

Useful Features and Usage Methods of the Herbs Included into the Astragalus Species

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Among the biological recourses the herbs are not very large according to the total volume. But they take very important place in accordance with the social importance. There is a great need to the raw herbs. About 40 % of the remedies that used in the Local Healthcare are got from the herbs. Almost all of these remedies are of herbal origin. Mostly they are not got synthetically and not substituted by chemicals (1). Development of the Medical Science on Herbs has been directed to the intensive investigations in this field and to the preparation of medicines from the natural raw materials.

We know that all herbal remedies that used in the modern medicine have been borrowed from the Folk Medicine. Paying special attention to such kind of information increases investigation perspectives of the herbs.

Studying the Folk Medicine experience is one of the leading ways of investigating the new herbs. The chemical composition of the substances in the Astragals is very different. The following substances as alkaloids, flavanoids, caponizes, free substance pigment, astringent substance, cumarins, organic acids, vitamins, macro and micro elements are included into this composition.

There have been determined triterpenoids, cannons, alkaloids, flavanoids, izopamiltin, aliening, astraciceran in the *Astragalus cicer* species composition.

They use it for treatment of heart and gastro-intestine diseases in Byelorussia. It creates hypotensit and soothing tachycarolia, irritates the breath, creates cholinolitic and hypocholesterinemic quality, reduces the number of lipoproteins in blood, and reduces the adrenalin and the noradrenalin in the tissues, active as bactericide.

There are carbohydrates, polysaccharides, starch, cellulose, triterpenoids, glisirzizin and dazinantogenin, flavanoids, izopamnetin, astragalozid, narcissi, overselling, kemferol,

kumarins, ceiling and dyeing-stuffs, and also Fe, Ca, Al, P, Na, Mg, St, Ba, Mo, Mn, V, microelements, and also selenium in the over-ground parts of the *A. dasyanthus*. *Astragalus* species syrup is used as an effective remedy on chronic heart failure, stenocardia, on the beginning stage of hyperbolic, edemas, vascular insufficiency of kidneys (severe and chronic nephritis). It increases the urine secretion, useful on toxic injuries of the liver and has sedative antioxidant effect. If we pay attention to the features of influence mechanism, rich chemical composition, existence of some microelements and glicisene, less toxic influence; it may be successfully used in dermatology, eczema, neurodermits, scleroderma, psoriasis, vitiliga and baldness. In Folk Medicine Astragal *A. dasyanthys* is used on burns, rheumatic aches on the joints, neurotic diseases, phlegm clearing, sudorific and as a remedy to stop bleeding. There are followings in the composition of the *A. falcatus* – triterpenoids, flavanoids, robinin (about 2,33%), kemferol, fenolcarbon acids, sialitols, dust, kumarins, scooping, skimming, alkaloids (0,03%) free component combinations: 3-nitro-1 propolan, 3 nitro – propone acid, mizetoxin, shibarjan, kriatin, heptagon, vitamin C, macro-elements (mg/g), K-16,10, Ca -18,80, Mg-4,00, Fe-0.14, microelements (mkg/g) Mn-0,25, Cu-0,20, Zn-0,20, Co-0,13, Cr-0,004, Al-0,006, Ba-0,73, Se-5,63, Ni-0,09, Cr-1,61, Ph-0,07, I-0,06, B-11,0.

In the Medical Science the *A. falcatus* leaves and flowers are used as raw material. On the basis of Robinin in its composition some remedies are prepared for treatment of several diseases of kidneys. It increases nitrogen secretion function of the kidneys and reduces the amount of nitrogen, urine essence and kriatin in blood. It is used for complex treatment of chronic kidney diseases. There are carbohydrates, the substances close to them by composition, mannose, dextrose, (d-glucose) caponizes, alkaloids, nitrogen essence compositions, 3-nitropropion acid, flavanoids 0,66%, triterpenoids, flavanoids, vitamin C in the over-ground composition of the *A. glycyphyllos*. It is used as purgative substance in the Caucasus. They prepare remedies that have lactones features. There are triterpenoid glisirizin and 14-16% saponines in the under-ground parts of them. Remedies of this type are used for treatment of the neurotic diseases in the regions along the Volga River, Russia. They use these remedies as diuretic, purgative, phlegm clearing, as well as for treatment of scrofulous (scrofula-xanezir), dermatitis, dermatology, rheumatism in the Ukraine. In France these remedies are used as purgative, diuretic and air clearing means. In Byelorussia the tincture of the over-ground parts is used for treatment of uteropfoz, gastric diseases, dysentery, dermafomicoses of the skull skin. In the Karpats the remedies are used for treatment of kidney diseases as diuretic, other diseases of kidneys and urethras, phlegm clearing, severe respiratory diseases, rheumatism, artragias, diarrhea, derma hits, in

gynecology as birth stimulator means. In Bulgaria Astragal tincture is used for treatment of hypertonic, gastroenteritis, meteorizm, diarrhea, as lactose remedy, inhaler, and varicose dermatitis. Extract of the leaves is used against fermentation. Leaves and seeds are used as purgative remedies for kidney-stones, oliguria, scrobulyoses, and dermatitis.

Flowers, leaves and roots of some *Astragalus* species are widely used in the Folk Medicine. It increases immunity and used for treatment of lungs and spleen. It is used on breathing problems, blood circulation, diarrhea, weakness, and sweating, poor appetite. In the traditional Chinese Medicine these remedies are used for treatment of arthritis and neurotic diseases. It regulates blood saccharine and hormonal system reduces body inflammatory. The herb gives effect at least in six weeks and helps on formation of red blood cells. Also used on chill and flu, increases blood circulation and heart function, useful on cardio-vascular diseases, reduces blood coagulation, diuretic, prevents albumen gathering in urine, and has prostate protective features. Remedies made from *Astragalus* species are used for the patients who get chemical-therapy and radio-therapy. It increases the positive influence of treatment and reduces its negative influence. It is also used on AIDS.

As tonic remedy for the adults, the herbs protect the cells and reduce the signs of old age. It strengthens the digestion and brain function. Used for viral infections, diabetes, weariness, ulcer, insomnia, disorder of sexual function, propagate problems.

Astragalus roots are used in tablet, capsule and syrup forms. Also we can eat them or brew the dried roots. The roots may be used as spices. You may take 3 glasses of boiled water, add 3 grams of dried roots and brew 5 minutes. The mixture may be used 2-3 times a day. The roots are mixed with honey and prepared ointment for the external use on tardy recovering ulcers. *Astragalus* raises the temperature. So it must be used carefully. Especially it must be gathered from the reliable places, because some *Astragalus* species are toxic. You must use only the roots of the herbs. People who have gastric problems may have allergic reactions. But if you use it attentively you may get good result. If we use it together with other herbs, we'll get better results. Only it must not be used together with the herbs that prevent blood coagulation. It is used for treatment of cardiovascular diseases in China. *Astragalus* reduces the blood pressure and improves blood circulation, helps to prevent infarct. Also helps to clean up unnecessary water of the body and it helps to reduce the blood pressure.

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