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) — adult	Idiopathic (autoimmune) thrombocytopenic purpura (ITP) — adult	
Specialty	Haematology	Haematology	
Chapter	5	5	
Specific Conditions		ITP –adult Evans Syndrome - autoimmune haemolytic anaemia (AIHA) with immune thrombocytopenia	Evans syndrome no longer exists as a separate condition and will be accessed under ITP- adult and ITP – children or AIHA.
Level of Evidence	Evidence of probable benefit (<u>Category 2a</u>).	Evidence of probable benefit (<u>Category 2a</u>).	
Justification for Evidence Category	Five small prospective studies, including three randomised studies, demonstrated equivalent efficacy of IVIg in comparison to prednisone 1 mg/kg/ day and high-dose dexamethasone regimen. Overall, the studies found a dose response with more rapid increment in platelet counts at scheduling ≥0.8 g/kg on day one compared with 0.4 g/kg/day for three days. A small controlled study (10 patients in each arm)	Five small prospective studies, including three randomised studies, demonstrated equivalent efficacy of intravenous immunoglobulin (IVIg) in comparison to prednisone 1 mg/kg/ day and high-dose dexamethasone regimen. Overall, the studies found a dose response with more rapid increment in platelet counts at scheduling ≥0.8 g/kg on day one compared with 0.4 g/kg/day for three days.	
	compared with 0.4 g/kg/day for three days.	g/kg on day one compared with 0.4 g/kg/day	

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
	thrombocytopenia reported possible benefit for	arm) of HIV-positive patients with severe	
	the restoration and maintenance of platelet	thrombocytopenia reported possible benefit for	
	count for the duration of the haemorrhagic	the restoration and maintenance of platelet	
	disorder (Biotext 2004).	count for the duration of the haemorrhagic	
	An international consensus statement from	disorder (Biotext 2004).	
	January 2010 (Provan et al 2010) reported on	An international consensus statement from	
	new data and provided consensus-based	January 2010 (Provan et al 2010) reported on	
	recommendations relating to diagnosis and	new data and provided consensus-based	
	treatment of ITP in adults, in children, and during	recommendations relating to diagnosis and	
	pregnancy. This statement concluded that few	treatment of ITP in adults, in children, and	
	RCTs have been conducted and that multi-centre,	during pregnancy. This statement concluded	
	prospective RCTs are required.	that few randomised controlled trials (RCTs)	
		have been conducted and that multi-centre,	
		prospective RCTs are required.	
		A 2005 review on the management of Evans	
		syndrome, based on Massachusetts Hospital	
		data and a literature review, showed a transient	
		response in all patients unless IVIg was given	
		every three weeks (Norton and Roberts 2006).	
		The review concluded that the data supported a	
		role for IVIg in first-line therapy. It was not clear	
		whether it was important for steroids to be	
		given at the same time, although this is	
		common practice. A total dose of 2 g/kg in	

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
		divided doses appeared to be sufficient. The	
		review also stated that there might be a role for	
		IVIg in preference to steroids in the acute	
		setting in very young children.	
		A recent meta-analysis of low to medium	
		quality evaluated outcomes of 13 small RCTs	
		comparing high dose (2g/kg) to lower dose	
		(1g/kg) IVIg in acute ITP. The analysis	
		demonstrated equivalent efficacy for all endpoints studied including platelet responses	
		and control of bleeding (Qin YH et al 2010) in	
		both high dose and low dose groups.	
Description and	ITP is a reduction in platelet count	ITP is a reduction in platelet count	
Diagnostic 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 platelet production	membranes can occur. Bone marrow platelet	
	(megakaryopoiesis) is morphologically normal. In	production (megakaryopoiesis) is	
	some cases, there is additional impairment of	morphologically 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. It is a	the platelet surface. ITP is divided into chronic	
	common finding in patients with HIV, and while it	and acute forms. It is a common finding in	
	may be found at any stage of the infection, its	patients with human immunodeficiency virus	

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
	prevalence increases as HIV disease advances.	(HIV), and while it may be found at any stage of	
	Around 80% of adults with ITP have the chronic form of disease. The highest incidence of chronic	the infection, its prevalence increases as HIV disease advances.	
	ITP is in women aged 15–50 years, although some	Around 80% of adults with ITP have the chronic	
	reports suggest increasing incidence with age.	form of disease. The highest incidence of	
	Chronic ITP may relapse and remit spontaneously and the course may be difficult to predict. If the platelet count can be maintained at a level that	chronic ITP is in women aged 15–50 years, although some reports suggest increasing incidence with age.	
	prevents spontaneous bleeding or bruising, the	Chronic ITP may relapse and remit	
	outlook is good.	spontaneously and the course may be difficult	
		to predict. If the platelet count can be	
		maintained at a level that prevents	
		spontaneous bleeding or bruising, the outlook is	
		good.	
		Evans syndrome is a rare but serious autoimmune disease defined by the	
		simultaneous or sequential occurrence of AIHA	
		and immune thrombocytopenia purpura (ITP)	
		without underlying aetiology. As such, it is a	
		diagnosis of exclusion and other disorders, such	
		as collagen vascular diseases, especially	
		systemic lupus erythematosus (SLE) and	
		scleroderma should be ruled out. The 2005	
		review by Norton and Roberts provided	

