

UNIREGEN

We, signed below, recommend the product Imuregen containing important bio-active substances. Based on long-term experimental and clinical tests, it was confirmed that the product Imuregen has positive effects on the total regeneration of the organism and the immune system. It is especially suitable for people under extreme physical and/or mental stress. It fosters restoration of liver tissue and mucous membranes of digestive and respiratory system and it also provides protection from viral and bacterial infections (Hepatitis, leptospirosis, Weil's disease, salmonellae, typhoid diseases).

For the above stated reasons the product Imuregen is especially suitable for personnel under stress in extreme conditions, as in rescue and salvage operations and decontamination work in flood-affected regions.

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Ústí nad Labem, 28 August 2002

(This above statement was released during summer 2002 as a respond to the extreme flooding in Europe)

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Hitherto Conclusions from Repeated Testing of the Preparation IMUN +

Supplementation of human nutrition with immunity-enhancing substances can be very beneficial, because our human bodies have become imbalanced. The overwhelming cause of this imbalance is poor lifestyle and environment, pollution, stress, nutritional deficiencies, toxicity and infections, and they all erode our health and lead to a decrease in our immune system effectiveness. The reduction of immunity causes various diseases of viral, bacterial and metabolic character. The only solution is strengthening – balancing – of the organism stamina – its immunity. Optimal solution can be offered by the product IMUN+, made by company Uniregen.

IMUN +

Food concentrate with efficient component of **nucleotides**

IMUN + is a natural complex of essential amino acids, nucleotides, oligo-peptides and trace elements. These substances in their complex are able to activate, and positively increase the immune system of a human. There are able to harmonise the organism stamina, from the point of view of immuno-modulation of cell and hormonal part of the immunity.

Bio-complex of active substances creating efficient regeneration and stimulation dietetics.

The food supplement **IMUN +** ranks among modern preparations produced on the purely natural basis. It is designed for adults and children from 1 year of age and it does not contain alcohol or any inorganic chemical substances. It is particularly suitable for diabetics and for athletes supporting the muscle mass growth and improving regeneration of strength/endurance, during exercise or training.

IMUN + is one of the most efficient preparations fighting the flu.

IMUN + offers new approach to solving the fight against viral diseases by using the application of highly efficient substances – selected amino acids, nucleotides and other essential substances used by the organism to increase it's immunity.

Using of **IMUN +** will boost natural resistance to illness and disease and will naturally improve immune system capacity. People will avoid light flu as well as possible negative effects on vital organs – heart, lungs or kidneys – and consequent danger for the whole organism.

- **Composition**

This purely natural product was developed at the beginning of the 50's under management of a popular pharmacist Dr. Rakús in Czech laboratories. It contains a balanced complex of the most efficient plant and animal substances. Essential amino acids, nucleotides, proteins, peptides, oligo peptides, organic salts and vitamins in natural relations increase the power potential of human cells, which can stimulate the immune system.

- **Use**

IMUN + is absorbed in the digestive system in an active form – the organism absorbs only the substances it needs for managing the performance, to avoid stress and civilisation diseases and for improvement of metabolic process during a disease. The product **IMUN +** does not contain sugar and it is suitable even for diabetics. It can be used for an unlimited time period without any risk of addiction, or negative side effects.

- **Effects**

IMUN + reduces chronic fatigue, eliminates feelings of weakness and depressions, speeds up healing and regeneration and has positive effects on the digestive system, kidney and liver function.

IMUN + is suitable for healthy people as well as for people under mental or health stress, in any age groups.

Healthy individuals can use **IMUN +** in case of fatigue and as prevention of stress situations. It reduces the risk of the organism damage by civilisation diseases.

When used by athletes, it increases the muscle growth and positively effects the power metabolism by arranging several ways of power supply to cells. It improves regeneration of strength/stamina.

When used by ill people, it creates a base for speeding up the process of healing, reduces the time of regeneration and thus improves the efficiency of treatment. It is suitable as a prevention of arteriosclerosis and it is one of the basic substances in the methodology of JUVENOLOGY (postponement of ageing and keeping and improvement of active life from the mental, physical and sexual point of view). It is suitable for both acute and chronic illness. Application of **IMUN +** is beneficial as prevention of the illness as it eliminates excessive deviations in the organism homeostasis and even long-term chronic diseases can be significantly improved or even cured.

IMUN + does not have any harmful side effects.

