


## Prior Authorization Review Panel

### CHIP-MCO Policy Submission

A separate copy of this form must accompany each policy submitted for review.  
Policies submitted without this form will not be considered for review.

<b>Plan: PA Health &amp; Wellness</b>	<b>Submission Date: 02/01/2026</b>
<b>Policy Number: PA.CHIP.PHAR.517</b>	<b>Effective Date: 01/2026</b> <b>Revision Date: 01/2026</b>
<b>Policy Name: Human Growth Hormone (Somapacitan, Somatrogon, Somatropin, Lonapegsomatropin-tcgd)</b>	
<b>Type of Submission – <u>Check all that apply:</u></b>  <input type="checkbox"/> New Policy <input checked="" type="checkbox"/> Revised Policy* <input type="checkbox"/> Annual Review - No Revisions <input type="checkbox"/> Statewide PDL - <i>Select this box when submitting policies for Statewide PDL implementation and when submitting policies for drug classes included on the Statewide PDL.</i>	
<b>*All revisions to the policy <u>must</u> be highlighted using track changes throughout the document.</b>	
<b>Please provide any changes or clarifying information for the policy below:</b>  1Q 2026 annual review: added Sogroya as a co-preferred long-acting growth hormone alongside Skytrofa; RT4: for Skytrofa, added new indication for replacement of endogenous GH in adults with GHD and added new cartridge strengths (0.7 mg, 1.4 mg, 1.8 mg, 2.1 mg, 2.5 mg); removed Zorbtive from policy due to market discontinuation; removed criteria for short bowel syndrome due to lack of support by AGA; for HIV-associated wasting, added option for unintentional weight loss of $\geq 5\%$ in the last 6 months while on antiretroviral and removed use of ideal body weight criteria per update 2024 consensus expert statement; extended initial approval duration from 6 to 12 months for this maintenance medication for a chronic condition; references reviewed and updated.	
<b>Name of Authorized Individual (Please type or print):</b>  Craig A. Butler, MD MBA	<b>Signature of Authorized Individual:</b>  

# Clinical Policy: Human Growth Hormone (Somapacitan, Somatrogen, Somatropin, Lonapegsomatropin-tcgd)

Reference Number: PA.CHIP.PHAR.517

Effective Date: 01/2026

Last Review Date: 01/2026

## Description

The following human growth hormone (hGH) formulations require prior authorization:

- hGH analogs: somapacitan-beco (Sogroya<sup>®</sup>), somatrogen-ghla (Ngenla<sup>™</sup>)
- Recombinant hGH (rhGH) formulations: somatropin (Genotropin<sup>®</sup>, Humatrope<sup>®</sup>, Norditropin<sup>®</sup>, Nutropin AQ<sup>®</sup>, NuSpin<sup>®</sup>, Omnitrope<sup>®</sup>, Saizen<sup>®</sup>, Serostim<sup>®</sup>, Zomacton<sup>®</sup>), longpegsomatropin-tcgd (Skytrofa<sup>®</sup>)

Drugs	Children								Adults	
	GHD	PWS	TS	NS	SHOX	CKD	SGA	ISS	GHD	HIV
Sogroya	GF								X	
Genotropin	GF	GF	GF				GF	GF	X	
Humatrope	GF		SS		SS/GF		SS	SS/GF	X	
Ngenla	GF									
Norditropin	GF	GF	SS	SS			SS	SS	X	
NutropinAQ NuSpin	GF		GF			GF		GF	X	
Omnitrope	GF	GF	GF				GF	GF	X	
Saizen	GF								X	
Serostim										X
Skytrofa	GF								X	
Zomacton	GF		SS		SS		SS	SS	X	

Abbreviations: CKD: chronic kidney disease, GF: growth failure, GHD: growth hormone deficiency, HIV: human immunodeficiency virus, ISS: idiopathic short stature, NS: Noonan syndrome, PWS: Prader-Willi syndrome, SGA: small for gestational age, SHOX: short stature homeobox-containing gene, SS: short stature, TS: Turner syndrome

## FDA Approved Indication(s)

### hGH Analogs:

Sogroya is indicated for:

- Treatment of pediatric patients aged 2.5 years and older who have GF due to inadequate secretion of endogenous GH
- Replacement of endogenous GH in adults with GHD

Ngenla is indicated for:

- Treatment of pediatric patients aged 3 years and older who have GF due to inadequate secretion of endogenous GH

### rhGH Formulations:

Genotropin is indicated for treatment of:

- Children with GF due to GHD, PWS, SGA, TS, and ISS.
- Adults with either childhood-onset (CO) or adult-onset (AO) GHD.

