RS1826 - Somatropin

Prader-Willi syndrome - INITIATION	5
Prader-Willi syndrome - CONTINUATION	5
Turner syndrome - INITIATION	2
Turner syndrome - CONTINUATION	3
Adults and adolescents - INITIATION	6
Adults and adolescents - CONTINUATION	7
Growth hormone deficiency in children - INITIATION	2
Growth hormone deficiency in children - CONTINUATION	2
Short stature due to chronic renal insufficiency - INITIATION	4
Short stature due to chronic renal insufficiency - CONTINUATION	4
Short stature without growth hormone deficiency - INITIATION	3
Short stature without growth hormone deficiency - CONTINUATION	3

I confirm that the above details are correct:

Signed: Date:

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

May 2025

Use this checklist to determine if a patient meets the restrictions for funding in the **hospital setting**. For more details, refer to Section H of the Pharmaceutical Schedule. For community funding, see the Special Authority Criteria.

PRES	CRII	ER PATIENT:
Name	:	Name:
Ward		NHI:
Som	atro	pin
INITI Re-a	ATIO ssess equis	N – growth hormone deficiency in children ment required after 12 months ites (tick boxes where appropriate) Prescribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been indorsed by the Health NZ Hospital. Growth hormone deficiency causing symptomatic hypoglycaemia, or with other significant growth hormone deficient sequelae (e.g. cardiomyopathy, hepatic dysfunction) and diagnosed with GH < 5 mcg/l on at least two random blood samples in the first 2 weeks of life, or from samples during established hypoglycaemia (whole blood glucose < 2 mmol/l using a laboratory device) Height velocity < 25th percentile for age; and adjusted for bone age/pubertal status if appropriate over 6 or 12 months using the standards of Tanner and Davies (1985) A current bone age is < 14 years (female patients) or < 16 years (male patients) Peak growth hormone value of < 5.0 mcg per litre in response to two different growth hormone stimulation tests. In children who are 5 years or older, GH testing with sex steroid priming is required If the patient has been treated for a malignancy, they should be disease free for at least one year based upon follow-up laboratory and radiological imaging appropriate for the malignancy, unless there are strong medical reasons why this is either not necessary or appropriate
Appropriate imaging of the pituitary gland has been obtained CONTINUATION – growth hormone deficiency in children Re-assessment required after 12 months Prerequisites (tick boxes where appropriate) O Prescribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been endorsed by the Health NZ Hospital.		
and	and and and	A current bone age is 14 years or under (female patients) or 16 years or under (male patients) Height velocity is greater than or equal to 25th percentile for age (adjusted for bone age/pubertal status if appropriate) while on growth hormone treatment, as calculated over six months using the standards of Tanner and Davis (1985) Height velocity is greater than or equal to 2.0 cm per year, as calculated over 6 months No serious adverse effect that the patients specialist considers is likely to be attributable to growth hormone treatment has occurred No malignancy has developed since starting growth hormone
Re-a	ssess equis	N – Turner syndrome ment required after 12 months ites (tick boxes where appropriate) Prescribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been endorsed by the Health NZ Hospital.
	and	The patient has a post-natal genotype confirming Turner Syndrome Height velocity is < 25th percentile over 6-12 months using the standards of Tanner and Davies (1985) A current bone age is < 14 years

I confirm that the above details are correct:

Signed: Date:

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

May 2025

Use this checklist to determine if a patient meets the restrictions for funding in the **hospital setting**. For more details, refer to Section H of the Pharmaceutical Schedule. For community funding, see the Special Authority Criteria.

PRESCRIBER	PATIENT:
Name:	
Ward:	NHI:
Somatropin -	- continued
Re-assessment Prerequisites (t	N – Turner syndrome required after 12 months tick boxes where appropriate) ibed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been seed by the Health NZ Hospital.
and H	Height velocity greater than or equal to 50th percentile for age (while on growth hormone calculated over 6 to 12 months using the Ranke's Turner Syndrome growth velocity charts) Height velocity is greater than or equal to 2 cm per year, calculated over six months A current bone age is 14 years or under No serious adverse effect that the specialist considers is likely to be attributable to growth hormone treatment has occurred
	No malignancy has developed since starting growth hormone
Re-assessment Prerequisites (t Prescr endors and and and and and	nort stature without growth hormone deficiency required after 12 months lick boxes where appropriate) sibed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been seed by the Health NZ Hospital. The patient's height is more than 3 standard deviations below the mean for age or for bone age if there is marked growth acceleration for delay Height velocity is < 25th percentile for age (adjusted for bone age/pubertal status if appropriate), as calculated over 6 to 12 months using the standards of Tanner and Davies(1985) A current bone age is < 14 years (female patients) or < 16 years (male patients) The patient does not have severe chronic disease (including malignancy or recognized severe skeletal dysplasia) and is not receiving medications known to impair height velocity
Re-assessment Prerequisites (t Prescr endors and and and and and and	N – short stature without growth hormone deficiency required after 12 months tick boxes where appropriate) iibed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been sed by the Health NZ Hospital. Height velocity is greater than or equal to 50th percentile (adjusted for bone age/pubertal status if appropriate) as calculated over 6 to 12 months using the standards of Tanner and Davies (1985) Height velocity is greater than or equal to 2 cm per year as calculated over six months Current bone age is 14 years or under (female patients) or 16 years or under (male patients) No serious adverse effect that the patient's specialist considers is likely to be attributable to growth hormone treatment has occurred