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The basic biologically active substances of **IMUN +** are:

Nucleotides

- the synthesis of nucleotides in liver is very demanding from the point of view of energy and that is why the intake of exogenous nucleotides in the periods of increased demand (after surgery, traumas, burns or system diseases) is necessary.
- Period of growth of organism up to the adult age, significantly increase the demands of the organism towards the consumption of nucleotides. They are applied also in induction of anti-substance response and they non-specifically increase the production of immuno-globulins, mainly of the IgG and IgM class.
- experiments proved, that nucleotides increase resistance to infection with *Staphylococcus pyogenea* and *Candida albicans*, they also increase production of interleucine IL2 and increase functions of microfages.
- they significantly stimulate the creation of lymphocytes, which are a base of immunity.
- they improve the utilisation of vitamins and trace elements.

Amino acids

- some of them directly effect immunity
- arginine and glutamine have immuno-regulation functions and they cause an increase of proliferation of lymphocytes and an increase of some sub-populations of lymphocytes.

Iron

- necessary for arrangement of cells proliferation and bio-synthesis of ribonucleotides to deoxiribonucleotides, the basic elements of DNA.
- deficit of iron leads to reduction of dermal cell response, reduction of lymphocytes proliferation, reduction of bactericide capacity, it also reduces the anti-substance response, it increases the sensitivity towards infections.

Proved facts related to the preparation IMUN +

Clinical tests proved a significant strengthening of cell immunity, mainly increase of T-lymphocytes and their activity, induction of mucous immunity response.

Application of the IMUN+ has shown that there were significantly increased values of lysozyme and increased values of many proteins.

The application of the IMUN+ significantly reduced the increase of the C-reactive protein and the orosomucoid, which are the symptoms of inflammatory processes.

The top athletes and sport teams have shown an improvement of power/strength parameters and training capacity and further more, there was also proved the protective influence on liver parenchyma from the effects of physical load.

When IMUN+ was applied to the patients with hyperlipidemia, there was noticed a significant decrease of the cholesterol level.

There was proved a significant reduction of sickness in work collectives in the normal season and during seasonal viral diseases.

The use of IMUN+ positively effects the health conditions of children, mainly in regions with extremely damaged environment.

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Evaluation of the IMUN + product in relation to cellular part of immunity

Prof. MUDr. J. Kocián, DrSc., 1st Clinic of Internal Diseases IPZV – FNT Prague 4

In our clinic we tested products with high contents of polynucleotides – i.e. substances contained in cytotlasts of all and any cells. As soon as the 3rd day from the start of the application of products, there was an increase in the numbers of white blood cells responsible for protection of the body against infections – the increase fluently continues up to the 28th days when the numbers of cells reach as much as 200% of the original values.

It was mainly the **Imun +** preparation that proved well.

Evaluation of the IMUN + product in relation to infections of the upper and lower respiratory system, tonsillitis and flu.

ZORA Olomouc, MUDr. H. Černochová

The product Imuregen was given to a selected group of employees in the ZORA Olomouc plant during the period of increase of viral diseases. The employees were in the age of 19 – 64 years. The sickness leave representing a comparative group was significantly lower in employees using Imuregen. Serving the preparation – mainly in large work teams with high physical or mental load – is efficient and economical in the periods of an increased occurrence of respiration viral and bacterial diseases.

TT Viadrus ŽDB a.s., MUDr. Masařek

The product Imuregen was daily given to a selected group of employees of the foundry in the TT Viadrus ŽDB, a.s. plant.

For evaluation of efficiency of the Imuregen: comparison has shown decrease in the illness rate of the upper respiratory tract by 47%.

MUDr. Štaket from the department of work and medical care:

He recommends **IMUN +** product to be used mainly for professions:

- under mental stress (managers, drivers)
- working in the environment with exposure to carcinogens chemical
- working under the risk of ionising radiation
- working with organic solvents
- working in physically demanding jobs
- working in shifts work

Immunological Findings in Groups of Children after Compensation Measures

National Institute of Health – department of Immunology in Ústí nad Labem

Doc. MUDr. J. Richter, CSc., MUDr. Ladislav Pelech

200 children permanently living in a region with high degree of environmental pollution spent 14 days in a region with healthy environment and they were given product Imuregen. As a result, their parameters of secretion immunity have significantly improved. Decrease of albumin values signals a significant reduction of the inflammable irritation of the respiration system. There were also significantly reduced the specific antibodies IgE of the respiration type of allergy. On the basis of hitherto experience, just the stay in the region with high-quality air positively influences 80 – 90% of people for a period lasting for 2 – 3 months. This period can be significantly prolonged by using the product Imuregen.

