

## Restore Bone Density against Osteoporosis through Genetic Therapy

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Osteoporosis is a common disease among people. a metabolic bone disease characterized by low bone density and deterioration of bone architecture that increase the risk of fractures. The diagnosis of osteoporosis is primarily determined by measuring Bone Mineral Density (BMD) using noninvasive dual-energy x-ray absorptiometry. Osteoporosis most commonly occurs in the hip, spine, and wrist, it happens.

This disease is very devastating for the body, the disease is widespread in the elderly and in women, especially women who are postmenopausal. But today, in addition to these two strata, there are individuals who do not anticipate osteoporosis, but they may be affected by osteoporosis.

There are several reasons that directly or indirectly affect osteoporosis, the reasons are (The urban climatic conditions we live in, menopause in women, aging, consumption of food that is harmful to bone health, and ...).

We discovered a genetic drug that has definitive implications for the prevention and treatment of osteoporosis. we, with this drug, we restore the structure and bone health of the patients (In fact, we bring patients back into society without any problems, and we give them an Again opportunity to manage their bone health better).

**Introduction**

Scientific associations today agree that osteoporosis is a complex disorder caused by the interaction between environmental factors and genes that effectively affects the bone metabolism and fracture risk or improves bone density.

We have discovered a specific gene, the name is Gene (hemo). This gene supports all stages of building body skeletons (Figure 1).

**What is Gene Therapy?**

Gene therapy is an important topic in science. The concept of gene therapy is an experimental method that uses genes to treat or prevent disease.

Gene therapy is the transfer of new functional genes to a cell or individual tissue that has osteoporosis.

**More about Hemo**

hemo is a genetic substance, which exists in the wall of the fetal sac, and plays an important role in making the baby's skeleton.

When the fetus develops, this material is stored as a bone support on the nail plate.

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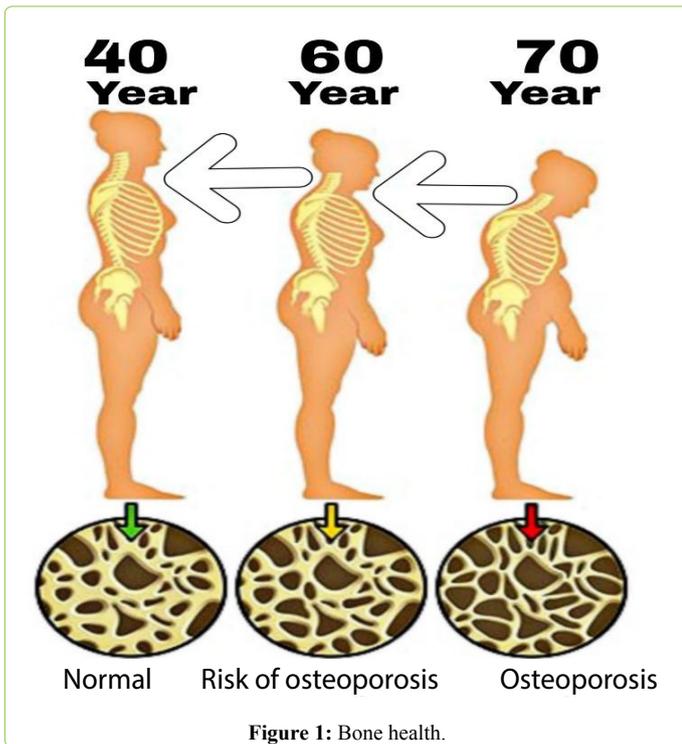


Figure 1: Bone health.

## Treatment Method

Below the nail plate is a fluid that is associated with fat and protein. We remove this liquid from the patient's nail plate. There is hemo in this liquid. In fact, hemo is in the genetic code.

Once the desired gene is found, we need to separate some of the protein and fats in this fluid.

In fact, we design a kind of genetically engineered fluid that restores bone metabolism. The name of the drug is obtained (hemoteni).

## Tip

Defective genes can cause breakdown in metabolic pathways, which can cause diseases (osteoporosis) that are deeply rooted in human genetic design.

## Period and Manner of Consumption

To prevent 0.5 or 1 cc per year and to treat 1.5 or 2 cc depending on the stage of the disease is enough.

We even know how to increase this substance, and this does not require any re-manufacturing of medicine during treatment.