ITEM	CRITERIA FOR THE CLINICAL USE OF INTRAVENOUS IMMUNOGLOBULIN IN AUSTRALIA, SECOND EDITION (CRITERIA)	PROPOSED REV	ISIONS TO TH	IE CRITERIA	SWG RATIONALE FOR PROPOSED CHANGE (A) Administrative) (B) Progressive (C) Programmed
			diagnosis, clin	ical features and	
		management.			
Diagnosis is required	Refractory acute ITP on the recommendation of a clinical haematologist	Yes	Which Speciality	Haematologist or General Physician	Specialties of treating specialists are required to be identified within the Ig system. (A)
Diagnosis must be verified		No	Which Specialty		
Exclusion Criteria					
Indication for use	1. Refractory acute ITP <i>on the recommendation of a clinical haematologist</i>	Refractory acut	e ITP — initia	l therapy.	Refractory ITP and pregnancy have each been split into 2 indications to support initial treatment and then ongoing therapy in those
	Patients with severe thrombocytopenia (platelets <30x10 ⁹ /L) who have not responded to corticosteroid therapy.	Refractory acut contraindicated unsuccessful.	•	ectomy failed or line agent	patients requiring monthly Ig treatment. Eg refractory ITP when splenectomy has failed and ongoing treatment for ITP responders during pregnancy.
	2. ITP with life-threatening haemorrhage or the potential for life-threatening haemorrhage	ITP with life-th potential for lif	-	morrhage or the haemorrhage.	
	Patients with severe thrombocytopenia $(<30x10^9/L)$ with clinical evidence of a	Initial therapy f	or ITP in preg	nancy.	
	haemostatic defect (e.g. mucous membrane haemorrhage) or active bleeding.	Ongoing treatm pregnancy and		esponders during Im period.	

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
	3. ITP in pregnancy	ITP and inadequate platelet count for planned	
	a. Platelets <30x10 ⁹ /L	surgery.	
	b. Impending delivery	Severe ITP.	
	4. Specific circumstances	Chronic ITP.	
	a. Planned surgery		
	b. Other concurrent risk factors for bleeding (e.g.	HIV-associated ITP.	
	concurrent anti-coagulant therapy)		
	c. Severe ITP (platelets <30x10 ⁹ /L) where		
	corticosteroids and immunosuppression are		
	contraindicated		
	d. Chronic ITP under the guidance of a clinical		
	haematologist, as adjunctive therapy or where		
	other therapies have failed or are not appropriate		
	5. HIV-associated ITP		
	Patients with severe ITP associated with HIV		
	infection.		
Qualifying Criteria	1. Refractory acute ITP:	Refractory acute ITP — initial therapy.	The qualifying criteria are largely unchanged with required timeframes for steroid therapy being
	1. Patients qualify for initial IVIg therapy	Patients qualify for initial IVIg therapy	defined and Steroid contra-indication reasons