Findings from children supplemented with the IMUN + product.

KHS Ústí nad Labem, OHS Ústí nad Labem, OHS Litoměřice
Doc. MUDr. J. Richter, Dr. S. Richterová, Dr. T. Kolinová

Group of 35 children in the age of 11 – 15 years, who were given product Imuregen for the period of 1 month, was observed. Statistically was proved a significant reduction of inflammable reactions, there was increase of the values of secretion immunity and there was normalisation of many values of biologically important proteins, mainly the transferine.

Monitoring the Effects of the IMUN + product in a group of 53 persons in VÚ Kbely

Clinical Laboratory ÚVN Prague – Strešovice, Dr. M. Švec

The product Imuregen was continually given to the group of 53 people aged 20 – 50 years, for a period of 2 months. Comparison of laboratory tests was done for the evaluation of cellular immunity before application of Imuregen to group, and after termination of Imuregen product use. The Rosette test proved a significant increase of T – lymphocytes and the test of lymphoblast transformation proved a significant increase of their activity.

Preliminary Findings in Population of Seniors supplemented with product IMUN+.

KHS Ústí nad labem, OHS Litoměřice, OHS Chomutov
Doc. MUDr. J. Richter, D. Jílek, V. král, A. Vorderwinker, Dr. T. Kolinová, M. Hanusová

Total of 151 seniors from nursing homes were monitored – seniors received a dose of Imuregen for a period of 3 months. The values of IgG and IgE globins which prove optimisation of the immunity system regulation, were normalised. Significant decrease of the C-reactive protein proves the significant anti-inflammation effects of the product Imuregen. Normalisation of the transferine values confirms the positive adjustment of the iron metabolism. There was also a significant decrease of the SP3 protein values, which are indicators of hormonal dysfunction but also possibly of tumours activity or inflammations. The dynamics of changes of the pre-albumin values confirms significant improvement of nutrition status and an improvement of detoxification processes.

Verification of Effects of IMUN + in the Sphere of Top-Performance Sports

Administration of Top-Performance Sports – Prague, RNDr. P. Fořt, CSc.

The extensive study of power demanding sports and endurance types sports confirmed highly positive effects of the product Imuregen mainly in the following spheres:

1. significant improvement of power/strength/stamina parameters, improvement of training capacities
2. significant reduction of sickness rates
3. improvement of the regeneration course
4. protective influence on liver parenchyma from the effects of physical load
5. stimulation of proteo-synthesis

Use of IMUN + in Patients with Elective Surgery

Department of Surgery of the Hospital Na Homolce, OKBHI Hospital Na Homolce, Institute of Experimental Medicine, Academy of Science Czech Republic.

MUDr. M. Hladký, MUDr. V. Táborský, MUDr. J. Červinka, MUDr. M. Průcha, MUDr. M. Dostál

The product Imuregen was given to 24 patients in the dose of 2x1 tablet/day 7 days before, and 30 days after surgery. The patients showed a statistically significant decrease of activity values of liver amino-transfers that were significantly pathological at some patients before starting the application of Imuregen. Furthermore, there was statistically significant decrease of the transferine values, which proves positive restoration effects of Imuregen during inflammation. There was also proven a modulation effect of Imuregen in the sphere of cellular immunity due to statistic increase of the amount of CD 3+ lymphocytes in comparison with the control group. The results confirm suitability of Imuregen use as a non-specific supporting product for patients, where it can be possible to expect immunodeficiency in the sphere of cell-mediated immunity.

Clinical Testing of the IMUN + Product at the Surgery Department

Hospital in Mladá Boleslav

MUDr. A. Skřivánek

Patients with so-called unhealable defects were selected for clinical tests – i.e. patients with poorly healing fractures, decubites and patients with varicose ulcers or with burns of 3rd degree. After 3 months of serving Imuregen, all the patients showed a significant improvement. While the healing time – i.e. the reduction of the term of treatment – reached 7 to 10 days.

Immunological Findings and dynamics of Proteins after Application of IMUN +

Regional Hygienic Station in Ústí nad Labem

DOC. MUDr. J. Richter, CSc.

Patients aged 39 – 58 years with diagnoses of non-plasmatic diseases were given Imuregen in the dose of 2 mg/day for the period of 25 days. Chemical examinations before and after the therapy proved statistically significant increase of pre-albumine values, normalisation of transferine values and values of C – reactive protein of alpha I – antitripsyne. There was also proved an increase in the number of leucocytes, adjustment of distribution of lymphocyte population and normalisation of the share of terminal lymphocytes.