



## **Zeolite: Powerful New Supplement from Volcanic Rock Detoxifies Heavy Metals, Restores Alkaline pH, Stops Diarrhea, Reduces Hepatitis Symptoms, Controls Some Cancers**

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### **WHAT IS ZEOLITE?**

It is a microporous inorganic mineral formed from volcanic ash and sea salt over millions of years. There are specialized deposits of zeolite the world over. They vary by their composition of compounds. There are three main kinds, fibrous, leafy or crystalline zeolite. Medical use is from crystalline zeolite that contains high quantities of the mineral clinoptilolite. The structure of clinoptilolite consists of silicon oxides and aluminosilicates, with a silicon to aluminum ratio of 4 to 1 in clinoptilolite. Although it consists primarily of silicon, like sand and some clays, clinoptilolite differs due to its hard structure.

### **WHAT MAKES IT SO VALUABLE?**

It's extremely hard, microporous, honeycomb type of structure is permeated by ducts and cavities throughout. These caves or channels are openings where either minerals or heavy metals can bind to. The silicon building block is electrically neutral, but the aluminum building block carries a negative charge, creating charged sites throughout the entire crystal structure. The balancing process that works to maintain electroneutrality in the clinoptilolite, attracts positive minerals such as calcium, magnesium, potassium, sodium and iron. These common positive cations can easily be displaced by heavy metals such as cadmium, mercury, nickel, and arsenic and be removed from the body.

Zeolite has a history of industrial and veterinary use, including water purification, air filters, in animal feed to reduce the production of ammonia and increase the nutritive effect, and in cat litter and animal stalls to reduce odor. It has even been put in cigarette filters to reduce nicotine and tar. A new use includes combining it with cotton to make a microbial, deodorant material. NASA is researching the development of a zeolite-hydrogen-gas tank for hydrogen-fuel based cars.

### **MEDICAL USES OF ZEOLITE:**

- \*Stops acute diarrhea from food poisoning
- \*Binds mycotoxins, forming stable complexes
- \*Raises antioxidant levels in the body
- \*Binds with free radicals in the body
- \*Helps alkalize the pH
- \*Stops external bleeding
- \*Binds radioactive compounds
- \*Reduces muscle pain from lactic acid
- \*Reduces fungal foot infections
- \*Reduces hangovers
- \*In some canine cancers, reduces tumors, restores well-being, prolongs life
- \*Reduces side effects of chemotherapy/radiation
- \*Inactivates the effects of Hepatitis viruses
- \*Stabilizes & regulates immune system
- \*In some human cancers (those that respond to interferons and interleukins: melanoma, renal cell, lung, astrocytoma), patients may experience prolongation of survival, decreases in tumors, or even complete, long-term remission.

### **PRELIMINARY RESEARCH:**

The Ruder Boskovic Institute in Croatia was instrumental in carrying out the initial pre-clinical testing of zeolite. The zeolite used for medical purposes was processed by a special

micronization machine (TMAZ) that increased the surface area several times over, and ground the material into various sized particles, with about 15% being nano-particles (as small as 100 nm).

After many months of testing for any toxic effect on mice and rats, no toxic effects were found.

No dissolved aluminum was found in the solubility studies of model stomach juice, hopefully allaying the fears of aluminum toxicity from this product.

Many other research studies in Croatia, Austria and Germany have reported positive effects on many different health conditions.

The researchers found the zeolite given in capsule form to be beneficial for various types of cancer, some viral infections, Crohn's disease, early MS patients, and some other neurological diseases.

Researchers worked at determining exactly how the micronized zeolite with its high proportion of nano-particles, affected the progress of these various diseases, especially cancer.

Besides shifting the body toward an alkaline state, reducing the high acid environment around cancer cells, increasing the antioxidant activity, reducing free radicals, research studies also revealed that in tissue cultures it demonstrated anti-cancer activity by induction of expression of p21WAF1/CIP1 and p27KIP1 tumor suppressor proteins, as well as inhibition of protein kinase B (c-Akt).

The results listed below with both canine and human cancers, were with micronized zeolite (TMAZ) combined with calcium and magnesium in a patented formula called Megamin.

#### **TREATING CANINE CANCER:**

Dr. Ljiljana Bedric, Ph.D., at the Faculty of Veterinary Medicine in Zagreb, Croatia, led the research treatment of 51 dogs with various cancers.

All dogs improved with oral zeolite treatment. Some dogs had dramatic reduction or elimination of their cancerous tumors.

