxins, resinous organic substances. These substances accumulate in various organs of plants. Poisonous plants do not affect all animals equally. For example: belladonna (*Atropa belladonna* L.) and bangidevona (*Datura* L.), which are poisonous to humans, are harmless to rabbits and birds, some species of *Pyrethrum* are harmful to insects, but are harmless to warm-blooded animals; Sea leeks are harmful to rodents and harmless to other animals. Toxic substances accumulate in different growth periods of the plant. Ayiktaban and many other poisonous plants also have medicinal properties (yarrow, yarrow, poppy). Medicines obtained from these are used in the treatment of various diseases.

The number, quantity and quality of biologically active substances in plants are considered to be the most important factors in determining their toxic properties, i.e. protective ability.

Pharmacologically important proteins, fats, essential oils, saponins, flavonoids, active substances are of great importance in the preparation and use of medicines obtained from the organs of poisonous plants. We found it necessary to briefly describe most of these items below.

The main groups of alkaloids and poisonous plants that produce them.

№	Group of alkaloids	Important representatives	Poisonous plants
1	Piridinli, piperidinli	Кониин Никотин Лобелин	Boligolov- <i>Conium</i> Temeki- <i>Nicotiana</i> Lobeliya- <i>Lobelia</i>
2	Pirrolidinli, piperidinli	Гиосциамин Скополамин	Miñdiyhana- <i>Hyoscyamus</i> Skopoliya- <i>Scopolia</i>
3	Pirrolizidinli	Платифиллин Сенецифиллин	Saribas- <i>Senecio</i>
4	Xinolinli	Эхинопсин	Aqqundiz- <i>Echinops</i>
5	Benzilizoxinolinli	Папаверин	Koknari- <i>Papaver</i>
6	Fenantrenizoxinolinli	Морфин Кодеин	Koknari- <i>Papaver</i>
7	Dibenzolizoxinolinli	Даурицин	Lunosemyannik-

			<i>Minispermum</i>
8	Benzofenantrininli	Хелидонин Сангвинарин	Chistotel- <i>Helidonium</i>
9	Indolli	Галантамин Винканин Эрготамин	Voronov байшешегги- Barvinok- <i>Vinca</i> Kuyik bas- <i>Claviceps</i>
10	Imidazolli	Пилокарпин	<i>Pilocarpus</i>
11	Purinli	Кофеин Теофиллин	<i>Shay-Thea</i>
12	Diterpenli	Аконитин Дельсимин	Borets- <i>Aconitum</i>
13	Steroidli	Соланидин Йервин	Kartofel- <i>Solanum</i> Chemeritsa- <i>Veratrum</i>
14	Atsiklik	Эфедрин	<i>Efedra-Ephedra</i>
15	Kolxitsinli	Колхицин	Bezvremennik- <i>Colchicum</i>

Alkaloids are highly toxic substances composed of complex organic compounds with nitrogen-retaining and sterilizing properties, which accumulate in various organs of plants. These substances have a specific physiological effect. Alkaloids such as morphine, papaverine, quinine, caffeine, codeine are used in the production of various drugs. Alkaloids are classified according to their heterocycle. Chemical nature of phytoalexins. They are important in plant immunity. They appeared only in the tissue of higher plants damaged by pathogenic microorganisms. Phytoalexins are antibiotics derived from amino acids found mainly in higher plants and are defined as physiologically active substances that inhibit the growth of microorganisms.

In conclusion, in addition to the plants mentioned above, many flowering plants are poisonous. However, their constituents and active phytotoxins are not yet fully understood, and information about these plants varies from book to book.

Poisonous plants can be used as medicine if used in moderation. Poisoning can occur as a result of excessive use of poisonous but medicinal plants. Therefore, before using medicinal plants, it is necessary to use them with the permission of a specialist in that field and pay due attention to them.

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