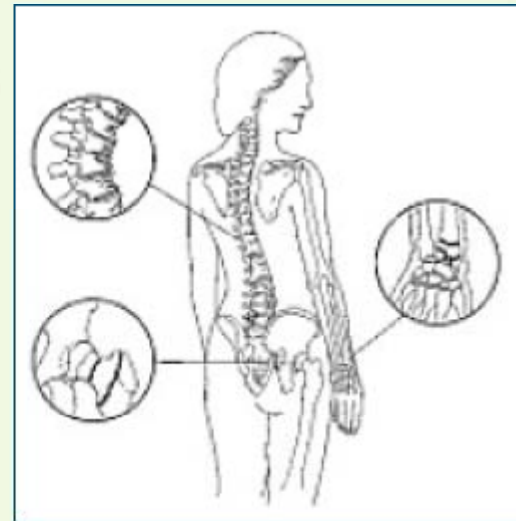




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a Sobel Company

Benefits

- ✓ **Skeleton Health Effects**
Joints & Bones



- ✓ **Health and Beauty Effects**
Skin, Hair, Nails



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Benefits for the Skeleton

International studies confirm that hydrolyzed collagen

has regenerative and preventive effects on the skeleton

and locomotive system (bones, cartilage, tendons and ligaments).

Positive effects are recorded in cases of osteoporosis

and osteoarthritis conditions.

Quadriceps



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Benefits for the Skeleton

Osteoporosis facts

Osteoporosis is characterized by a reduction in bone density due to calcium loss and bone collagen decomposition.

Bone fragility and risk of fracture are dramatically increased.

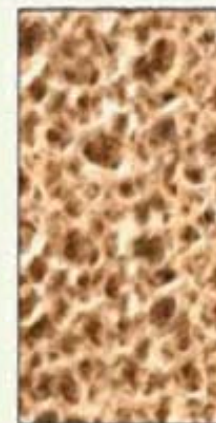
Figures

- One in four women over 50 has osteoporosis.
- 80% of osteoporosis sufferers are women; 20% percent are men.
- By the age of 20, a woman has 98% of the bone mass she will have for the rest of her life.



Bone section
through hip

Normal Bone



Bone with
Osteoporosis





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Benefits for the Skeleton

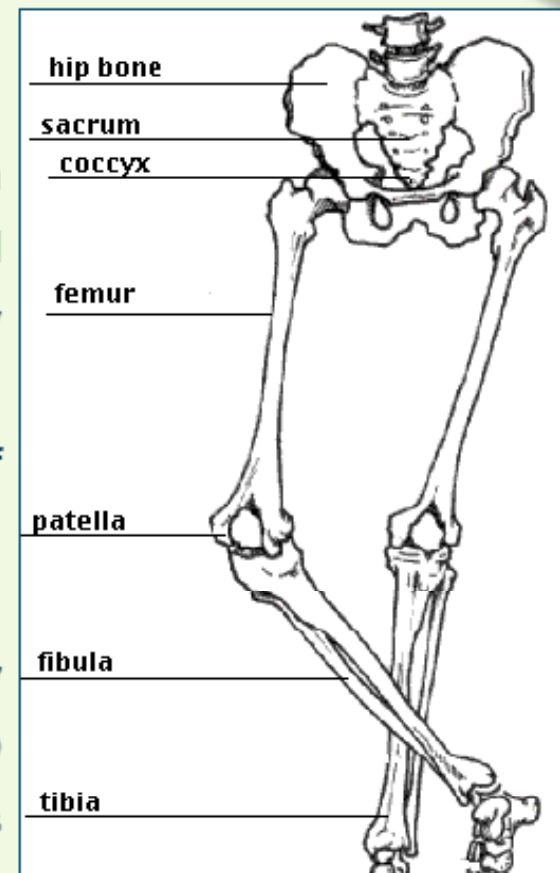
Osteoporosis prevention

Clinical study *(conducted by Adam, 1996)*

94 postmenopausal women suffering from osteoporosis were given 10g/day of **hydrolyzed collagen** in supplement to their basic therapy (calcitonin injections).

→ treatment provides a greater slowdown of collagen decomposition.

Hydrolyzed collagen supplementation additionally to a balanced diet rich in calcium and Vitamin D help to prevent osteoporosis. Vitamin D is necessary to help the body absorb the calcium.





