Specialist Working Group for Haematology

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	Idiopathic (autoimmune) thrombocytopenic purpura (ITP) — in children 15 years and younger	Idiopathic (autoimmune) thrombocytopenic purpura (ITP) — in children 15 years and younger	
Specialty	Haematology	Haematology	
Chapter	6	6	
Specific Conditions		Idiopathic (autoimmune) thrombocytopenic purpura — in children 15 years and younger Evans syndrome	SWG recommends tracking of Evan's Syndrome within AIHA, ITP —child and ITP-Adult, rather than a stand alone condition.
Level of Evidence	Clear evidence of benefit (<u>Category 1</u>).	Clear evidence of benefit (<u>Category 1</u>).	Unchanged
Justification for Evidence Category	Category 1 classification in the Biotext (2004) review was based on four low–moderate quality RCTs. The Frommer and Madronio (2006) review identified a good-quality systematic review/meta-analysis of RCTs to support the Category 1 classification.	Category 1 classification in the Biotext (2004) review was based on four low-moderate quality randomised controlled trials (RCTs). The Frommer and Madronio (2006) review identified a good-quality systematic review/meta-analysis of RCTs to support the Category 1 classification.	Unchanged

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Description and			(C) Programmed
Diagnostic	ITP is a reduction in platelet count	ITP is a reduction in platelet count	
Criteria	(thrombocytopenia) resulting from shortened	(thrombocytopenia) resulting from shortened	
	platelet survival due to anti-platelet antibodies.	platelet survival due to anti-platelet antibodies.	
	When counts are very low (<30x10 ⁹ /L) bleeding	When counts are very low (<30 x 10 ⁹ /L),	
	into the skin (purpura) and mucous membranes	bleeding into the skin (purpura) and mucous	
	can occur. Bone marrow morphology is normal. In	membranes can occur. Bone marrow	
	some cases, there is additional impairment of	morphology is normal. In some cases, there is	
	platelet function related to antibody binding to	additional impairment of platelet function	
	glycoproteins on the platelet surface. ITP is	related to antibody binding to glycoproteins on	
	divided into chronic and acute forms. In children,	the platelet surface. ITP is divided into chronic	
	the acute form is the most common. The disease	and acute forms. In children, the acute form is	
	tends to present abruptly with dramatic evidence	the most common. The disease tends to present	
	of bleeding into the skin (petechiae and purpura)	abruptly with dramatic evidence of bleeding	
	and mucous membranes (gum bleeding, nose	into the skin (petechiae and purpura) and	
	bleeds, blood blisters).	mucous membranes (gum bleeding, nose	
	Occurrence	bleeds, blood blisters).	
	Girls and boys are affected equally. In 75% of	Occurrence	
	patients, the episode follows vaccination or a	Girls and boys are affected equally. In 75% of	
	viral infection such as varicella or infectious	patients, the episode follows vaccination or a	
	mononucleosis.	viral infection such as varicella or infectious	
	Prognosis	mononucleosis.	
	At least 80–90% of children will have	Prognosis	
	spontaneous remission of their disease within 6–	At least 80–90% of children will have	

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	12 months. In 5–10% of cases, the disease may	spontaneous remission of their disease within	
	become chronic (lasting >6 months). Morbidity	6–12 months. In 5–10% of cases, the disease	
	and mortality from acute ITP is very low.	may become chronic (lasting >6 months).	
		Morbidity and mortality from acute ITP is very	
		low.	
Diagnosis is required		No Which Speciality	
Diagnosis must be verified		No Which Specialty	
Exclusion	1. Platelet count >30x10 ⁹ /L.	Platelet count >30 x 10 ⁹ /L.	
Criteria	Absence of significant bleeding.	Absence of significant bleeding.	
Indication for use	ITP with platelet count <30 x10 ⁹ /L with significant bleeding	Acute ITP with life-threatening bleeding. Acute ITP with platelet count <30 x 10 ⁹ /L with significant bleeding. Chronic ITP with life-threatening bleeding. Chronic ITP in responsive patients with platelet count <30 x 10 ⁹ /L with moderate to severe bleeding symptoms where other therapeutic options have failed or are contraindicated. Chronic ITP in responsive patients prior to surgery to elevate platelet count to haemostatically safe levels.	Original indication has been split into 5 indications to support the differing qualifying criteria and evidence items required for each.

