# REVIPLANT - chemo and radio protector of a new generation

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## Description

### Chemo-and radio-protector of a NEW GENERATION

One of the main methods of cancer treatment is chemo radiotherapy, together with the use of products containing toxic substances and radiation to kill cancer cells and prevent further progression. However, during chemotherapy treatment healthy cells suffer as well, which leads to side effects, greatly worsen the patient’s condition. In addition, the complications associated with chemotherapy alone can be life threatening. An important challenge for modern medicine is the development of drugs and supplements that can protect healthy cells and tissues from the effects of damaging factors (chemotherapy and radiotherapy) and increase the effectiveness and tolerability of treatment. One of such supplements is REVIPLANT®.

This is a complex supplement with detoxifying, antioxidant, hepatoprotective and radio protective properties. It protects healthy cells which are not involved in tumor growth. Based on the radiotherapy research the product shows hepatoprotective properties.

Effects of the REVIPLANT supplement are determined by the properties of its constituent of amino acids: leucine, valine, arginine, isoleucine, and taurine to ensure activation of acidic processes in the liver, hepatocyte membrane stabilization, normalization of mitochondrial function, the formation of free amino acids and their derivatives, as well as protein synthesis in the liver. The amino acid complex has stimulating effect on the body-increasing stamina, promoting recovery from the effects of radiation and toxic substances. In addition, amino acids are the starting material for the synthesis of proteins and endogenous bioregulators that allows to restore metabolism.

One of the most common effects of chemotherapy is the development of immunodeficiency. Significant weakening of the immune system deprives the body from the ability to deal independently with the tumor cells, which creates conditions for their activity. REVIPLANT
induces a natural, genetically programmed process of destroying diseased cells, which ultimately enhances the effectiveness of chemo-therapy.

**Directions**

Directions: Adults and children over 14 years old: 1 teaspoon (5.25 g), 2 times a day with meals. Course duration is 1 month. Possible to repeat a course from 3 to 4 times a year.

**Ingredients**

Water, fructose, concentrated rose juice, amino acids, valine, arginine, taurine, leucine, isoleucine, extracts of: artichoke, rosehip, burdock, lewisia, fungus, citric acid, sodium benzoate, potassium sorbate.

Recommended as a source of valine and taurine.

2 teaspoons (10.5 g) of dietary supplement contains at least:

- Valine - 420 mg, which is 16.8% *
- Taurine - 73.5 mg, which is 18.4% *

* From an adequate level of consumption per day.

**Recommended application:**

- prevention of secondary immunodeficiencies caused by radiation and chemical factors,
- increased resistance to poisoning, infections, radiation,
- to improve the well-being of cancer patients,
- correction of metabolic processes, reducing pain threshold,
- improved tolerability to chemoradiotherapy,
- to increase the effectiveness of treatment of cancer patients.

**Main components**

**Isoleucine**

One of the essential amino acids needed for the synthesis of hemoglobin. Also it stabilizes and regulates blood sugar and energy processes. Isoleucine metabolism occurs in muscle tissue. Isoleucine - one of the three branched amino acids. These amino acids are very necessary to the athletes, as they increase endurance, and promote recovery of muscle tissue. Isoleucine is needed in many mental illnesses; deficiency of this amino acid leads to symptoms similar to hypoglycemia.

**Leucine**

Essential amino acids refers to the three branched amino acids. Acting together, they protect muscle tissue and are the source of energy, as well as contribute to the restoration of bone, skin, muscle, so their intake is often recommended in the recovery period after injuries and operations. Leucine also slightly lowers the level of blood sugar and stimulates
the release of growth hormone.

Valine

Essential amino acids, has a stimulating effect. Valine is necessary for metabolism in muscle repair damaged tissue and to maintain the metabolic processes of the nervous system.

