

Medication Names

Prototype Med	somatropin (Genotropin)
	Nutropin
	Humatrope
	Serostim

ACTION: Stimulates the release of insulin-like growth factor-1, abbreviated IGF-1, from the liver and other tissues.

Therapeutic Use

Growth hormone deficiencies, such as Turner's syndrome
Growth hormone deficiency in adults to increase lean muscle mass
AIDS wasting syndrome

Adverse

Hyperglycemia
Fatality in PWS Clients
Neutralizing antibodies

Contraindications

Severe obesity
Severe respiratory impairment
Closed epiphyses in children
Critical illness

Interactions

Glucocorticoids and adrenocorticotrophic hormone counteract growth-stimulating effects.

Thyroid hormones, estrogens, and androgens promote epiphyseal closure.

Nursing Interventions

Monitor blood glucose levels.

Administration

Give IM or subcutaneously (preferable).

Dosage is based on weight

Given daily or several times a week

Very costly

Pediatric Clients: Obtain baseline height, weight, thyroid function, and growth hormone levels and monitor monthly; yearly X-rays of long bones

When reconstituting the drug, rotate the vial gently and do not shake it

Inject subcutaneously into the abdomen and thighs and rotate sites.

Discontinue treatment prior to epiphyseal closure in children.

Client Instructions

Injection site should be rotated.

Precautions

Diabetes mellitus
Prader-Willi syndrome
Hypothyroidism
Chronic renal failure