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

Use this checklist to determine if a patient meets the restrictions for funding in the **hospital setting**. For more details, refer to Section H of the Pharmaceutical Schedule. For community funding, see the Special Authority Criteria.

PRES	CRIBER	PATIENT:		
Name	:			
Ward:		NHI:		
Soma	atropir	n - continued		
INITI	ATION – ssessme	short stature due to chronic renal insufficiency ent required after 12 months		
Prere	equisites	s (tick boxes where appropriate)		
and	Prescribed by, or recommended by an endocrinologist, paediatric endocrinologist or renal physician on the recommendation of a endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been endorsed by the Health NZ Hospital.			
	and	The patient's height is more than 2 standard deviations below the mean		
	and	Height velocity is < 25th percentile (adjusted for bone age/pubertal status if appropriate) as calculated over 6 to 12 months using the standards of Tanner and Davies (1985)		
	and	A current bone age is to 14 years or under (female patients) or to 16 years or under (male patients)		
	and	The patient is metabolically stable, has no evidence of metabolic bone disease and absence of any other severe chronic disease		
	and	The patient is under the supervision of a specialist with expertise in renal medicine		
		O The patient has a GFR less than or equal to 30 ml/min/1.73 m² as measured by the Schwartz method (Height(cm)/plasma creatinine (umol/l × 40 = corrected GFR (ml/min/1.73 m²) in a child who may or may not be receiving dialysis		
	OI	The patient has received a renal transplant and has received < 5mg/ m² /day of prednisone or equivalent for at least 6 months		
Re-as	ssessme	ION – short stature due to chronic renal insufficiency ent required after 12 months s (tick boxes where appropriate)		
(and	O Prescribed by, or recommended by an endocrinologist, paediatric endocrinologist or renal physician on the recommendation of a endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been endorsed by the Health NZ Hospital.			
	O	Height velocity is greater than or equal to 50th percentile (adjusted for bone age/pubertal status if appropriate) as calculated over 6 to 12 months using the standards of Tanner and Davies (1985)		
	and	Height velocity is greater than or equal to 2 cm per year as calculated over six months		
	and	A current bone age is 14 years or under (female patients) or 16 years or under (male patients)		
	O	No serious adverse effect that the patients specialist considers is likely to be attributable to growth hormone has occurred		
	and	No malignancy has developed after growth hormone therapy was commenced		
	and	The patient has not experienced significant biochemical or metabolic deterioration confirmed by diagnostic results		
	and	The patient has not received renal transplantation since starting growth hormone treatment		
	and	If the patient requires transplantation, growth hormone prescription should cease before transplantation and a new application should be made after transplantation based on the above criteria		

I confirm that the above details are correct:

Signed: Date:

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

Use this checklist to determine if a patient meets the restrictions for funding in the **hospital setting**. For more details, refer to Section H of the Pharmaceutical Schedule. For community funding, see the Special Authority Criteria.

PRESCRIBER	PATIENT:
Name:	Name:
Ward:	NHI:
Somatropin	- continued
INITIATION – I Re-assessmen Prerequisites	Prader-Willi syndrome nt required after 12 months (tick boxes where appropriate) cribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been resed by the Health NZ Hospital. The patient has a diagnosis of Prader-Willi syndrome that has been confirmed by genetic testing or clinical scoring criteria The patient is aged six months or older A current bone age is < 14 years (female patients) or < 16 years (male patients) Sleep studies or overnight oximetry have been performed and there is no obstructive sleep disorder requiring treatment, or if an obstructive sleep disorder is found, it has been adequately treated under the care of a paediatric respiratory physician and/or ENT
and	The patient is aged two years or older and There is no evidence of type II diabetes or uncontrolled obesity defined by BMI that has increased by greater than or equal to 0.5 standard deviations in the preceding 12 months The patient is aged between six months and two years and a thorough upper airway assessment is planned to be undertaken prior to treatment commencement and at six to 12 weeks following treatment initiation
Prerequisites Preso	ON – Prader-Willi syndrome nt required after 12 months (tick boxes where appropriate) cribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been rised by the Health NZ Hospital.
and on an analysis of an an	Height velocity is greater than or equal to 50th percentile (adjusted for bone age/pubertal status if appropriate) as calculated over 6 to 12 months using the standards of Tanner and Davies (1985) Height velocity is greater than or equal to 2 cm per year as calculated over six months A current bone age is 14 years or under (female patients) or 16 years or under (male patients) No serious adverse effect that the patient's specialist con siders is likely to be attributable to growth hormone treatment has occurred No malignancy has developed after growth hormone therapy was commenced The patient has not developed type II diabetes or uncontrolled obesity as defined by BMI that has increased by greater than or equal to 0.5 standard deviations in the preceding 12 months

