Pegloticase

Pegloticase is a recombinant uricase that works by converting uric acid to allantoin. It used as 3rd line agent for chronic gout. Infusion reactions and gout flares are common side effects and pegloticase is contraindicated in patients with G6PD deficiency.



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Characteristics

Recombinant Uricase
Record-comb Unicorn-ace
Pegloticase is a recombinant uricase that works by converting uric acid to allantoin by an oxidation process.

Converts Uric Acid to Allantoin
Converting Unicorn Acidic-lemon to Alien-toe
By metabolizing uric acid to allantoin, which is water-soluble, serum uric acid decreases. Water-soluble metabolites are more easily eliminated by the kidney.

3rd Line Agent
3rd-place Agent with (3) Tree
The American College of Rheumatology recommends using pegloticase as a third-line agent for chronic gout. This means that patients must fail to respond to xanthine oxidase inhibitors (e.g. allopurinol) and uricosuric drugs (e.g. probenecid) before pegloticase can be considered.

Indications

Chronic Gout
Crone Goat
Pegloticase is indicated for chronic gout that does not improve with xanthine oxidase inhibitors or uricosuric medications. It is also indicated for rapid relief of symptoms or to reduce tophus quickly.

Considerations

Infusion Reactions
In-fused-IV Reaction
Infusion reactions is the second most common side effect of pegloticase. This happens a few hours after or during administration. Symptoms that can occur are urticaria, erythema, flushing, musculoskeletal pain, dyspnea, nausea/vomiting, headache, and changes in blood pressure. To prevent this event, the patient should be premedicated with antihistamines and corticosteroids.

Contraindicated in G6PD Deficiency
Caution-tape and (Gluco) glue (6) sax P (dehydrogenase) dehydrator (deficiency) broken
Pegloticase is contraindicated in patiehts with glucose-6-phosphate dehydrogenase (G6PD) deficiency. This is because pegloticase can precipitate a hemolytic crisis from the hydrogen peroxide produced when uric acid is converted to allantoin.

Gout Flares
Caution-tap on Goat with Flare-gun
The most common side effect of pegloticase is a gout flare. This is due to rapid decrease in serum uric acid levels and monosodium urate dissolution. It occurs in 80% of patients within the first 3 months of treatment.

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