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Qualifying	Note: While the effectiveness of IVIg is not	Acute ITP with life-threatening bleeding.	Script has been deleted as it is incorrect. The
Criteria	disputed, clinical experts advise that most	Patients qualify for initial intravenous	indications have been tightly controlled however, where indicated, Ig is an important treatment option in children. Ongoing therapy however is
	children with ITP do not require IVIg therapy;	immunoglobulin (IVIg) therapy with life- threatening bleeding	
	indeed, no treatment at all is required for many	timeatering steeding	not indicated. (A)
	children. Corticosteroids are the alternative	AND	
	therapy to IVIg.	• Thrombocytopoenia <50 x 10 ⁹ /L.	
	Acute ITP	Acute ITP with platelet count <30 x 10 ⁹ /L with significant bleeding.	
	Life-threatening bleeding due to	Patients qualify for initial IVIg therapy when	SWG noted that above 50, life threatening
	thrombocytopenia;	current platelet count is $<30 \times 10^9/L$.	bleeding is unlikely to be due to the low platelets
	OR	AND	and vessel injury must be sought. (A)
		AND	
	2. Thrombocytopenia with platelet count	 Moderate to severe mucosal and/or cutaneous bleeding. 	
	<30x10 ⁹ /L and moderate to severe		
	mucosal and/or cutaneous bleeding.	A repeat dose at 24–48 hours may be given if response is inadequate and recurrent	
	Chronic ITP	symptomatic thrombocytopenia occurs. The duration of response to the initial dose is	
	Life-threatening bleeding due to	typically two to four weeks.	
	thrombocytopenia;	Chronic ITP with life-threatening bleeding.	
	OR	Patients qualify for initial IVIg therapy when ITP has been diagnosed for longer than	
	2. In responsive patients for treatment of	12 months	
	thrombocytopenia (<30x10 ⁹ /L) with	AND	
	moderate to severe bleeding symptoms		
	where other therapeutic options have	Patient has life-threatening bleeding due to	

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	failed or are contraindicated;	thrombocytopenia <50 x 10 ⁹ /L.	
	OR 3. In responsive patients given before surgery to elevate the platelet count to haemostatically safe levels.	Chronic ITP in responsive patients with platelet count <30 x 10 ⁹ /L with moderate to severe bleeding symptoms where other therapeutic options have failed or are contraindicated. • Thrombocytopenia <30 x 10 ⁹ /L in a patient with chronic ITP with previously	
		demonstrated response to therapy AND	
		Moderate to severe bleeding symptoms	
		AND	
		Other therapeutic options have failed or other treatment options are contraindicated.	
		Chronic ITP in responsive patients prior to surgery to elevate platelet count to haemostatically safe levels.	
		IVIg responsive patient with chronic ITP and previous documented response to Ig therapy.	
		AND	
		 Pending surgery requiring haemostatically safe platelet count for relevant procedure: 	

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		 minor dental work (>30 x 10⁹/L) major dental (>80 x 10⁹/L) minor surgery (>50 x 10⁹/L) major surgery (>80 x 10⁹/L) major neurosurgery (>100 x 10⁹/L). 	
Review Criteria	 Platelet count at 48 hours. Control or resolution of bleeding. Duration of effect. Progression to chronic ITP. 	Acute ITP with life-threatening bleeding. Review Is not mandated for this indication however the following may be useful in assessing the effectiveness of Ig therapy. Outcome data to be measured The achievement of maximum platelet count within 72 hours of Ig treatment of greater than 30 x 10 ⁹ /L and at least double the pre-treatment count. Prevention or reduction in bleeding, if relevant.	SWG advised that ongoing treatment is inappropriate in children and maintenance dosing is not required. Each dose should be requested as required (when the patient is bleeding) and eligibility criteria than are to be fulfilled on each occasion. SWG observed that the treatment of life threatening bleeding is IVIg, steroids and platelets given as quickly as possible so difficult to know what is the most important element in each case.
		Acute ITP with platelet count <30 x 10 ⁹ /L with significant bleeding. Review Is not mandated for this indication however the following may be useful in assessing the effectiveness of Ig therapy. One repeat dose at 24–48 hours may be given if response is inadequate and recurrent symptomatic thrombocytopenia occurs	

