



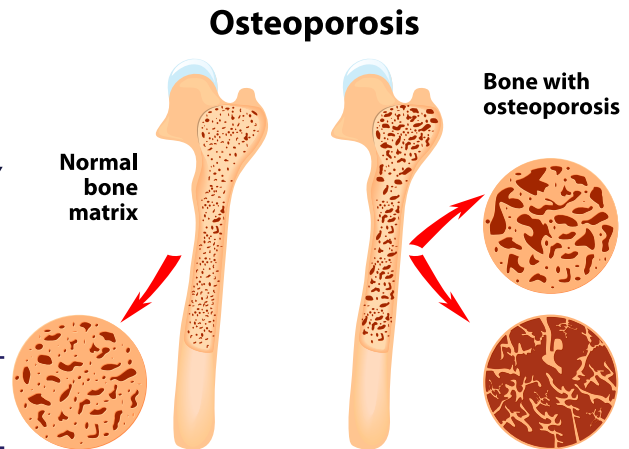
MICRONUTRIENTS FOR MAINTAINING HEALTHY BONE

PART 2

Osteoporosis - or thinning of bones- is a condition affecting 200 million people worldwide. This figure includes both women and men over 50. Approximately 75 million of those affected are in the USA, Europe, and Japan. Although postmenopausal women are more likely to develop osteoporosis, one in five men will also develop significant bone thinning in their lifetime. Osteoporosis is a disease where the bones lose density and strength which increases the risk of fractures and debilitation. Osteoporosis is the most common - yet least detected - bone disorder. A sedentary lifestyle, the use of prescription drugs such as corticosteroids, antacids (specifically, proton pump inhibitors), and psychiatric medications can cause excessive bone loss leading to osteoporosis. In the elderly, thin bones are prone to breaking and can result in hip or vertebral fractures and can increase the risk of premature death.

It is a popular perception that calcium and vitamin D are essential nutrients for healthy bones. However, few people are aware that bone health largely depends on its protein foundation – the collagen fibers. The alignment of collagen fibers within the bone (its “internal skeleton”) determine how calcium and other minerals are deposited, and therefore healthy collagen is the basis of the strength and stability of the entire bone.

The formation of healthy collagen which is the foundation for building strong bones, requires an optimum supply of essential micronutrients including vitamin C, lysine, proline, vitamins D and K2, and minerals such as calcium and others. Taking individual micronutrients such as only vitamin D and calcium, even in mega doses, do not provide optimal bone health benefits. These two micronutrients need to be combined in synergistic proportions with others for enhanced efficacy.



At our Research Institute we investigated whether different combinations of micronutrients can affect the rate of bone thinning. We used female rats whose ovaries were removed to simulate the metabolic change observed in postmenopausal women (loss of estrogen production). One group of rats was given a specific combination of micronutrients, while the other group was left as the control group. In both groups we observed an accelerated bone thinning process, however, in the micronutrient supplemented group, the rate of bone formation dominated over bone resorption (thinning) when compared to the rats on a normal diet. The level of Gla-osteocalcin, which is an indicator of the mineralization of the bone, was also increased in the micronutrient supplemented group of animals. The serum calcium levels rapidly reduce when the ovaries stop functioning, such as during menopause; however, the micronutrient supplemented group of rats had normal serum calcium levels, indicating they were restored due to supplementation.

Approximately half of all women start showing early signs of osteoporosis as young as 35-40 years of age. Due to the fact that osteoporosis lacks specific symptoms, most of them are not diagnosed until extensive bone thinning has already set in. It is widely recommended to supplement with calcium and vitamin D for bone health. However, for both men and women our study reiterates the importance of strong connective tissue, and utilizing a synergistic combination of micronutrients as a complete support of bone metabolism for maintaining a healthy and strong skeletal system over a lifetime.

This information is provided to you by the Dr. Rath Research Institute a leader in the breakthrough of natural health research in the field of cancer, cardiovascular disease and other common diseases. The Institute is a 100% subsidiary of the non-profit Dr. Rath Foundation.

The ground-breaking nature of this research poses a threat to the multi-billion dollar pharmaceutical “business with disease”. It is no surprise that over the years the drug lobby has attacked Dr. Rath and his research team in an attempt to silence this message. To no avail. During this battle, Dr. Rath has become an internationally renowned advocate for natural health. Says he: “Never in the history of medicine have researchers been so ferociously attacked for their discoveries. It reminds us that health is not given to us voluntarily, but we need to fight for it.”

This information is based on scientific research results. It is not intended to substitute for medical advice to treat, cure, or prevent any disease.
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