Humatrope is indicated for treatment of:

- Pediatric patients: GF due to inadequate secretion of endogenous GH; SS associated with TS; ISS, high standard deviation score (SDS) <- 2.25, and associated with growth rates unlikely to permit attainment of adult height in the normal range; SS or GF in SHOX

deficiency; SS born small for SGA with no catch-up growth by 2 years to 4 years of age.

- Replacement of endogenous GH in adults with GHD.

Norditropin FlexPro is indicated for the treatment of:

- Children with GF due to GHD, SS associated with NS, SS associated with TS, SS born SGA with no catch-up growth by age 2 to 4 years, ISS, and GF due to PWS.
- Replacement of endogenous GH in adults with GHD.

Nutropin AQ NuSpin is indicated for the treatment of:

- Children with GF due to GHD, ISS, TS, and CKD up to the time of renal transplantation.
- Adults with either CO or AO GHD.

Omnitrope is indicated for the treatment of:

- Children with GF due to GHD, PWS, SGA, TS, and ISS.
- Adults with either CO or AO GHD.

Saizen is indicated for:

- Children with GF due to GHD.
- Adults with either CO or AO GHD.

Serostim is indicated for the treatment of:

- HIV patients with wasting or cachexia to increase lean body mass and body weight, and improve physical endurance.

Skytrofa is indicated for treatment of:

- Pediatric patients 1 year and older who weigh at least 11.5 kg and have GF due to inadequate secretion of endogenous GH.
- Replacement of endogenous GH in adults with GHD.

Zomacton is indicated for:

- Treatment of pediatric patients who have GF due to inadequate secretion of endogenous GH, SS associated with TS, ISS, SS or GF in SHOX deficiency, and SS born SGA with no catch-up growth by 2 years to 4 years.
- Replacement of endogenous GH in adults with GHD.

### **Policy/Criteria**

*Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.*

It is the policy of PA Health & Wellness<sup>®</sup> that Skytrofa, Sogroya, Ngenla, and somatropin are **medically necessary** when the following criteria are met:

#### **I. Initial Approval Criteria**

##### **A. Growth Hormone Deficiency with Neonatal Hypoglycemia (off-label) (must meet all):**

1. Diagnosis of neonatal hypoglycemia due to GHD;
2. Request is for a somatropin formulation;
3. Prescribed by or in consultation with a pediatric endocrinologist;
4. Age  $\leq$  1 month;

5. Serum GH concentration  $\leq 5 \mu\text{g/L}$ ;
  6. Member meets one of the following (a or b):
    - a. Imaging shows hypothalamic-pituitary abnormality;
    - b. Deficiency of  $\geq 1$  anterior pituitary hormone other than GH (e.g., ACTH, TSH, LH, FSH, prolactin);
  7. The requested product is not prescribed concurrently with Increlex<sup>®</sup> (mecasermin);
  8. If request is NOT for Norditropin or Omnitrope cartridge, one of the following (a, b, or c):
    - a. Member must use Norditropin\* and Omnitrope cartridge\*;
    - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
    - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;
- \*Prior authorization may be required for Norditropin and Omnitrope*
9. Dose does not exceed 0.30 mg/kg per week.

