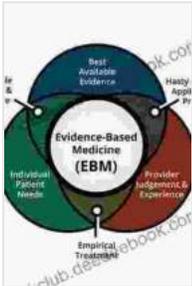


State of the Evidence and Clinical Applications of Bisphosphonates in the Treatment of Osteoporosis



Stem Cell Therapy for Vascular Diseases: State of the Evidence and Clinical Applications by Patrick M. Whitehead

★★★★☆ 4 out of 5

Language : English
File size : 16179 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 707 pages



Osteoporosis is a common bone disease that affects millions of people around the world. It is characterized by a decrease in bone density and an increased risk of fractures. Bisphosphonates are a class of drugs that are used to treat osteoporosis. They work by slowing down the rate of bone loss and increasing bone density.

There is a large body of evidence to support the use of bisphosphonates in the treatment of osteoporosis. Several clinical trials have shown that bisphosphonates can reduce the risk of fractures by up to 50%. Bisphosphonates have also been shown to be effective in increasing bone density and reducing bone pain.

Bisphosphonates are generally well-tolerated. The most common side effects are gastrointestinal upset and muscle pain. However, these side

effects are usually mild and go away after a few weeks.

Bisphosphonates are available in a variety of forms, including oral tablets, intravenous infusions, and topical creams. The type of bisphosphonate that is used and the dosage will depend on the individual patient's needs.

Bisphosphonates are a safe and effective treatment for osteoporosis. They can help to reduce the risk of fractures, increase bone density, and reduce bone pain. Bisphosphonates are generally well-tolerated and are available in a variety of forms.

Mechanism of Action

Bisphosphonates are a class of drugs that work by inhibiting the activity of osteoclasts. Osteoclasts are cells that break down bone. By inhibiting the activity of osteoclasts, bisphosphonates reduce the rate of bone loss.

Bisphosphonates are also able to increase bone density by stimulating the activity of osteoblasts. Osteoblasts are cells that build new bone. By stimulating the activity of osteoblasts, bisphosphonates help to increase the amount of bone in the body.

Clinical Applications

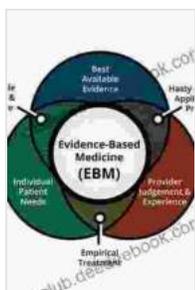
Bisphosphonates are used to treat a variety of bone diseases, including osteoporosis, Paget's disease of bone, and osteogenesis imperfecta.

Bisphosphonates are also used to prevent bone loss in patients who are at risk of developing osteoporosis, such as patients who are taking glucocorticoids or who have had a kidney transplant.

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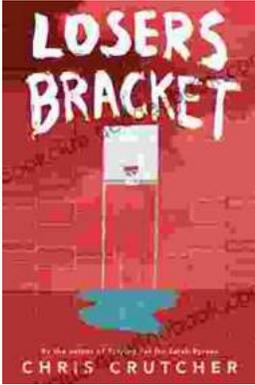


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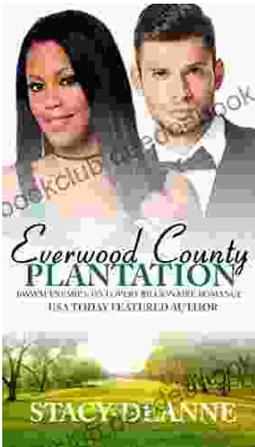
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