Arginine

Arginine inhibits the growth of tumors, including cancer, by stimulating the immune system. It increases the activity and increases the size of the thymus gland, which produces T-lymphocytes. In this regard, arginine is useful for people suffering from HIV-infection and malignancies. It is also used in chronic liver diseases. Seminal fluid contains arginine; it is sometimes used in the treatment of infertility in men. The connective tissue and the skin is also a large number of arginine, thus it is effective for various injuries. Arginine - an important component of metabolism in muscle tissue. It helps to maintain an optimal nitrogen balance in the body have been involved in the transport and disposal of excess nitrogen in the body. Arginine is a part of many enzymes and hormones. It stimulates the production of insulin by the pancreas as component vasopressin (pituitary hormone), and makes synthesis of growth hormone.

Taurine

Taurine is found in high concentration in heart muscle, white blood cells, skeletal muscle, central nervous system. It is involved in the synthesis of many other amino acids, as well as a part of the main component of bile, which is necessary for fat digestion, absorption of fat-soluble vitamins and to maintain normal levels of cholesterol. Therefore, taurine useful in atherosclerosis, edema, heart disease, hypertension and hypoglycemia. Taurine is essential for normal metabolism of sodium, potassium, calcium and magnesium. It prevents the excretion of potassium from the heart muscle and therefore helps to prevent certain heart rhythm disorders. Taurine has a protective effect on the brain, especially in the dehydration. It is used in the treatment of anxiety and excitation, epilepsy, hyperactivity, seizures.

Rosehip

Rosehip - a whole laboratory, battery health. Vitamin C in them than in the currants and lemon. There are vitamins B, K, P, carotene, sugars, tannins, organic acids, pectin, trace elements. The seeds contain vitamin E. The preparations of this natural multivitamin fruit concentrate is often used for the prevention and treatment of scurvy, night blindness and other vitamin deficiency, anemia, chlorosis, atherosclerosis, hypertension, diseases of the digestive system, diabetes, bleeding. Rose hips cinnamon are also used to improve blood circulation in the blood vessels of the brain, as well as myocardial and heart disease.

Artichoke

It is a powerful hepatoprotector. It contains active substances protect liver cells from the effects of toxins (including nitro compounds, alkaloids, heavy metals, alcohol). It has a detoxifying effect on the liver parenchyma and renal therapy with antibiotics. Artichoke extract has choleretic effect, increases the amount of released bile secretion and bile salts. It helps digestion, prevents the development of cholecystitis, reduces flatulence, and normalizes the activity of the intestine. Artichoke extract has a diuretic effect, reduces the level of nitrogen compounds in the blood.
**Burdock**

One of the most favorite plants used in folk medicine. Burdock root is used as a diuretic, diaphoretic and stimulating metabolism means to treat gout, kidney stones in a broth. Infusions and decoctions of burdock root is used for the treatment of gastritis, gastric ulcers and duodenal ulcers, ulcers, boils, as well as the detoxification and blood-purifying agent.

There is evidence that the drugs are effective in the treatment of burdock malignancies. The contents of the mucus and tannins justifies the use of tea or tincture in diseases of the stomach, they have a slight diuretic effect and are indicated for rheumatism and gout. In Russian folk medicine, the root is broad and versatile applications: for renal stone disease, diabetes, gout and rheumatism, dropsy, hemorrhoids, rickets and scrofula, abrasions, chronic eczema, constipation, as well as in cases of poisoning with mercury preparations and bitten by poisonous animals. A decoction of burdock root is also used in sexually transmitted diseases, aching joints. In the Bulgarian folk medicine, burdock root is used as a diuretic and improves metabolism means, with kidney stones and bladder, gastritis and gastric ulcer.

**Leuzea**

In folk medicine in Siberia Leuzea (Maral root) is known as the plant "man rises from fourteen diseases and pours his youth.” The first information about the healing properties levzei belong to the second half of the XIX century. First introduced in Europe in the London botanical garden in 1816. In Belarus, it began to explore in 1955. The biological activity of the plant is related mainly to the content of ecdysterone, which accumulates the greatest number at the beginning of the growing season, the minimum in the flowering stage. Leuzea has psycho-stimulant and adaptogenic properties, improves circulation, has a vasodilating effect, contributing to the regulation of blood pressure, increased heart rate. Furthermore, Leuzea possesses antidiabetic properties, probably due to the increased use of glucose operating the tissues. Leuzea also used in functional disorders of the nervous system, reduced capacity, mental fatigue and loss of strength, chronic alcoholism, impotence, for the regulation of blood pressure. In folk medicine Leuzea used as infusions, decoctions, tinctures vodka as a stimulant at the breakdown, insomnia, fatigue, after a serious illness, impotence, excessive irritability.