**Approval duration: 12 months**

**B. Growth Hormone Deficiency with Short Stature/Growth Failure - Children (*open epiphyses*) (must meet all):**

1. Diagnosis of GHD;
2. Prescribed by or in consultation with a pediatric endocrinologist;
3. Age  $< 18$  years;
4. If request is for Skytrofa, age  $\geq 1$  years and weight  $\geq 11.5$  kg;
5. If request is for Sogroya, age  $\geq 2.5$  years;
6. If request is for Ngenla, age  $\geq 3$  years;
7. If age  $> 10$  years, open epiphysis on x-ray;
8. Member meets one of the following (a or b):
  - a. Low insulin-like growth factor (IGF)-I serum level;
  - b. Low insulin-like growth factor binding protein (IGFBP)-3 serum level;
9. Member meets one of the following (a, b, c, d, or e):
  - a. Two GH stimulation tests with peak serum levels  $\leq 10 \mu\text{g/mL}$  (e.g., stimulants: arginine, clonidine, glucagon);
  - b. Deficiency of  $\geq 3$  pituitary hormones (i.e., ACTH, TSH, LH, FSH, prolactin);
  - c. Prior surgery or radiotherapy to the hypothalamic-pituitary region;
  - d. Imaging shows hypothalamic-pituitary abnormality;
  - e. GHD-specific mutation (e.g., POU1F1, PROP1, LHX3, LHX4, HESX1, OTX2, TBX19, SOX2, SOX3, GLI2, GHRHR, GH1);
10. Member meets one of the following (a or b):
  - a. SS: height is  $> 2$  SD below the mean for age and sex (SD, height, date, and age in months within the last 90 days are required);
  - b. GF: one of the following (i, ii, or iii):
    - i. Height deceleration across two growth chart percentiles representing  $> 1$  SD below the mean for age and sex (SD and 2 heights, dates, and ages in months at least 6 months apart within the last year are required);
    - ii. Growth velocity  $> 2$  SD below the mean for age and sex over 1 year (SD and 2 heights, dates, and ages in months at least 1 year apart within the last year are required);
    - iii. Growth velocity  $> 1.5$  SD below the mean for age and sex sustained over 2 years (SD and 2 heights, dates, and ages in months at least 2 years apart within

the last two years are required);

11. The requested product is not prescribed concurrently with Increlex (mecasermin);
12. If request is for a long acting growth hormone, (e.g. Ngenla, Skytrofa, Sogroya) (a or b):
  - a. Member must use Sogroya\* and Skytrofa\*;
  - b. Sogroya and Skytrofa are both contraindicated or clinically significant adverse effects are experienced;

*\*Prior authorization may be required*

13. If request is NOT for Norditropin\*, Omnitrope cartridge\*, Sogroya\*, Ngenla\*, or Skytrofa\*, one of the following (a, b, or c):
  - a. Member must use Norditropin\* and Omnitrope cartridge\*;
  - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
  - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;

*\*Prior authorization may be required*

14. Dose does not exceed one of the following (a, b, c, or d):
  - a. For Ngenla: 0.66 mg/kg per week;
  - b. For Skytrofa: 0.24 mg/kg per week;
  - c. For Sogroya: 0.16 mg/kg per week;
  - d. For somatropin agents: 0.30 mg/kg per week.

**Approval duration: 12 months**

**C. Genetic Disorders with Short Stature/Growth Failure - Children (must meet all):**

1. Diagnosis of PWS, TS, NS, or SHOX deficiency confirmed by a genetic test;
2. Request is for a somatropin formulation;
3. Prescribed by or in consultation with a pediatric endocrinologist;
4. Age < 18 years;
5. If age > 10 years, open epiphysis on x-ray;
6. Member meets one of the following (a or b):
  - a. SS: height is > 2 SD below the mean for age and sex (> 1.5 SD if TS) (SD, height, date, and age in months within the last 90 days are required);
  - b. GF: one of the following (i, ii, or iii):
    - i. Height deceleration across two growth chart percentiles representing > 1 SD below the mean for age and sex (SD and 2 heights, dates, and ages in months at least 6 months apart within the last year are required);
    - ii. Growth velocity > 2 SD below the mean for age and sex over 1 year (SD and 2 heights, dates, and ages in months at least 1 year apart within the last year are required);
    - iii. Growth velocity > 1.5 SD below the mean for age and sex sustained over 2 years (SD and 2 heights, dates, and ages in months at least 2 years apart within the last two years are required);
7. The requested product is not prescribed concurrently with Increlex (mecasermin);
8. If request is NOT for Norditropin or Omnitrope cartridge, one of the following (a, b, or c):
  - a. Member must use Norditropin\* and Omnitrope cartridge\*;
  - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;

- c. Norditropin, Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;
- \*Prior authorization may be required for Norditropin and Omnitrope*
- 9. Request meets one of the following (a, b, or c):
    - a. PWS: Dose does not exceed 0.24 mg/kg per week;
    - b. TS, NS: Dose does not exceed 0.5 mg/kg per week;
    - c. SHOX deficiency: Dose does not exceed 0.35 mg/kg per week.

