

Bisphosphonates in Bone Disease



Bisphosphonates in Bone Disease: From the Laboratory to the Patient by Herbert Fleisch

★★★★☆ 4 out of 5

Language : English
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Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 405 pages

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Bisphosphonates are a class of drugs that are used to treat a variety of bone diseases, including osteoporosis, Paget's disease of bone, and multiple myeloma. They work by inhibiting osteoclasts, the cells that break down bone. This leads to an increase in bone density and a reduction in the risk of fractures.

Mechanism of Action

Bisphosphonates are analogs of pyrophosphate, a naturally occurring substance that inhibits bone resorption. They bind to hydroxyapatite crystals on the surface of bone and prevent osteoclasts from attaching to and resorbing bone. This leads to a decrease in bone resorption and an increase in bone density.

Clinical Indications

Bisphosphonates are indicated for the treatment of the following bone diseases:

- Osteoporosis
- Paget's disease of bone
- Multiple myeloma
- Osteogenesis imperfecta
- Fibrous dysplasia
- Bone metastases

Adverse Effects

The most common adverse effects of bisphosphonates are gastrointestinal, including nausea, vomiting, and abdominal pain. Other potential adverse effects include:

- Osteonecrosis of the jaw
- Atypical femoral fractures
- Hypocalcemia
- Renal impairment

The risk of these adverse effects is generally low, but it is important to be aware of them before starting treatment with bisphosphonates.

Bisphosphonates are an effective treatment for a variety of bone diseases. They work by inhibiting osteoclasts and increasing bone density. The most common adverse effects of bisphosphonates are gastrointestinal, but other

potential adverse effects include osteonecrosis of the jaw, atypical femoral fractures, hypocalcemia, and renal impairment. The risk of these adverse effects is generally low, but it is important to be aware of them before starting treatment with bisphosphonates.

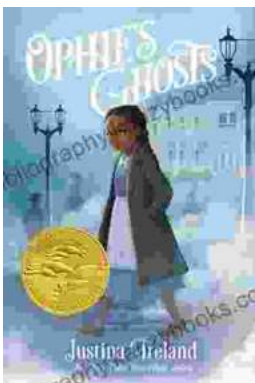
If you are considering taking bisphosphonates, it is important to talk to your doctor about the risks and benefits of the medication. Your doctor can help you decide if bisphosphonates are right for you.



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