**Cranberry**

The cranberry contains 4-5% sucrose (mainly glucose and fructose). Of the organic acids, there are malic, citric and benzoic. This benzoic acid is a natural preservative, and allows you to save cranberries without any processing, only the Gulf of boiling water. Identified as pectin and tannins, a lot of macro-and micronutrients. Berries and cranberry extract is used as an antipyretic, refreshing and antiscorbutic, as well as to enhance the action of antibiotics and sulfonamides. Cranberry enhances the secretion of the glands of the gastrointestinal tract, is used for the treatment of gastritis with decreased secretion. Cranberries are used as febrifuge, for beriberi, inflammatory diseases, to lower the temperature and quench your thirst. Drinking cranberry improves appetite and digestion. Increases the production of gastric juice and pancreatic juice. This leads to recovery of gastritis with low acidity of gastric juice and pancreatic inflammation. Cranberries also have a diuretic and bactericidal effect and are useful in pyelonephritis. Cranberry has a toning and refreshing effect, improves mental and physical abilities. It also is a good bactericide.

Cranberry juice retards the growth and development of Staphylococcus aureus, bacillus anthracis, Proteus and E. coli. It contains a large number of ursulovoy acid, which is
genetically and structurally similar to physiologically important hormones. She has the ability to delay the development of aseptic inflammation. Use of cranberry juice with antibiotics increases their activity, enhancing the absorption of drugs. Acceptance of cranberry juice increases the acidity of the urine, has antimicrobial effect on pathogenic flora that occurs when a urinary tract infection.

Chaga

Its medicinal properties have been known for a long time; methods of using it as a drug have been described in the works of the famous medieval physician Abu Ali Ibn Sina (Avicenna). Birch fungus diseases treated with the stomach and intestines, liver and kidneys, lung cancer, diseases of male and female sexual organs, boils, rubbed a decoction of herbs with chagoy aching joints. Chagoy treated for gastrointestinal diseases and malignant tumors. Doctors note that in areas where drinking decoctions and infusions of fungus, less sick with cancer. It is an ancient therapeutic agent is recommended especially in cases where surgery is contraindicated, chemotherapy and radiation therapy. For example, in 1858 the doctor E. froben has cured seriously ill with cancer of the parotid gland broth of the fungus. In 1862, A. Frucht has cured tumors lip extends to the submandibular gland, a decoction of the fungus. The doctor prescribed the patient a thick broth of the fungus inside and compresses using the same means. The treatment, which lasted several months, ended with the complete disappearance of the tumor. It should be noted that in many patients due to the use of fungus slows the development of tumors. Shortly thereafter, the wonderful properties of the fungus interested doctors of official medicine. In 1864 birch mushroom researched Lyudvigovich Dragendorff George, professor of pharmacy at the University of Dorpat, and found no special substances, which, in his opinion, could cure cancer. Studies conducted by the 1st Leningrad Medical Institute. IP Pavlova 70s. XX century., Proved that Chaga improves redox processes in tissues, has a restorative and tonic effect on the central nervous system, relieves a variety of acute and normalizes acid and fermentoobrazuyuschuyu function of the stomach and duodenum, restores the function of the nervous system. Studies on the properties of birch fungus continued Professor PA Akimov, IK Bulatov; as a result of these studies, an extract of birch fungus was introduced into medical practice. All preparations based on birch fungus, used for treatment of cancer in an adjuvant

Form release:

200 ml

Production

Scientific and Production Center of Revitalization and Health

St. Petersburg University of Bioregulation and Gerontology