#### RS1826 - Somatropin

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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.

PRES	CRIE	RIBER PATIEN	r:		
Name	e:	Name:			
Ward:		NHI:			
Som	atro	ropin			
Re-a	ssess equis	ION – growth hormone deficiency in children essment required after 12 months uisites (tick boxes where appropriate)  Prescribed by, or recommended by an endocrinologist or paediatric endocrinologist or behavior and the control of the Health NZ Hospital.	logist, or in accordance with a protocol or guideline that has been		
and	or	Growth hormone deficiency causing symptomatic hypoglycaemia, or wit cardiomyopathy, hepatic dysfunction) and diagnosed with GH < 5 mcg/l life, or from samples during established hypoglycaemia (whole blood glife).  Height velocity < 25th percentile for age; and adjusted for bone age standards of Tanner and Davies (1985)	on at least two random blood samples in the first 2 weeks of ucose < 2 mmol/l using a laboratory device)		
		and  A current bone age is < 14 years (female patients) or < 16 years (and  Peak growth hormone value of < 5.0 mcg per litre in response to who are 5 years or older, GH testing with sex steroid priming is reand  If the patient has been treated for a malignancy, they should be dilaboratory and radiological imaging appropriate for the malignance not necessary or appropriate  Appropriate imaging of the pituitary gland has been obtained	wo different growth hormone stimulation tests. In children quired sease free for at least one year based upon follow-up		
Re-a	ssess equis	NUATION – growth hormone deficiency in children essment required after 12 months uisites (tick boxes where appropriate)  Prescribed by, or recommended by an endocrinologist or paediatric endocrinologist endocrinologist or paediatric endocrinologist endoc	logist, or in accordance with a protocol or guideline that has been		
	and and and	Height velocity is greater than or equal to 25th percentile for age (adjust hormone treatment, as calculated over six months using the standards of the hormone treatment, as calculated over six months using the standards of the hormone treatment, as calculated to 2.0 cm per year, as calculated and the hormone of the hormone treatment, as calculated the hormone treatment that the hormone treatment the hormone treatment that the hormone treatment that the hormone treatment the hormone treatment that the hormone treatment that the hormone treatment the hormone treatment that the hormone treatment the hormone treatment that the hormone treatment that the hormone treatment the hormone treatment the hormone treatment the hormone treatment that the hormone treatment the hormone treatment the hormone treatment the hormone treatment the hormone treatm	ed for bone age/pubertal status if appropriate) while on growth of Tanner and Davis (1985)  over 6 months		
Re-a	INITIATION – Turner syndrome 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	O Height velocity is < 25th percentile over 6-12 months using the standard	ls of Tanner and Davies (1985)		

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PRES	CRIBER	PATIENT:
Name		
Ward:		NHI:
Soma	atropin	- continued
CON <sup>-</sup> Re-as	FINUATION SERVICE PROPERTY OF THE PROPERTY OF	ON – Turner 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 exceed by the Health NZ Hospital.  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
	and O	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-as	ssessmer equisites Pres	short stature without growth hormone deficiency It 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 used by the Health NZ Hospital.
	and on an analysis of an analysis o	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
Re-as	ssessmer equisites Pres	ON – short stature without growth hormone deficiency not 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 used by the Health NZ Hospital.
	and on an analysis of an analysis 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)  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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PRES	CRIBER		PATIENT:
Name	:		Name:
Ward:			NHI:
Som	atropin	- continued	
INITI Re-a	ATION – ssessme	short stature due to chronic renal insufficiency nt required after 12 months (tick boxes where appropriate)	
and	O Pres	. , ,	docrinologist or renal physician on the recommendation of a endocrinologist deline 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/pubstandards of Tanner and Davies (1985)	ertal status if appropriate) as calculated over 6 to 12 months using the
	and	A current bone age is to 14 years or under (female patients) o	r to 16 years or under (male patients)
	and	•	olic bone disease and absence of any other severe chronic disease
	and	The patient is under the supervision of a specialist with expert	
	or	creatinine (umol/l × 40 = corrected GFR (ml/min/1.73 m²	1.73 m² as measured by the Schwartz method (Height(cm)/plasma ) in a child who may or may not be receiving dialysis
			eived < 5mg/ m² /day of prednisone or equivalent for at least 6 months
		ON – short stature due to chronic renal insufficiency nt required after 12 months	
Prere	equisites	(tick boxes where appropriate)	
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	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
	0	Height velocity is greater than or equal to 2 cm per year as ca	culated over six months
	and	A current bone age is 14 years or under (female patients) or 1	6 years or under (male patients)
	and	No serious adverse effect that the patients specialist consider	s is likely to be attributable to growth hormone has occurred
	and	No malignancy has developed after growth hormone therapy v	vas commenced
	and	The patient has not experienced significant biochemical or me	tabolic deterioration confirmed by diagnostic results
	and	The patient has not received renal transplantation since starting	ng growth hormone treatment
		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

# HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

July 2025

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PRESCRIBER	PATIENT:
Name:	Name:
Ward:	NHI:
Somatropin - continued	
INITIATION – Prader-Willi syndrome Re-assessment required after 12 months Prerequisites (tick boxes where appropriate)  O Prescribed by, or recommended by an endocrinologist or paediatric endorsed by the Health NZ Hospital.  and  The patient has a diagnosis of Prader-Willi syndrome that ha and  The patient is aged six months or older and  A current bone age is < 14 years (female patients) or < 16 y and  Sleep studies or overnight oximetry have been performed an obstructive sleep disorder is found, it has been adequately treating surgeon  The patient is aged two years or older and  The patient is aged two years or older	d there is no obstructive sleep disorder requiring treatment, or if an eated under the care of a paediatric respiratory physician and/or ENT
or	and a thorough upper airway assessment is planned to be undertaken
CONTINUATION – Prader-Willi syndrome Re-assessment required after 12 months Prerequisites (tick boxes where appropriate)  Prescribed by, or recommended by an endocrinologist or paediatric endorsed by the Health NZ Hospital.	c endocrinologist, or in accordance with a protocol or guideline that has been
Height velocity is greater than or equal to 50th percentile (ad 12 months using the standards of Tanner and Davies (1985)  and Height velocity is greater than or equal to 2 cm per year as c and A current bone age is 14 years or under (female patients) or and	16 years or under (male patients)
No malignancy has developed after growth hormone therapy and	ers is likely to be attributable to growth hormone treatment has occurred was commenced d obesity as defined by BMI that has increased by greater than or equal

I confirm that the above details are correct:

Signed: Date:

## HOSPITAL MEDICINES LIST RESTRICTIONS CHECKLIST

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RESCRIBE	:R	PATIENT:
ame:		Name:
/ard:		NHI:
omatropi	in - continued	
	- adults and adolescents	
	nent required after 12 months  es (tick boxes where appropriate)	
	escribed by, or recommended by an endocrinologist or pa	aediatric endocrinologist, or in accordance with a protocol or guideline that has been
and	)	
	The patient has a medical condition that is known to c treatment of a pituitary tumour)	cause growth hormone deficiency (e.g. surgical removal of the pituitary for
and	The patient has undergone appropriate treatment of o	other hormonal deficiencies and psychological illnesses
and	•	
and	The patient has severe growth hormone deficiency (se	ee notes)
and	The patient's serum IGF-I is more than 1 standard dev	viation below the mean for age and sex
and  The patient has poor quality of life, as defined by a score of 16 or more using the disease-specific quality of life questionnaire for adul		
equal to 3 m Patients with solated grow in additiona The dose of or age and s	growth hormone deficiency (QoL-AGHDA®)  ne purposes of adults and adolescents, severe growth hor ncg per litre during an adequately performed insulin toleral n one or more additional anterior pituitary hormone deficie with hormone deficiency require two growth hormone stimul al test is required, an arginine provocation test can be used somatropin should be started at 0.2 mg daily and be titra sex; and	mone deficiency is defined as a peak serum growth hormone level of less than or nce test (ITT) or glucagon stimulation test. encies and a known structural pituitary lesion only require one test. Patients with ulation tests, of which, one should be ITT unless otherwise contraindicated. Where d with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre ted by 0.1 mg monthly until it is within 1 standard deviation of the mean normal value.
equal to 3 m Patients with solated grow an additiona The dose of or age and so The dose of	growth hormone deficiency (QoL-AGHDA®)  ne purposes of adults and adolescents, severe growth hor ncg per litre during an adequately performed insulin toleral n one or more additional anterior pituitary hormone deficie with hormone deficiency require two growth hormone stimu al test is required, an arginine provocation test can be used somatropin should be started at 0.2 mg daily and be titral sex; and somatropin not to exceed 0.7 mg per day for male patien nencement of treatment for hypopituitarism, patients must	mone deficiency is defined as a peak serum growth hormone level of less than or nce test (ITT) or glucagon stimulation test. encies and a known structural pituitary lesion only require one test. Patients with ulation tests, of which, one should be ITT unless otherwise contraindicated. Where d with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre ted by 0.1 mg monthly until it is within 1 standard deviation of the mean normal value.
equal to 3 m Patients with solated grow in additiona The dose of or age and so The dose of At the comm	growth hormone deficiency (QoL-AGHDA®)  ne purposes of adults and adolescents, severe growth hor ncg per litre during an adequately performed insulin toleral n one or more additional anterior pituitary hormone deficie with hormone deficiency require two growth hormone stimu al test is required, an arginine provocation test can be used somatropin should be started at 0.2 mg daily and be titral sex; and somatropin not to exceed 0.7 mg per day for male patien nencement of treatment for hypopituitarism, patients must	mone deficiency is defined as a peak serum growth hormone level of less than or nce test (ITT) or glucagon stimulation test. encies and a known structural pituitary lesion only require one test. Patients with ulation tests, of which, one should be ITT unless otherwise contraindicated. Where d with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre ted by 0.1 mg monthly until it is within 1 standard deviation of the mean normal valuts, or 1 mg per day for female patients.
equal to 3 m Patients with solated grow in additiona The dose of or age and so The dose of At the comm	growth hormone deficiency (QoL-AGHDA®)  ne purposes of adults and adolescents, severe growth hor ncg per litre during an adequately performed insulin toleral n one or more additional anterior pituitary hormone deficie with hormone deficiency require two growth hormone stimu al test is required, an arginine provocation test can be used somatropin should be started at 0.2 mg daily and be titral sex; and somatropin not to exceed 0.7 mg per day for male patien nencement of treatment for hypopituitarism, patients must	mone deficiency is defined as a peak serum growth hormone level of less than or nce test (ITT) or glucagon stimulation test.  encies and a known structural pituitary lesion only require one test. Patients with ulation tests, of which, one should be ITT unless otherwise contraindicated. Where d with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre ted by 0.1 mg monthly until it is within 1 standard deviation of the mean normal valuts, or 1 mg per day for female patients.