**Approval duration: 12 months**

**D. Chronic Kidney Disease with Growth Failure – Children (must meet all):**

- 1. Diagnosis of CKD;
- 2. Request is for a somatropin formulation;
- 3. Prescribed by or in consultation with a pediatric endocrinologist or nephrologist;
- 4. Age < 18 years;
- 5. If age > 10 years, open epiphysis on x-ray;
- 6. Member meets one of the following (a, b, c, or d):
  - a. GFR < 60 mL/min per 1.73 m<sup>2</sup> for ≥ 3 months;
  - b. Dialysis dependent;
  - c. Diagnosis of nephropathic cystinosis;
  - d. History of kidney transplant ≥ 1 year ago;
- 7. Member meets one of the following (a or b):
  - a. SS: height is > 2 SD below the mean for age and sex (SD, height, date, and age in months within the last 90 days are required);
  - b. GF: one of the following (i, ii, or iii):
    - i. Height deceleration across two growth chart percentiles representing > 1 SD below the mean for age and sex (SD and 2 heights, dates, and ages in months at least 6 months apart within the last year are required);
    - ii. Growth velocity > 2 SD below the mean for age and sex over 1 year (SD and 2 heights, dates, and ages in months at least 1 year apart within the last year are required);
    - iii. Growth velocity > 1.5 SD below the mean for age and sex sustained over 2 years (SD and 2 heights, dates, and ages in months at least 2 years apart within the last two years are required);
- 8. The requested product is not prescribed concurrently with Increlex (mecasermin);
- 9. If request is NOT for Norditropin or Omnitrope cartridge one of the following (a, b, or c):
  - a. Member must use Norditropin\* and Omnitrope cartridge\*;
  - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
  - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;

*\*Prior authorization may be required for Norditropin and Omnitrope*
- 10. Dose does not exceed 0.35 mg/kg per week.

**Approval duration: 12 months**

**E. Born Small for Gestational Age with Short Stature/Growth Failure - Children (must meet all):**

- 1. Diagnosis of SGA:
- 2. Request is for a somatropin formulation;

3. Prescribed by or in consultation with a pediatric endocrinologist;
  4. Age  $\geq 2$  years and  $< 18$  years;
  5. If age  $> 10$  years, open epiphysis on x-ray;
  6. Birth weight or length  $> 2$  SD below the mean for gestational age (SD, birth weight or length, and gestational age are required);
  7. Current height  $> 2$  SD below the mean for age and sex measured within the last year at  $\geq 2$  years of age (SD, height, date, and age in months are required);
  8. The requested product is not prescribed concurrently with Increlex (mecasermin);
  9. If request is NOT for Norditropin or Omnitrope cartridge, one of the following (a, b, or c):
    - a. Member must use Norditropin\* and Omnitrope cartridge\*;
    - b. If both Norditropin and Omnitrope cartridges are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
    - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;
- \*Prior authorization may be required for Norditropin and Omnitrope*
10. Dose does not exceed 0.48 mg/kg per week.

**Approval duration: 12 months**

**F. Idiopathic Short Stature:**

1. Use of Growth Hormones for the treatment of Idiopathic Short Stature is a benefit exclusion and will not be authorized because it is considered cosmetic in nature.
- Approval duration: Not applicable**

**G. Growth Hormone Deficiency – Adults and Transition Patients (*closed epiphyses*)**

(must meet all):

1. Diagnosis of GHD;
2. Request is for a somatropin or somapacitan formulation;
3. Prescribed by or in consultation with an endocrinologist;
4. Age  $\geq 18$  years OR closed epiphysis on x-ray;
5. Member has NOT received somatropin therapy for  $\geq 1$  month prior to GH/IGF-I testing as outlined below;
6. Member meets one of the following (a, b, or c):
  - a. Two fasting a.m. GH stimulation tests with peak serum levels  $\leq 5$   $\mu\text{g/mL}$  (accepted stimulants: Macrilen<sup>TM</sup> [macimorelin] or combination of 2 stimulants such as arginine + glucagon);
  - b. Both of the following (i and ii):
    - i. One fasting a.m. GH stimulation test with peak serum level  $\leq 5$   $\mu\text{g/ml}$  (accepted stimulants: Macrilen [macimorelin] or combination of 2 stimulants such as arginine + glucagon);
    - ii. One low IGF-I serum level;
  - c. One low IGF-I serum level and one of the following (i, ii, or iii):
    - i. Imaging shows hypothalamic-pituitary abnormality;
    - ii. Deficiency of  $\geq 3$  pituitary hormones (i.e., ACTH, TSH, LH, FSH, prolactin);
    - iii. GHD-specific mutation (e.g., POU1F1, PROP1, LHX3, LHX4, HESX1, OTX2, TBX19, SOX2, SOX3, GLI2, GHRHR, GH1);
7. The requested product is not prescribed concurrently with Increlex (mecasermin);
8. One of the following (a or b):
  - a. Request is for a long-acting formulation (Skytrofa\*, Sogroya\*);