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		The duration of response to the initial dose is typically two to four weeks.	
		Outcome data to be measured	
		 Achievement of maximum platelet count within 72 hours of Ig treatment of greater than 30 x 10⁹/L and at least double the pretreatment count. Prevention or reduction in bleeding, if relevant. 	
		Chronic ITP with life-threatening bleeding.	
		Review Is not mandated for this indication however the following may be useful in assessing the effectiveness of Ig therapy.	
		Outcome data to be measured	
		 Achievement of maximum platelet count within 72 hours of Ig treatment of greater than 30 x 10⁹/L and at least double the pre- treatment count. 	
		Prevention or reduction in bleeding.	
		Chronic ITP in responsive patients with platelet count <30 x 10 ⁹ /L with moderate to severe bleeding symptoms where other therapeutic options have failed or are contraindicated.	

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		Review Is not mandated for this indication	
		however the following may be useful in	
		assessing the effectiveness of Ig therapy.	
		Outcome data to be measured	
		 Achievement of maximum platelet count within 72 hours of lg treatment greater than 30 x 10⁹/L and at least double the pre- treatment count. 	
		Prevention or reduction in bleeding.	
		Chronic ITP in responsive patients prior to	
		surgery to elevate platelet count to	
		haemostatically safe levels.	
		Review Is not mandated for this indication however the following may be useful in assessing the effectiveness of Ig therapy.	
		Outcome data to be measured	
		 Achievement of maximum platelet count within 72 hours of Ig treatment of greater than 30 x 10⁹/L and at least double the pre- treatment count. 	
		Prevention or reduction in bleeding.	

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Dose	Acute ITP	Acute ITP with life-threatening bleeding.	(c) Frogrammed
	Life-threatening bleeding: up to 2 g/kg total dose, generally given as 2 doses of 1 g/kg. Other indications: 0.5 g/kg given as a single dose, repeated at 24–48 hours if the response is inadequate. A higher total dose of 2 g/kg may be required in 5–10% of cases. Duration of response to initial dose is typically two to four weeks. A repeat dose may be considered if recurrent symptomatic thrombocytopenia occurs. Chronic ITP	Induction Dose: 0.8 given as a single dose. One repeat dose at 24–48 hours may be given if response is inadequate and recurrent symptomatic thrombocytopenia occurs. The duration of response to the initial dose is typically two to four weeks. The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient. Dosing above 1 g/kg per day is contraindicated for some IVIg products. Refer to the current product information sheet for further information.	
	Life-threatening bleeding: up to 2 g/kg total dose, generally given as 2 doses of 1 g/kg. Other indications: 0.5 to 1 g/kg at intervals generally > three weekly. Dosing above 1 g/kg per day is contraindicated for some IVIg products. Refer to the current product information sheet for further information.	Acute ITP with platelet count <30 x 10 ⁹ /L with significant bleeding. Initial therapy: 0.8 g/kg given as a single dose. One repeat dose at 24–48 hours if the response is inadequate and symptomatic thrombocytopenia occurs. The duration of response to the initial dose is typically two to four weeks. The aim should be to use the lowest dose	Dosing scripts have been revised.

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	The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient.	possible that achieves the appropriate clinical outcome for each patient. Dosing above 1 g/kg per day is contraindicated for some IVIg products. Refer to the current product information sheet for further information.	
		Chronic ITP with life-threatening bleeding. Initial therapy: 0.8 g/kg given as a single dose. One repeat dose at 24–48 hours if the response is inadequate and symptomatic thrombocytopenia occurs. The duration of response to the initial dose is typically two to four weeks. The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient. Dosing above 1 g/kg per day is contraindicated for some IVIg products. Refer to the current product information sheet for further information.	Maintenance treatment has not been supported for chronic ITP or any other indications.
		Chronic ITP in responsive patients with platelet count <30 x 10 ⁹ /L with moderate to severe bleeding symptoms where other	

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		therapeutic options have failed or are contraindicated.	
		Initial therapy: 0.8 g/kg given as a single dose.	
		The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient.	
		Dosing above 1 g/kg per day is contraindicated for some IVIg products.	
		Refer to the current product information sheet for further information.	
		Chronic ITP in responsive patients prior to surgery to elevate platelet count to haemostatically safe levels.	
		Initial therapy: 0.8 g/kg given as a single dose.	
		The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient.	
		Dosing above 1 g/kg per day is contraindicated for some IVIg products.	
		Refer to the current product information sheet for further information.	

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