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
	 when conventional doses of corticosteroids (0.5-2.0 mg/ kg prednisolone, or equivalent) have failed to improve the platelet count or stop bleeding within a clinically appropriate time frame, as assessed by a clinical haematologist. The objective of therapy is to induce a prompt increase in the platelet count (to >30x10⁹/L) while other therapies are introduced. Patients qualify for continuing doses when splenectomy has failed or is contraindicated AND where therapy with at least one second-line agent has been unsuccessful in maintaining a platelet count >30x10⁹/L. With ongoing therapy, IVIg may be administered to achieve a platelet count >30x10⁹/L. Further doses may be administered in responsive patients for up to 6 months (thereafter see <u>Chronic</u> <u>refractory ITP</u>). The frequency and dose should be titrated to maintain a platelet count of at least 	 when current platelet count is <30 x 10⁹/L AND There has been no improvement in response to conventional doses of corticosteroid therapy for at least 14 days (unless valid reason is provided) or corticosteroid therapy is contraindicated. Refractory acute ITP — splenectomy failed or contraindicated and second-line agent unsuccessful. Patients qualify for continuing doses when the current platelet count is <30 x 10⁹/L AND At least a two-fold increase in platelet count (and platelet count >30 x 10⁹/L) was demonstrated within 72 hours of previous immunoglobulin (Ig) treatment and a reduction in evidence of bleeding (if relevant). AND Splenectomy has failed to correct thrombocytopenia or splenectomy is contraindicated. 	considered such as:• Unstable Diabetes• Psychosis or mood disorder• Significant infection including sepsis• Severe osteoporosis• Myopathy• History of avascular necrosisEvidence items supporting the eligibility criteria are formalised for each indication, eg failure to respond to steroid therapy is defined as being after 14 days treatment unless there is a valid reason. Data will be captured on all alternative therapies used and contraindication reason to steroids and immunosuppressive therapy are required to be provided. (A)SWG confirmed the measurement of maximum platelet count at 72 hours and that 'Response' was defined as level greater than 30 and at least a 2 fold increase in PLT count (in line with ITP IWG definition of response). (B) Splenectomy contraindication reasons include extramedullary haematopoiesis and surgical contraindications. (A)Second line agent therapy includes
	30x10 ⁹ /L. The objective of therapy is to maintain a safe platelet count while other therapeutic	 Therapy with a second-line agent has been unsuccessful in raising the platelet count above 30 x 10⁹/L. 	i. Azathioprine ii. Danazol iii. Dapsone iv. Rituximab

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
	options are explored. 2. ITP with life-threatening haemorrhage or the potential for life-threatening haemorrhage: IVIg therapy may be given when conventional doses of corticosteroids have failed or in	With ongoing therapy, IVIg may be administered to achieve a platelet count of >30 x 10 ⁹ /L. Further doses may be administered in responsive patients for up to 12 months (thereafter, see chronic refractory ITP).	v. Other (A)
	 conjunction with steroids when a rapid response is required. 3. ITP in pregnancy: Platelets <30x10⁹/L: IVIg therapy may be used to avoid corticosteroids, immunosuppressive agents and splenectomy. Further doses titrated to maintain a platelet count >30x10⁹/L may be administered every three to four weeks throughout the pregnancy. Impending delivery: IVIg therapy may be used to achieve a platelet count considered safe for delivery (80–100x10⁹/L). 	 ITP with life-threatening haemorrhage or the potential for life-threatening haemorrhage. IVIg therapy may be given to patients with life-threatening bleeding or potential for life threatening bleeding and the current platelet count is: 80–100 x 10⁹/L in patients with intracranial haemorrhage, <50 x 10⁹/L in patients with life threatening haemorrhage <30 x 10⁹/L in patients with a risk of haemorrhage. AND Ig therapy is given in conjunction with corticosteroids when a rapid response is required or when conventional doses of corticosteroids (for at least 14 days) have failed to improve count (unless a valid reason is provided) or when corticosteroid therapy is contraindicated. 	Qualifying platelet counts for different scenarios have been defined. (A)
		Initial therapy for ITP in pregnancy IVIg therapy is used to avoid corticosteroids, immunosuppressive agents and splenectomy	

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
		 during pregnancy. Once responder status has been demonstrated, doses titrated to maintain a platelet count > 30x 10⁹/L may be administered every three to four weeks throughout pregnancy. Pregnant women are eligible when the current platelet count represents potential risk: <30 x 10⁹/L with risk of haemorrhage <50 x 30 x 10⁹/L with life-threatening haemorrhage or <80–100 x 10⁹/L and impending delivery. 	
	 4. Specific circumstances: 1. Planned surgery: IVIg may be used to achieve a platelet count considered safe for surgery. The safe threshold will vary with the nature of the surgery 	 Ongoing treatment for ITP responders during pregnancy and the postpartum period. IVIg therapy is used to avoid corticosteroids, immunosuppressive agents and splenectomy during pregnancy. Further doses titrated to maintain a platelet count >30 x 10⁹/L may be administered every three to four weeks throughout pregnancy. Pregnant women are eligible when the current platelet count represents patential rick. 	
	(Recommended platelet counts for patients without concurrent risks of bleeding: minor dental work >30x10 ⁹ /L, minor surgery >50x10 ⁹ /L, major surgery	 potential risk: <30 x 10⁹/L with risk of haemorrhage <50 x 30 x 10⁹/L with life-threatening haemorrhage <80–100 x 10⁹/L and impending 	