- b. Request is NOT for Norditropin, Omnitrope cartridge, Skytrofa or Sogroya and one of the following (i, ii, or iii):
    - i. Member must use Norditropin\* and Omnitrope cartridge\*;
    - ii. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
    - iii. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;
- \*Prior authorization may be required for Norditropin, Omnitrope, Skytrofa, and Sogroya*
- 9. Dose does not exceed one of the following (a, b or c):
    - a. For Sogroya: 8 mg once weekly;
    - b. For somatotropin agents: 0.4 mg/day (may adjust by up to 0.2 mg/day every 4 weeks to maintain normal IGF-1 serum levels; doses > 1.6 mg/day would be uncommon);
    - c. For Skytrofa: 6.3 mg once weekly.

**Approval duration: 12 months**

**H. HIV-Associated Wasting or Cachexia (must meet all):**

- 1. Diagnosis of HIV;
  - 2. Request is for a somatotropin formulation;
  - 3. Prescribed by or in consultation with a physician specializing in HIV management;
  - 4. Age  $\geq$  18 years;
  - 5. Member meets one of the following (a, b, or c):
    - a. Unintentional weight loss of  $\geq$  10% in the last 12 months occurring while on antiretroviral therapy;
    - b. Unintentional weight loss of  $\geq$  5% in the last 6 months occurring while on antiretroviral therapy;
    - c. Body mass index (BMI)  $\leq$  20 kg/m<sup>2</sup>;
  - 6. Failure of at least 2 pharmacologic therapies from two separate drug classes (*Appendix B*) unless contraindicated or clinically adverse effects are experienced;
  - 7. Member is currently on antiretroviral therapy;
  - 8. If request is NOT for Norditropin or Omnitrope cartridge, one of the following (a, b, or c):
    - a. Member must use Norditropin\* and Omnitrope cartridge\*;
    - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
    - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;
- \*Prior authorization may be required for Norditropin and Omnitrope*
- 9. Requested duration of therapy does not exceed 12 months;
  - 10. Dose does not exceed 6 mg per day.

**Approval duration: 12 months (up to 12 months total)**

**I. Other diagnoses/indications**

- 1. If request is NOT for Norditropin or Omnitrope cartridge one of the following (a, b, or c):
  - a. Member must use Norditropin\* and Omnitrope cartridge\*;

- b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
- c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;

\*Prior authorization may be required for Norditropin and Omnitrope

- 2. Member meets one of the following (a or b):
  - a. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (i or ii):
    - i. For drugs on the, the no coverage criteria policy: CP.PMN.255; or
    - ii. For drugs NOT on the formulary, the non-formulary: CP.PMN.16; or
  - b. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53

## II. Continued Therapy

### A. All Pediatric Indications (*open epiphyses*) (must meet all):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
- 2. Age < 18 years OR open epiphysis on x-ray;
- 3. Member meets one of the following (a or b):
  - a. For diagnosis of neonatal hypoglycemia, when member has received somatropin therapy for  $\geq 2$  years, member's height has increased  $\geq 2$  cm in the last year as documented by 2 height measurements taken no more than 1 year apart (dates and height measurements required);
  - b. For all other pediatric diagnoses, member's height has increased  $\geq 2$  cm in the last year as documented by 2 height measurements taken no more than 1 year apart (dates and height measurements required);
- 4. If request is for a dose increase, request meets one of the following (a, b, c, d, or e):
  - a. GHD, one of the following (i, ii, iii, or iv):
    - i. For Ngenla (without neonatal hypoglycemia): New dose does not exceed 0.66 mg/kg per week;
    - ii. For Skytrofa (without neonatal hypoglycemia): New dose does not exceed 0.24 mg/kg per week;
    - iii. For Sogroya (without neonatal hypoglycemia): New dose does not exceed 0.16 mg/kg per week;
    - iv. For somatropin agents (with or without neonatal hypoglycemia): New dose does not exceed 0.30 mg/kg per week;
  - b. PWS: New dose does not exceed 0.24 mg/kg per week;
  - c. TS, NS: New dose does not exceed 0.5 mg/kg per week;
  - d. SHOX deficiency, CKD: New dose does not exceed 0.35 mg/kg per week;
  - e. Born SGA: New dose does not exceed 0.48 mg/kg per week.