I confirm that the above details are correct:

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Signed.	Date:	
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I confirm that the above details are correct:

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PRE	SCRIB	ER	PATIENT:
Nam	e:		Name:
Ward	l:		NHI:
Son	natro	<b>pin</b> - con	ntinued
Re-	assess r <b>equis</b>	ment requires (tick beforescribed	adults and adolescents uired after 12 months boxes where appropriate)  I by, or recommended by an endocrinologist or paediatric endocrinologist, or in accordance with a protocol or guideline that has been by the Health NZ Hospital.
and			
		and and and	The patient has been treated with somatropin for < 12 months  There has been an improvement in the Quality of Life Assessment defined as a reduction of at least 8 points on the Quality of Life Assessment of Growth Hormone Deficiency in Adults (QoL-AGHDA®) score from baseline  Serum IGF-I levels have increased to within ±1SD of the mean of the normal range for age and sex
			The dose of somatropin does not exceed 0.7 mg per day for male patients, or 1 mg per day for female patients
	or	and and and	The patient has been treated with somatropin for more than 12 months  The patient has not had a deterioration in Quality of Life defined as a 6 point or greater increase from their lowest QoL-AGHDA® score on treatment (other than due to obvious external factors such as external stressors)  Serum IGF-I levels have continued to be maintained within ±1SD of the mean of the normal range for age and sex (other than for obvious external factors)  The dose of somatropin has not exceeded 0.7 mg per day for male patients or 1 mg per day for female patients
	or		
		and O and O and O and O	The patient has had a Special Authority approval for somatropin for childhood deficiency in children and no longer meets the renewal criteria under this indication  The patient has undergone appropriate treatment of other hormonal deficiencies and psychological illnesses  The patient has severe growth hormone deficiency (see notes)  The patient's serum IGF-I is more than 1 standard deviation below the mean for age and sex  The patient has poor quality of life, as defined by a score of 16 or more using the disease-specific quality of life questionnaire for adult growth hormone deficiency (QoL-AGHDA®)
equalisola isola an a The mea The At th	al to 3 ents winder addition dose of norm dose of ne com	mcg per li ith one or owth horm nal test is r of somatro nal value f of somatro	ses of adults and adolescents, severe growth hormone deficiency is defined as a peak serum growth hormone level of less than or itre during an adequately performed insulin tolerance test (ITT) or glucagon stimulation test.  more additional anterior pituitary hormone deficiencies and a known structural pituitary lesion only require one test. Patients with none deficiency require two growth hormone stimulation tests, of which, one should be ITT unless otherwise contraindicated. Where required, an arginine provocation test can be used with a peak serum growth hormone level of less than or equal to 0.4 mcg per litre. Opin should be started at 0.2 mg daily and be titrated by 0.1 mg monthly until the serum IGF-I is within 1 standard deviation of the for age and sex; and opin not to exceed 0.7 mg per day for male patients, or 1 mg per day for female patients.  ent of treatment for hypopituitarism, patients must be monitored for any required adjustment in replacement doses of corticosteroid