#### RS1826 - Somatropin

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I confirm that the above details are correct:

Signed: ...... Date: .....

# HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

July 2024

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
Re-a	ssess equis	ATION – 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 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

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PRESCRIBER	PATIENT:
Name:	
Ward:	NHI:
Somatropir	- continued
Re-assessme	ON – Turner syndrome nt required after 12 months s (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 breed by the Health NZ Hospital.
and	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)
and	Height velocity is greater than or equal to 2 cm per year, calculated over six months
and	A current bone age is 14 years or under
and	No serious adverse effect that the specialist considers is likely to be attributable to growth hormone treatment has occurred
O	No malignancy has developed since starting growth hormone
Re-assessme Prerequisites  O Pres	short stature without growth hormone deficiency Intrequired after 12 months Is (tick boxes where appropriate) It is derived by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been brised 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 or 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
Prese endo	ON – short stature without growth hormone deficiency introduced after 12 months (cick boxes where appropriate)  scribed by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been brised by the Health NZ Hospital.
and and and and and	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

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PRESCRIBER			PATIENT:
Name:			Name:
Ward: .			NHI:
Somat	tropin	- continued	
INITIAT Re-ass	ΓΙΟΝ – sessmer	short stature due to chronic renal insufficiency trequired after 12 months (tick boxes where appropriate)	
and		cribed by, or recommended by an endocrinologist, paediatric er ediatric endocrinologist, or in accordance with a protocol or gui	docrinologist or renal physician on the recommendation of a endocrinologist deline that has been endorsed by the Health NZ Hospital.
	ond a	The patient's height is more than 2 standard deviations below	the mean
а	ind _	Height velocity is < 25th percentile (adjusted for bone age/pub standards of Tanner and Davies (1985)	ertal status if appropriate) as calculated over 6 to 12 months using the
а	nd O	A current bone age is to 14 years or under (female patients) o	r to 16 years or under (male patients)
а	nd O	The patient is metabolically stable, has no evidence of metabolically	olic bone disease and absence of any other severe chronic disease
а	ond O	The patient is under the supervision of a specialist with expert	ise in renal medicine
		The patient has a GFR less than or equal to 30 ml/min/ creatinine (umol/l × 40 = corrected GFR (ml/min/1.73 m²	1.73 m² as measured by the Schwartz method (Height(cm)/plasma ²) in a child who may or may not be receiving dialysis
	or	O The patient has received a renal transplant and has received	eived < 5mg/ m²/day of prednisone or equivalent for at least 6 months
Re-ass	essmer	ON – short stature due to chronic renal insufficiency at required after 12 months (tick boxes where appropriate)	
and		cribed by, or recommended by an endocrinologist, paediatric er ediatric endocrinologist, or in accordance with a protocol or gui	docrinologist or renal physician on the recommendation of a endocrinologist deline that has been endorsed by the Health NZ Hospital.
		Height velocity is greater than or equal to 50th percentile (adju- 12 months using the standards of Tanner and Davies (1985)	sted for bone age/pubertal status if appropriate) as calculated over 6 to
		Height velocity is greater than or equal to 2 cm per year as cal	culated over six months
		A current bone age is 14 years or under (female patients) or 1	6 years or under (male patients)
	ind O	No serious adverse effect that the patients specialist considers	s is likely to be attributable to growth hormone has occurred
а	ond	No malignancy has developed after growth hormone therapy w	vas commenced
а	ond	The patient has not experienced significant biochemical or me	tabolic deterioration confirmed by diagnostic results
а	ond	The patient has not received renal transplantation since starting	ng growth hormone treatment
а		If the patient requires transplantation, growth hormone prescribe made after transplantation based on the above criteria	ption should cease before transplantation and a new application should

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PRESCRIBER	R PATIEN	1:
Name:	Name:	
Ward:	NHI:	
Somatropin	in - continued	
Presented and	— Prader-Willi syndrome hent required after 12 months es (tick boxes where appropriate)  escribed by, or recommended by an endocrinologist or paediatric endocrinodorsed by the Health NZ Hospital.  The patient has a diagnosis of Prader-Willi syndrome that has been con	
and and and	The patient is aged six months or older  A current bone age is < 14 years (female patients) or < 16 years (male  Sleep studies or overnight oximetry have been performed and there is nobstructive sleep disorder is found, it has been adequately treated unde surgeon	o obstructive sleep disorder requiring treatment, or if an
OI	The patient is aged two years or older  There is no evidence of type II diabetes or uncontrolled obe equal to 0.5 standard deviations in the preceding 12 months  The patient is aged between six months and two years and a thor prior to treatment commencement and at six to 12 weeks following	bugh upper airway assessment is planned to be undertaken
Prerequisites  Preserved  Preserved	FION - Prader-Willi syndrome nent required after 12 months es (tick boxes where appropriate) escribed by, or recommended by an endocrinologist or paediatric endocrino dorsed by the Health NZ Hospital.	ogist, or in accordance with a protocol or guideline that has been
and on an analysis of an	Height velocity is greater than or equal to 50th percentile (adjusted for b 12 months using the standards of Tanner and Davies (1985)  Height velocity is greater than or equal to 2 cm per year as calculated or A current bone age is 14 years or under (female patients) or 16 years or No serious adverse effect that the patient's specialist con siders is likely No malignancy has developed after growth hormone therapy was comm	ver six months r under (male patients) to be attributable to growth hormone treatment has occurred
and	The patient has not developed type II diabetes or uncontrolled obesity a to 0.5 standard deviations in the preceding 12 months	s defined by BMI that has increased by greater than or equal

I confirm that the above details are correct:

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Signed.	Date.
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## HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

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PRESCRIBER	PATIENT:
Name:	Name:
Ward:	NHI:
Somatropin - continued	
INITIATION – adults and adolescents Re-assessment required after 12 months Prerequisites (tick boxes where appropriate)	
Prescribed by, or recommended by an endocrinolog endorsed by the Health NZ Hospital.	gist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been
The patient has a medical condition that is kn treatment of a pituitary tumour)	own to cause growth hormone deficiency (e.g. surgical removal of the pituitary for
	nent of other hormonal deficiencies and psychological illnesses
O The patient has severe growth hormone defic	iency (see notes)
· ·	dard deviation below the mean for age and sex
The patient has poor quality of life, as defined growth hormone deficiency (QoL-AGHDA®)	by 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 insul Patients with one or more additional anterior pituitary hormon isolated growth hormone deficiency require two growth hormon an additional test is required, an arginine provocation test car The dose of somatropin should be started at 0.2 mg daily and for age and sex; and The dose of somatropin not to exceed 0.7 mg per day for mal	the deficiencies and a known structural pituitary lesion only require one test. Patients with one stimulation tests, of which, one should be ITT unless otherwise contraindicated. Where in be used with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre. It is be titrated by 0.1 mg monthly until it is within 1 standard deviation of the mean normal value

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