**Approval duration: 12 months**

### B. Growth Hormone Deficiency – Adults and Transition Patients (*closed epiphyses*) (must meet all):

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies;
2. Member is responding positively to therapy;
3. For IGF-1 test results and dosing (test conducted within the last 90 days), one of the following (a, b, or c):
  - a. Low IGF-1 serum level (i, ii or iii):
    - i. For Sogroya: 8 mg once weekly;
    - ii. For somatotropin formulations: If request is for a dose increase, new dose does not exceed an incremental increase of more than 0.2 mg/day and a total dose of 1.6 mg/day;
    - iii. For Skytrofa: 6.3 mg once weekly;
  - b. Normal IGF-1 serum level: Requested dose is for the same or lower dose;
  - c. Elevated IGF-1 serum level: Requested dose has been titrated downward.

**Approval duration: 12 months**

**C. HIV-Associated Wasting/Cachexia - Adults** (must meet all):

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.PHARM.01) applies.
2. Member is responding positively to therapy;
3. Member has not received  $\geq$  12 months of therapy;
4. If request is for a dose increase, new dose does not exceed 6 mg per day.

**Approval duration: 12 months (up to 12 months total)**

**D. Idiopathic Short Stature:**

1. Use of Growth Hormones for the treatment of Idiopathic Short Stature is a benefit exclusion and will not be authorized because it is considered cosmetic in nature.

**Approval duration: Not applicable**

**E. Other diagnoses/indications** (must meet 1 or 2):

1. If request is NOT for Norditropin or Omnitrope cartridge one of the following (a, b, or c):
  - a. Member must use Norditropin\* and Omnitrope cartridge\*;
  - b. If both Norditropin and Omnitrope cartridge are not available (e.g., due to drug shortages) member must use Omnitrope\* vial, unless contraindicated or clinically significant adverse effects are experienced;
  - c. Norditropin and Omnitrope cartridge are all contraindicated or clinically significant adverse effects are experienced;

*\*Prior authorization may be required for Norditropin and Omnitrope*
2. Member meets one of the following (a or b):
  - a. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (i or ii):
    - i. For drugs on the, the no coverage criteria policy: CP.PMN.255; or
    - ii. For drugs NOT on the formulary, the non-formulary: CP.PMN.16; or

- b. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53

**III. Diagnoses/Indications for which coverage is NOT authorized:**

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.PMN.53
- B. Idiopathic short stature (ISS);
- C. Constitutional delay of growth and puberty (i.e., constitutional growth delay; the member’s growth rate is delayed compared to chronological age but appropriate for bone age as determined by x-ray);
- D. Familial (genetic) short stature (i.e., height velocity and bone age, as determined by x- ray, are within the normal range and one or both parents are short);
- E. Adult short stature or altered body habitus associated with antiviral therapy (other than HIV-associated wasting or cachexia);
- F. Obesity treatment or enhancement of body mass/strength for non-medical reasons (e.g., athletic gains).

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

AO: adult-onset	ISS: idiopathic short stature
CKD: chronic kidney disease	NS: Noonan syndrome
CO: childhood-onset	PWS: Prader-Willi syndrome
FDA: Food and Drug Administration	rhGH: recombinant human growth hormone
GF: growth failure	SD: standard deviation
GFR: glomerular filtration rate	SGA: small for gestational age
GH: growth hormone	SHOX: short stature homeobox-containing gene
GHD: growth hormone deficiency	SS: short stature
hGH: human growth hormone	TS: Turner syndrome
HIV: human immunodeficiency virus	
IGF-1: insulin-like growth factor-1	
IGFBP-3: insulin-like growth factor binding protein-3	

*Appendix B: Therapeutic Alternatives*

*This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent and may require prior authorization.*

