Growth Hormone Deficiency in Children

1. Standard deviation of 2.0 or more below mean height for chronological age.
2. No expanding intracranial lesion or tumor diagnosed.
3. Growth rate below five centimeters per year.
4. Failure of any two stimuli test to raise the serum growth hormone level above 10 nanograms/milliliter.
5. Bone age 14-15 years or less in females and 15-16 years or less in males.
6. Epiphyses open.

Growth Retardation of Chronic Renal Insufficiency

1. Standard deviation of 2.0 or more below mean height for chronological age.
2. No expanding intracranial lesion or tumor diagnosed.
3. Growth rate below five centimeters per year.
4. Irreversible renal insufficiency with a creatinine clearance <75 ml/min per 1.73m2 but pre-renal transplant.
5. Bone age 14-15 years or less in females and 15-16 years or less in males.
6. Epiphyses open.

Turner's Syndrome

1. Chromosomal abnormality showing Turner's syndrome.
2. Standard deviation of 2.0 or more below mean height for chronological age.
3. No expanding intracranial lesion or tumor diagnosed.
4. Growth rate below five centimeters per year.
5. Bone age 14-15 year.
6. Epiphyses open.

Neurosecretory Growth Retardation

1. Standard deviation of 2.0 or more below mean height for chronological age
2. No expanding intracranial lesion or tumor diagnosed.
3. Growth rate below five centimeters per year.
4. Bone age 14-15 years or less in females and 15-16 years or less in males.
5. Epiphyses open.
6. Mixed or normal response to any two stimuli test in raising serum growth hormone above 10 nanograms/milliliter.
7. IGF-1 levels less than 50th percentile for chronological age.

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