Teriparatide



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PTH Analog
Parachuting-thigh-droid with Harmonica On-a-log
Teriparatide is a recombinant PTH analog commonly used in the treatment of osteoporosis and specifically approved for use in those with glucocorticoid-induced osteoporosis.

Increased Osteoblast Activity
Up-arrow Ostrich-blast
Teriparatide works to increase osteoblastic activity, which leads to bone growth. This effect occurs when administered in a pulsatile fashion.

Teriparatide has a short duration of action and half-life, and, as such, the initial effect is bone resorption. This effect is then followed by an increase in bone formation. Thus, when administered in a pulsatile fashion, this stimulates bone formation compared to resorption and, over time, leads to increased bone density.

Indications

Osteoporosis
Ostrich-with-porous-bones
As a PTH analog, teriparatide is commonly used to treat osteoporosis. It is also approved for the treatment of glucocorticoid-induced osteoporosis and can be considered a first line in higher-risk patients.

Adverse Effects

Increased Risk of Osteosarcoma
Up-arrow Risk Ostrich-shark-comb
Teriparatide should be used with caution in those with elevated risk factors for osteosarcoma. For instance, those with increased unexplained ALK-P, Paget disease of the bone, or those with a history of cancer or radiation therapy.

Hypercalcemia
Hiker-calcified-cow
Teriparatide use can result in transitory hypercalcemia.

Contraindications

Paget Disease of Bone
Pageant-sash Skeleton with Caution-tape
Teriparatide should be used with caution in those with elevated risk factors for osteosarcoma. For instance, those with increased unexplained ALK-P, Paget disease of the bone, or those with a history of cancer or radiation therapy.

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Radiation Therapy

Radiation-radio with Caution-tape

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