Drug*	Dosing Regimen	Dose Limit/Maximum Dose
<i>Appetite Stimulants</i>		
megestrol (Megace <sup>®</sup> , Syndros <sup>®</sup> )	400 - 800 mg PO daily (10 – 20 ml/day)	800 mg/day

dronabinol (Marinol®)	2.5 mg PO BID	20 mg/day
<b>Testosterone Replacement Products</b>		
testosterone enanthate or cypionate (various brands)	50 - 400 mg IM Q2 – 4 wks	400 mg Q 2 wks
Androderm® (testosterone transdermal patch)	2.5 – 7.5 mg patch applied topically QD	7.5 mg/day
testosterone transdermal gel (Androgel®, Testim®)	5 - 10 gm gel (delivers 50 – 100 mg testosterone) applied topically QD	10 gm/day gel (100 mg/day testosterone)
<b>Anabolic Steroids</b>		
oxandrolone (Oxandrin®)	2.5 – 20 mg PO /day	20 mg/day
<b>Nausea/Vomiting Treatments</b>		
chlorpromazine	10 to 25 mg PO q4 to 6 hours prn	2,000 mg/day
perphenazine	8 to 16 mg/day PO in divided doses	64 mg/day
prochlorperazine	5 to 10 mg PO TID or QID	40 mg/day
promethazine	12.5 to 25 mg PO q4 to 6 hours prn	50 mg/dose; 100 mg/day
trimethobenzamide	300 mg PO TID or QID prn	1,200 mg/day

*Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.*

*\*Preferred status may be formulary specific.*

#### *Appendix C: Contraindications/Boxed Warnings*

- Contraindications:
  - Acute critical illness
  - Children with PWS who are severely obese, have history of upper airway obstruction or sleep apnea, or have severe respiratory impairment due to risk of sudden death
  - Active malignancy
  - Hypersensitivity to product or any of the excipients
  - Active proliferative or severe non-proliferative diabetic retinopathy
  - Children with closed epiphyses
- Boxed warning(s): none reported

#### *Appendix D: Short Stature and Growth Failure*

- For SS, the policy follows the World Health Organization (WHO) definition of > 2 SD below the mean for age and sex.<sup>1</sup>
- For GF, the policy follows:
  - Haymond et al (2013) and Rogol et al (2014) for height deceleration across two major percentiles representing a change of > 1 SD corrected for age and sex<sup>2,3</sup> and
  - the Growth Hormone Research Society (2000) for height velocity in the absence of SS that would prompt further investigation, namely, a height velocity > 2 SD below the mean over 1 year or > 1.5 SD below the mean sustained over 2 years for age and sex.<sup>4</sup>
- The Centers for Disease Control and Prevention (CDC) recommend WHO growth charts for infants and children age 0 to < 2 years and CDC growth charts for children age 2 years to < 20 years in the U.S.<sup>5</sup>
  - Based on CDC recommended growth chart data, SD approximations of major height

- percentiles falling below the mean are listed below:
- 2nd percentile: 2 SD below the mean
  - 5th percentile: 1.5 SD below the mean
  - 15th percentile: 1 SD below the mean
  - 30th percentile: 0.5 SD below the mean
  - 50th percentile: 0 SD mean
- CDC recommended growth charts, data tables, and related information that may be helpful in assessing length, height and growth are available at the following link:  
<https://www.cdc.gov/growthcharts/index.htm>.

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## V. Dosage and Administration

Drug Name	Indication	Dosing Regimen	Maximum Dose
<b><i>Pediatric Indications (Subcutaneous administration; weekly doses should be divided [except Skytrofa, Sogroya, and Ngenla])</i></b>			
Genotropin, Humatrope, Norditropin, Nutropin, Omnitrope, Saizen, Zomacton	GHD	G, O: 0.16 to 0.24 mg/kg/week H, Z: 0.18 to 0.30 mg/kg/week N: 0.17 to 0.24 mg/kg/week Nu: to 0.30 mg/kg/week S: 0.18 mg/kg/week	See dosing regimens
Genotropin, Norditropin, Omnitrope	PWS	G, N, O: 0.24 mg/kg/week	0.24 mg/kg/week
Genotropin, Humatrope, Norditropin, Omnitrope, Zomacton	SGA	G, O: to 0.48 mg/kg/week H, N, Z: to 0.47 mg/kg/week	0.48 mg/kg/week
Genotropin, Humatrope, Norditropin, Nutropin, Omnitrope, Zomacton	TS	G, O: 0.33 mg/kg/week H, Nu, Z: to 0.375 mg/kg/week N: to 0.47 mg/kg/week	See dosing regimens
Humatrope, Zomacton	SHOX	H, Z: 0.35 mg/kg/week	0.35 mg/kg/week
Norditropin	NS	0.46 mg/kg/week	0.46 mg/kg/week
Nutropin	CKD	0.35 mg/kg/week	0.35 mg/kg/week
Skytrofa	GHD	0.24 mg/kg/once weekly	0.24 mg/kg/week
Sogroya	GHD	0.16 mg/kg once weekly	0.16 mg/kg/week

