Specialist Working Group for Neurology

Proposed changes to the Criteria for the clinical use of intravenous immunoglobulin in Australia, Second Edition

ITEM	CRITERIA FOR THE CLINICAL USE OF INTRAVENOUS IMMUNOGLOBULIN IN AUSTRALIA, SECOND EDITION (CRITERIA)	PROPOSED REVISIONS TO THE CRITERIA	SWG RATIONALE FOR PROPOSED CHANGE (A) Administrative) (B) Progressive (C) Programmed
Condition Name	Stiff person syndrome (Moersch–Woltmann syndrome)	Stiff person syndrome	Term - Moersch–Woltmann Syndrome no longer used
Specialty	Neurology	Neurology	
Chapter	5	5	
Specific Conditions			
Level of Evidence	Evidence of probable benefit (Category 2a).	Evidence of probable benefit (Category 2a).	Unchanged.
Justification for Evidence Category	The Biotext (2004) review included one randomised, double blind, placebo-controlled trial with a crossover design of 16 patients with stiff person syndrome and anti-GAD-65 antibodies. A significant treatment effect with IVIg was seen, resulting in patients' decreased stiffness and heightened sensitivity scores. According to expert consensus, considering the disabling progressive course of stiff person syndrome, IVIg should be offered as the first-line treatment. Although periodic infusions would be required in the majority, further studies are needed to determine optimal dosage and duration (Asia–Pacific Advisory	The Biotext (2004) review included one randomised, double blind, placebo-controlled trial with a crossover design of 16 patients with stiff person syndrome and anti-GAD-65 antibodies. A significant treatment effect with IVIg was seen, resulting in patients' decreased stiffness and heightened sensitivity scores. According to expert consensus, considering the disabling progressive course of stiff person syndrome, IVIg should be offered as the first-line treatment. Although periodic infusions would be required in the majority, further studies are needed to determine optimal dosage and	Unchanged.

	Board 2004).	durati	on (Asia–Pac	ific Advisory Board 2004).	
Description and Diagnostic Criteria	Patients with stiff person syndrome present with symptoms related to muscular rigidity and superimposed episodic spasms. The rigidity insidiously spreads involving axial muscles, primarily abdominal and thoracolumbar, as well as proximal limb muscles. Typically, cocontraction of truncal agonist and antagonistic muscles leads to a board-like appearance with hyperlordosis. Less frequently, respiratory muscle involvement leads to breathing difficulty and facial muscle involvement to a mask-like face. Investigations that may be useful for diagnosis include auto-antibodies to GAD-65 or GAD-67, electromyography recordings from stiff muscles that may show continuous discharges of motor unit, and cerebrospinal fluid oligoclonal bands.	Patients with stiff person syndrome present with symptoms related to muscular rigidity and superimposed episodic spasms. The rigidity insidiously spreads involving axial muscles, primarily abdominal and thoracolumbar, as well as proximal limb muscles. Typically, cocontraction of truncal agonist and antagonistic muscles leads to a board-like appearance with hyperlordosis. Less frequently, respiratory muscle involvement leads to breathing difficulty and facial muscle involvement to a mask-like face. Investigations that may be useful for diagnosis include auto-antibodies to GAD-65 or GAD-67, electromyography recordings from stiff muscles that may show continuous discharges of motor unit, and cerebrospinal fluid oligoclonal bands.			
Diagnosis is required		No	By which speciality		Unchanged.
Diagnosis must be verified		No	By which speciality		
Exclusion Criteria					
Indications	Treatment of significant functional impairment in patients who have a verified diagnosis of stiff person syndrome.	Stiff Person Syndrome or variants with significant disability		me or variants with significant	Change Revise 'impairment' to 'disability' and to include variants. Rationale
					Reworded for consistency with other indications - modifying language to 'disability' and appropriately indicating that