One week of treatment for six dogs with prostate cancer resulted in resolution of their symptoms. Eight dogs with lymphoma also responded quickly. Ten dogs with mucous membrane tumors or skin tumors responded positively during oral treatment, but regressed again when the zeolite was withdrawn, and when treatment resumed, the tumors again decreased. Ten female dogs with mammary gland tumors demonstrated a 50% reduction in large tumors within three to four weeks, with their small tumors being completely resolved in that time frame. A 50% reduction in three dogs with lung tumors was observed after one month of treatment; two of the dogs who received continued zeolite lived for one year. Two of three dogs with bone cancer lived for a year and a half with continued treatment.

#### **HUMAN CANCER CASE RESULTS**

The results of specific human cancer cases treated with zeolite was among the most interesting and encouraging results obtained.

Four male patients with various cancers (liver, prostate, lung and intestinal) all showed significant improvement after taking Megamin in capsule form.

In Croatia, five critically ill cancer patients demonstrated significant improvement in their symptoms and condition after taking large doses (10 to 20 grams or more a day) of Megamin.

In 1998 and 1999 in Croatia, 114 cancer patients were followed with the Megamin treatment protocol. Terminal brain cancer patients showed some improvement in their condition within 3 to 4 weeks. Almost all of forty lung cancer patients showed decreased pain and improved respiration within the same time frame. Fifty-three Patients with terminal gastrointestinal cancers improved at a much slower rate.

Several other small groups of cancer patients in Austria or Croatia were treated with Megamin

therapy and their results documented. In many cases up to 16 grams of micronized zeolite was given to the cancer patients in combinations of capsules and powder. Many of the patients chose to take the Megamin as their only therapy, refusing surgery, chemotherapy and radiation.

One of the patients with cancer of the larynx, taking the high amounts of Megamin listed above, experienced a decrease in the diameter of their tumor from 10 mm to 3 mm within nine months. The tumor also stabilized and became inactive.

A group of 16 cancer patients were treated by doctors at the Svecnjak Polyclinic with only Megamin therapy for a period of three years. At the end of the three years, 13 (81%) of the patients were in complete remission. This patient group included: 3 liver cancers, 4 metastatic melanoma, 2 bronchial carcinoma, 1 bladder cancer, and 1 hepatocellular carcinoma. The other 3 patients had obtained partial remission and stabilization of their cancers (2 lung cancer and 1 breast cancer).

In a second group of 16 cancer patients that added Megamin onto their traditional treatment with surgery, chemotherapy and radiation, half of the group, 8 patients, experienced complete remission. The other 8 patients experienced partial remission and disease stabilization.

**VIRAL HEPATITIS & ZEOLITE:**

After one month of treatment, 20 patients with chronic viral hepatitis experienced improvement in all their liver enzymes and reduction in the viral markers in their blood.

In those who had progressed to liver cirrhosis, along with fluid build-up, called ascites, treatment with Megamin helped to alleviate the fluid build-up in a short time.

One of the personal testimonies is from a man who had suffered with a low quality of life for over 25 years due to Hepatitis B. After a 12 day intensive treatment with Megamin, his quality of life improved dramatically.

**MULTIPLE SCLEROSIS:**

Patients with early MS responded positively to Megamin treatment. One woman reported that after six weeks all of her visual disturbances and paralysis was completely gone.

**TMAZ NANOPARTICLES AS POTENTIAL DRUGS INFLUENCING THE CELLULAR SIGNAL TRANSDUCTION PATHWAYS:**

This is the title of an abstract by S. Ivkovic, T. Baranel, P. Bendzko and J. Schulz, from the Klinomed Institut for Angewandte Nanotechnologie.

The most significant statement in this abstract is, "Clinical observations suggest that TMAZ may be particularly promising in tumors known to respond to immune treatment with interferons and interleukins, like melanoma, renal cell cancer, lung cancer, and grade II and III astrocytoma. Significant improvements of the Karnofsky index have been demonstrated in 40 lung cancer patients and in 21 individuals suffering from glioblastoma after a 4-week treatment with 12-16 grams of TMAZ daily. Some patients with melanoma stage III and IV or lung cancer survived relapse-free for five years and up to six years, respectively, on a long-term treatment with high-dose TMAZ."

**AVAILABILITY OF ZEOLITE:**

To reiterate the dosages used in research, most of the patients took 12 to 16 grams or more of the micronized zeolite, as capsules or as powder.

In the United States, in 2006, there are both capsules of zeolite and liquid drops of zeolite available. As the popularity of zeolite grows, there will probably be many supplement companies offering this unique, new supplement.

There's an interesting website on Autism  
www.zediteautismstudy.com.