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IN THE MIX ON THE PULSE

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FORTIBONE®

THE MISSING PIECE IN BONE HEALTH MANAGEMENT



- Increase in bone mass density
- Clinically shown bone building effects
- Support bone stability and flexibility





Collagen is a major component of the human body. About 30% of our total body protein is collagen. Collagen is crucial for mobile joints, stable bones, healthy muscles, strong ligaments and tendons, smooth skin, glossy hair and healthy finger nails. It is one of the primary structural proteins of connective tissues and also abundant in blood vessels, intervertebral discs, the blood-brain barrier, the cornea, dentin and the intestinal wall – a vital component of our whole body. nutricol 🕦



Calcium supplements are everywhere, yet more and more people are suffering from osteoporosis and osteopenia. Bone is a mixture of mineral crystals held in an organic collagen matrix.

On their own, the crystals would be extremely brittle and prone to break. Like a bridge is built out of concrete and steel, collagen in the bones is essential for bone flexibility and elasticity. It is important to keep the skeletal system healthy.

Osteoporosis (OP) is a condition characterized by low bone mass and micro-architectural deterioration of bone tissue, which leads to enhanced bone fragility and a consequent increase in fracture risk¹. Osteopenia, the early stage of osteoporosis, can begin at the age of 35 years where bone mass progressively declines.² The likelihood to get a fracture increases with age. The risk of contracting a bone fracture is doubling every ten years in both genders.³

Bone mineral density measurement



Bone mass increase in the spine



1 Alves RD, Demmers JA, Bezstarosti K, van der Eerden BC, Verhaar JA, Eijken M, van Leeuwen JP (2011) Unraveling the human bone microenvironment beyond the classical extracellular matrix proteins: a human bone protein library. J Proteome Res 10:4725-4733

2 Raisz LG (2005) Pathogenesis of osteoporosis: concepts, conflicts, and prospects. J Clin Invest 115:3318-3325

3 Cole ZA, Dennison EM, Cooper C (2009) The impact of methods for estimating bone health and the global burden of bone disease. Salud Publica Mex 51 Suppl 1:S38-S45



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FORTIBONE[®] STIMULATES SYNTHESIS OF BONE COLLAGEN MATRIX

The specific peptides of FORTIBONE® stimulate bone cells to increase the synthesis of bone components such as collagen. They have a kind of 'signaling effect' on osteoblasts to counterbalance the collagen degradation in the extracellular bone matrix, which is the essential framework for bone mineralization. In addition FORTIBONE® influences degenerative processes in bones by reducing osteoclast activity. The result is a considerably higher synthesis of collagenous bone matrix. FORTIBONE® consumption showed a significant improvement of bone density. The results showed a pronounced increase in BMD (Bone Mineral Density) after FORTIBONE® supplementation in women suffering from osteopenia or osteoporosis. The results indicate an anabolic effect. FORTIBONE® is an interesting option to counteract bone degeneration.

Bone metabolism



Clinically proven to promote bone health

A single-center, prospective, randomized, placebocontrolled, double-blinded study showed the potential of FORTIBONE®. Over a period of 12 months, 180 women with reduced bone mass participated in a therapy with daily intake of 5g FORTIBONE® or placebo. Changes in bone mass density were measured in the spine and femoral neck of the participants detected by DXA scans.



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YOUR FORTIBONE® SUPPLEMENT: RECOMMENDED BY MEDICAL DOCTORS

Osteoporosis and Osteopenia are global issues

Bone atrophy, loss of bone density and bone stability is a problem particularly post-menopausal women have to deal with. But not only them. Osteoporosis is a major public health threat for an estimated 44 million U.S. citizens and for 55% of all Americans 50 years of age and older. Due to the increased human lifespan, osteopenia and osteoporosis have progressively turned into a major worldwide public health problem causing economic costs of €19 billion every year. By 2025, experts predict that osteoporosis will be responsible for approximately three million fractures and \$25.3 billion in costs annually.*

FORTIBONE® is developed to promote bone health, increasing bone density and reducing degradation processes. Products including FORTIBONE® appeal to the elderly and also to physically active consumers interested in maintaining good health.

FORTIBONE® promotes

- clean label (no E numbers)
- highly digestible food
- non-allergenic food
- scientific evidence

Create innovative dietary supplements with FORTIBONE®! FORTIBONE® can be used in a variety of supplement formats such as sachets, vials or gels, but is also applicable in functional food.

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