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			variants are eligible for treatment
Qualifying Criteria	Significant functional impairment in patients who have a verified diagnosis of stiff person syndrome made by a neurologist.	Stiff Person Syndrome or variants with significant disability Neurologist confirmed diagnosis of Stiff Person Syndrome or its variants with significant disability as measured by the Modified Rankin Functional ADL Score of at least 4 points and the Distribution of stiffness index of at least 1 point.	The Ig governance program requires formal eligibility criteria with supporting evidence to be defined for each condition. Eligibility is to be confirmed by Modified Rankin and Distribution of Stiffness Index because these methods have been demonstrated as effective through Randomised Controlled Trials. References: Rankin J. "Cerebral vascular accidents in patients over the age of 60." Scott Med J 1957;2:200-15 Bonita R, Beaglehole R. "Modification of Rankin Scale: Recovery of motor function after stroke." Stroke 1988 Dec;19(12):1497-1500 Van Swieten JC, Koudstaal PJ, Visser MC, Schouten HJ, van Gijn J. "Interobserver agreement for the assessment of handicap in stroke patients. Original version of Modified Rankin has been shortened to display more easily in the list of values.
Review Criteria	Review Regular review by a neurologist is required; frequency as determined by clinical status of patient. For stable patients on maintenance treatment, review by a neurologist is required at least annually.	Stiff Person Syndrome or variants with significant disability Review Preamble Regular review by a neurologist is required within 6 of the initial review and at least annually thereafter.	
	Effectiveness Objective indicators of relief of symptoms of stiffness, including: •improvement or stabilisation of activities of	On review of the Initial Authorisation Period Patient demonstrates relief of symptoms of	

	daily living scores; •other specialised scoring systems, such as distribution-of-stiffness index and heightened sensitivity scale.	stiffness and disability as demonstrated by a Functional Assessment ADL - Modified Rankin Score and a Distribution of Stiffness Index which are greater than the qualifying scores.	
		On review of a Continuing Authorisation Period	
		Patient demonstrates stable symptoms of stiffness demonstrated by a Functional ADL Score – Modified Rankin which is greater than or equal to the scores at the last review and greater than the qualifying scores.	
		Review Postscript For stable patients on maintenance treatment, review by a neurologist is required at least annually.	
Dose	Induction: 2 g/kg in 2 to 5 divided doses.	Stiff person Syndrome with significant functional impairment	There will be a lower limit defined as 1g for induction dose.
	Maintenance: 1–2 g/kg, 4–6 weekly. Aim for the minimum dose to maintain optimal functional status. Dosing above 1 g/kg per day is contraindicated for some IVIg products.	Induction: Up to 2 g/kg in 2 to 5 divided doses Maintenance: Up to 0.4–1 g/kg, 2–6 weekly. The amount per dose should be titrated to the	Maintenance - While maximum dosing is unchanged, prescribers are encouraged to titrate the dose to the individual's response and
	Refer to the current product information sheet for further information.	individual's response. A maximum dose of 2 g/Kg may be given in any 4 week period. This might be by divided doses more frequently than monthly.	supported in giving divided doses more frequently than monthly.
	The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient	[Dose Postscript] The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient.	Prompt to remind patients regarding thrombotic risk of Ig.
		Dosing above 1 g/kg per day is contraindicated for some IVIg products and in some patients (

	see product information).	
	Refer to the current product information sheet for further information.	

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POTENTIAL OPERATIONAL IMPACT

Given that Stiff Person Syndrome is very rare, diagnosis is already likely to be made by neurologists. Where patients are in the care of a general physician, transfer will be required to a neurologist.

It is important that patients will have given informed consent to Ig treatment, which includes understanding that a measurable clinical response will determine continuing eligibility. Patients not demonstrating a satisfactory response will cease therapy at 6 months.

Clinicians may opt for more frequent dosing to improve clinical outcome in patients - this may have an impact on scheduling of appointments.

POTENTIAL IMPACT ON DEMAND

POTENTIAL IMPACT ON DEMAND				
Patient Numbers	41	Given the few patients with this condition it is unlikely that there will be any significant impact on		
2013-14	<1%	demand.		
Usage 13/14				
POTENTIAL IMPACT ON COST				
Current cost		Anticipated reduction in cost, if any	Marginal	
		Marginal = borderline or unchanged from current cost		
		Minor = decrease by \$500K - \$1.99M from current cost		
		Major = decrease \$2M+ from current cost		

BIBLIOGRAPHY

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