Medication Names

Prototye 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 adrenocorticotropic hormone counteract growth-stimulating effects.
- Thyroid hormones, estrogens, and androgens promote epiphyseal clo- sure.

Nursing Interventions

- Monitor blood glucose levels.

Administration

- Give IM or subcutaneously (preferable).
- Dosage is based on weight
- Given daily or several times a wee
- 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

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