I confirm that the above details are correct:

Signed: Date:

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

utical

PRESCRIBER	PATIENT:		
Name:	Name:		
Ward:	NHI:		
Somatropin - continued			
INITIATION – adults and adolescents			
Re-assessment required after 12 months Prerequisites (tick boxes where appropriate)			
	or paediatric endocrinologist, or in accordance with a protocol or guideline that has been		
The patient has a medical condition that is known to cause growth hormone deficiency (e.g. surgical removal of the pituitary for treatment of a pituitary tumour)			
	of other hormonal deficiencies and psychological illnesses		
The patient has severe growth hormone deficience	ey (see notes)		
The patient's serum IGF-I is more than 1 standard	d deviation below the mean for age and sex		
	a score of 16 or more using the disease-specific quality of life questionnaire for adult		
equal to 3 mcg per litre during an adequately performed insulin to Patients with one or more additional anterior pituitary hormone de isolated growth hormone deficiency require two growth hormone an additional test is required, an arginine provocation test can be The dose of somatropin should be started at 0.2 mg daily and be for age and sex; and The dose of somatropin not to exceed 0.7 mg per day for male page.	eficiencies and a known structural pituitary lesion only require one test. Patients with stimulation tests, of which, one should be ITT unless otherwise contraindicated. Where used with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre. titrated by 0.1 mg monthly until it is within 1 standard deviation of the mean normal value		

I confirm that the above details are correct:		
Signad:	Doto	

I confirm that the above details are correct:

Signed: Date:

HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

May 2025

Use this checklist to determine if a patient meets the restrictions for funding in the **hospital setting**. For more details, refer to Section H of the Pharmaceutical Schedule. For community funding, see the Special Authority Criteria.

PRESCRIBER				PATIENT:
Name:			Name:	
Ward:				NHI:
Soma	atro	oin - con	tinued	
Re-as	sess	ment requ	dults and adolescents ired after 12 months oxes where appropriate)	
and			by, or recommended by an endocrinologist or paediatric y the Health NZ Hospital.	endocrinologist, or in accordance with a protocol or guideline that has been
		and	The patient has been treated with somatropin for < 12 r	months
		O	There has been an improvement in the Quality of Life As Life Assessment of Growth Hormone Deficiency in Adult	ssessment defined as a reduction of at least 8 points on the Quality of ts (QoL-AGHDA®) score from baseline
		and and	Serum IGF-I levels have increased to within ±1SD of the	e mean of the normal range for age and sex
		0	The dose of somatropin does not exceed 0.7 mg per day	y for male patients, or 1 mg per day for female patients
	or	O	The patient has been treated with somatropin for more t	han 12 months
		and	The patient has not had a deterioration in Quality of Life score on treatment (other than due to obvious external for	defined as a 6 point or greater increase from their lowest QoL-AGHDA® actors such as external stressors)
		and	Serum IGF-I levels have continued to be maintained with for obvious external factors)	hin ±1SD of the mean of the normal range for age and sex (other than
		and	The dose of somatropin has not exceeded 0.7 mg per de	ay for male patients or 1 mg per day for female patients
	or	\bigcirc		
		and	renewal criteria under this indication	natropin for childhood deficiency in children and no longer meets the
		and _	The patient has undergone appropriate treatment of other	er hormonal deficiencies and psychological illnesses
		and	The patient has severe growth hormone deficiency (see	notes)
		and	The patient's serum IGF-I is more than 1 standard devia	tion below the mean for age and sex
		0	The patient has poor quality of life, as defined by a score for adult growth hormone deficiency (QoL-AGHDA®)	e of 16 or more using the disease-specific quality of life questionnaire
equal Patier isolate an ad The d mean The d At the	to 3 nts with the distriction of	mcg per lit th one or lowth horm all test is r of somatro nal value for of somatro	re during an adequately performed insulin tolerance test more additional anterior pituitary hormone deficiencies ar one deficiency require two growth hormone stimulation to equired, an arginine provocation test can be used with a pin should be started at 0.2 mg daily and be titrated by 0 or age and sex; and pin not to exceed 0.7 mg per day for male patients, or 1 mg per day for male patients, or 1 mg per day for male patients, or 1 mg per day for male patients.	id a known structural pituitary lesion only require one test. Patients with ests, of which, one should be ITT unless otherwise contraindicated. Where peak serum growth hormone level of less than or equal to 0.4 mcg per litre. 1 mg monthly until the serum IGF-I is within 1 standard deviation of the