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Benefits for the Skeleton

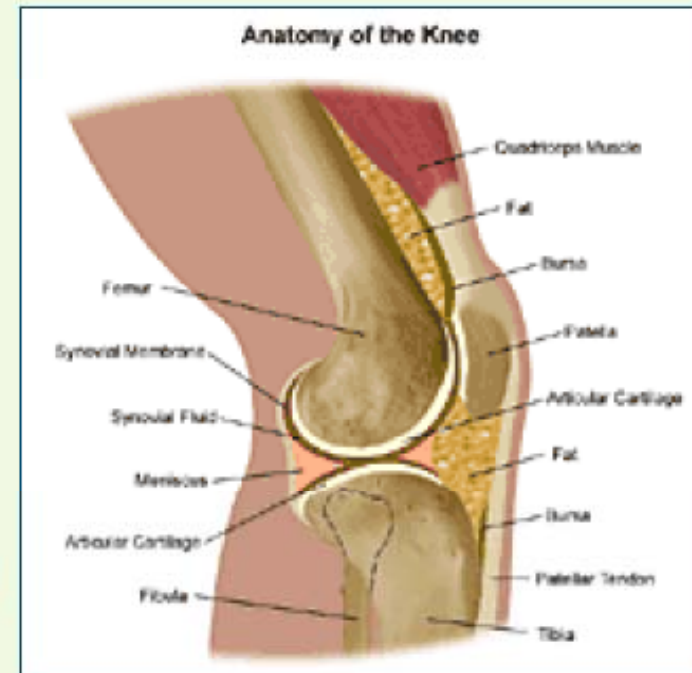
Osteoarthritis facts

Osteoarthritis (or degenerative joint disease) is one of the most common types of arthritis.

It is characterized by the breakdown of joint's cartilage.

This provokes the bones rub against each other, causing pain and lost of movement.

The prevalence is higher among women and elderly people.





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Benefits for Skeleton

Osteoarthritis prevention

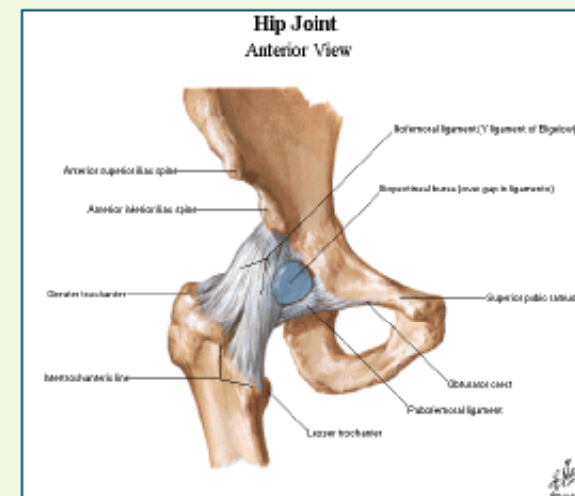
Clinical studies (conducted by Adam, 1991 and by Moskowitz, 2000)

Supplementation of diet with **10g/day of hydrolyzed collagen** results :

- in a **significant reduction in joint pain**
- in analgesic consumption of patients
- it leads to a **clear improvement in joint movement.**

In vitro study (conducted by Oesser et al., 1999)

Hydrolyzed Collagen stimulates the biosynthesis of collagen by chondrocytes in cartilage.





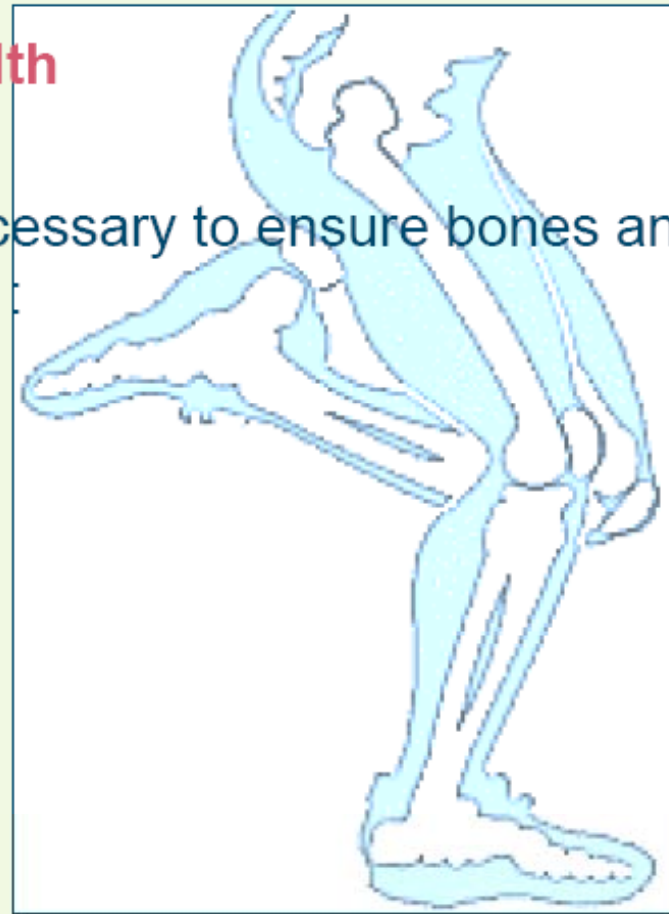
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Benefits for the Skeleton

For **Bones** and **Joints** health

Preventive protection is necessary to ensure bones and joint health, this consists of :

- a balanced nutrition
- adequate intakes
- and any kind of exercise



Benefits review

- **Health of bones and joints**
 - Slowdown of bone decomposition with 10g/day Hydrolyzed collagen for osteoporosis sufferers.
 - Decrease in joint pain and improvement in joint movement for osteoarthritis sufferers.
- **Healthy skin, hair and nails**
 - Increase in skin water-binding capacity and improvement in elasticity.
 - Increase in hair diameter providing strengthened hair mechanical properties
 - Recovery of healthy nails.