Ngenla	GHD	0.66 mg/kg once weekly	0.66 mg/kg/week
<b>Adult Indications (Subcutaneous administration)</b>			
Genotropin, Humatrope, Norditropin, Nutropin, Omnitrope, Saizen, Zomacton	GHD	0.4 mg/day - may adjust by increments up to 0.2 mg/day every 6 weeks to maintain normal IGF-1 serum levels.*  *Dosing regimen from Endocrine Society guidelines (Fleseriu, et al., 2016).  Adult GHD dosing should be substantially lower than that prescribed for children. Adult doses beyond 1.6 mg/day would be uncommon.	See dosing regimen
Serostim	HIV-associated wasting	0.1 mg/kg QOD or QD to 6 mg QD	6 mg/day up to 24 weeks
Skytrofa	GHD	<ul style="list-style-type: none"> <li>1.4 mg once weekly for adults 30 to 60 years old, with no oral estrogen intake</li> <li>2.1 mg once weekly for adults &lt; 30 years old, or adults of any age intaking oral estrogen</li> <li>0.7 mg once weekly for adults &gt; 60 years old, with no oral estrogen intake</li> </ul> <p>Increase the dose monthly to a higher strength cartridge based on the clinical response and/or IGF-1 concentration</p>	6.3 mg/week
Sogroya	GHD	1.5 mg once weekly – increase by increments of 0.5-1.5 mg every 2-4 weeks based on clinical response and serum IGF-1 concentrations	8 mg/week

## V. Product Availability

Drug	Availability*
<b>hGH Analogs</b>	
Sogroya	MD pens: 5 mg/1.5 mL, 10 mg/1.5 mL, 15 mg/1.5 mL
<b>rhGH Formulations</b>	
Genotropin lyophilized powder	MD dual-chamber syringes: 5 mg, 12 mg
Genotropin Miniquick	SD pen cartridges: 0.2 mg, 0.4 mg, 0.6 mg, 0.8 mg, 1.0 mg, 1.2 mg, 1.4 mg, 1.6 mg, 1.8 mg, 2.0 mg
Humatrope	MD pen cartridges: 6 mg, 12 mg, 24 mg MD vial: 5mg

Ngenla	MD pens: 24 mg/1.2 mL, 60 mg/1.2 mL
Norditropin Flexpro	MD pens: 5 mg/1.5 mL, 10 mg/1.5 mL, 15 mg/1.5 mL, 30 mg/3 mL
Nutropin AQ NuSpin	MD: 5 mg/2 mL, 10 mg/2 mL, 20 mg/2 mL MD pen cartridges: 10 mg/2 mL, 20 mg/2 mL
Omnitrope	MD pen cartridges: 5 mg/1.5 mL, 10 mg/1.5 mL MD vial: 5.8 mg
Saizen	MD pen cartridges: 8.8 mg MD vials: 5 mg, 8.8 mg
Serostim	MD vial: 4 mg SD vials: 5 mg, 6 mg
Skytrofa	SD prefilled cartridges: 0.7 mg, 1.4 mg, 1.8 mg, 2.1 mg, 2.5 mg, 3 mg, 3.6 mg, 4.3 mg, 5.2 mg, 6.3 mg, 7.6 mg, 9.1 mg, 11 mg, 13.3 mg
Zomacton	MD vials: 5 mg, 10 mg

*SD: single-dose, MD: multidose*

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**Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J2941	Injection, somatropin, 1 mg
C9399	Unclassified drugs or biologics

HCPCS Codes	Description
J3590	Unclassified biologics

Reviews, Revisions, and Approvals	Date
Policy created	09/2025
<p>1Q 2026 annual review: added Sogroya as a co-preferred long-acting growth hormone alongside Skytrofa; RT4: for Skytrofa, added new indication for replacement of endogenous GH in adults with GHD and added new cartridge strengths (0.7 mg, 1.4 mg, 1.8 mg, 2.1 mg, 2.5 mg); removed Zorbtive from policy due to market discontinuation; removed criteria for short bowel syndrome due to lack of support by AGA; for HIV-associated wasting, added option for unintentional weight loss of <math>\geq</math> 5% in the last 6 months while on antiretroviral and removed use of ideal body weight criteria per update 2024 consensus expert statement; extended initial approval duration from 6 to 12 months for this maintenance medication for a chronic condition; references reviewed and updated.</p>	01/2026