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
	>80x10 ⁹ /L, major neurosurgery >100x10 ⁹ /L.)	delivery. AND	
	 Severe ITP: IVIg may be used where corticosteroids and immunosuppression are contraindicated. 	• The maximum platelet count achieved within 72 hours of the last Ig treatment was greater than 30 x 10 ⁹ /L and at least double the pre-treatment count.	
	3. Chronic refractory ITP unresponsive to all other available therapies: These patients may be considered for long-term maintenance therapy with IVIg, subject to regular review by a haematologist.	ITP and inadequate platelet count for planned surgery. IVIg may be used to achieve a platelet count considered safe for surgery. The safe threshold will vary with the nature of the surgery and whether there is a concurrent bleeding risk.	
	 5. HIV-associated ITP: Failure of antiretroviral therapy with platelet count <30x10⁹/L; OR Life-threatening haemorrhage secondary to thrombocytopenia. 	 Patients are eligible when surgery is planned and platelet count is below the accepted cut-off for the intended surgery: minor dental work (>30 x 10⁹/L) major dental work (>50 x 10⁹/L) minor surgery (>50 x 10⁹/L) major surgery (>80 x 10⁹/L) major neurosurgery (>100 x 10⁹/L). 	International working party on ITP have defined chronic ITP to commence after at least 12 months. The current version of criteria was based on 6 months. (A)
		 Severe ITP. Severe ITP with platelet count <30 x 10⁹/L and corticosteroids and immunosuppression are contraindicated. 	Appropriate second line agents are: i. TPO ii. Azathioprine iii. Danazol (A)

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	
		 Chronic ITP. Chronic refractory ITP (at least 12 months from the first diagnosis of ITP) with platelet count <30 x 10⁹/L. AND Immunosuppressant therapy is contraindicated or conventional doses of steroids or immunosuppressant therapy have failed to correct the platelet count and therapy with at least one second-line agent has been unsuccessful in raising platelet count above 30 x 10⁹/L. AND Splenectomy is contraindicated or splenectomy has failed to correct the low platelet count. 		
		 Failure of antiretroviral therapy and a platelet count of < 30 x 10⁹/L unless there is a risk of life-threatening haemorrhage secondary to thrombocytopenia (<80–100 x 10⁹/L intracranial or <50 x 10⁹/L other life-threatening haemorrhage). 		
Review Criteria	In chronic refractory ITP, six-month	Refractory acute ITP — initial therapy.	For one-off requests, patient outcome data can	

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
	review assessing evidence of clinical benefit; • Resolution of bleeding; • Increment in platelet count.	 Review Is not mandated for this indication however the following criteria may be useful in assessing the effectiveness of therapy. Outcome data to be measured maximum platelet count achieved within 72 hours after Ig treatment was greater than 30 x 10⁹/L and at least double the pre- treatment count prevention of or reduction in bleeding, if prior bleeding. Refractory acute ITP — splenectomy failed or contraindicated and second-line agent unsuccessful. Review must be undertaken six monthly by a Haematologist Review criteria for assessing the effectiveness of IVIg use include: maintenance platelet count of greater than 30 x 10⁹/L prevention of or reduction in bleeding, if prior bleeding. 	be entered but will not be mandatory. Review – Response to Ig therapy defined as Maximum platelet count of greater than 30x10 ⁹ /L and doubling of count within 72 hours of Ig therapy in line with ITP International Working Party (ITPIWP). Definition. Maintenance therapy is only supported for 3 indications – ongoing refractory ITP, pregnant Ig responders and chronic ITP (history of diagnosis now 12 rather than 6 months in line with ITPIWP).

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
		The objective of therapy is to maintain a safe platelet count while other treatment options are explored.	
		ITP with life-threatening haemorrhage or the potential for life-threatening haemorrhage.	
		Review Is not mandated for this indication	
		however the following criteria may be useful in	
		assessing the effectiveness of therapy.	
		 Outcome data to be measured maximum platelet count achieved within 72 hours of lg treatment of greater than 30 x 10⁹/L and at least double the pretreatment count prevention of or reduction in bleeding risk or bleeding, if prior bleeding. 	
		Initial therapy for ITP in pregnancy.	
		Review Is not mandated for this indication.	
		Ongoing treatment for ITP responders during	
		pregnancy and the postpartum period.	
		Review is not mandated for this indication	
		however the following criteria may be useful in	
		assessing the effectiveness of therapy.	
		Maximum length of authorisation is 12 months.	

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
		 Outcome data to be measured Review criteria for assessing the effectiveness of IVIg use include: 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 of or reduction in bleeding, if prior bleeding. 	
		ITP and inadequate platelet count for planned surgery.	
		Review Is not mandated for this indication however the following criteria may be useful in assessing the effectiveness of therapy.	
		 Outcome data can be measured maximum platelet count within 72 hours of lg treatment of greater than 30 x 10⁹/L and at least double the pre-treatment count prevention of or reduction in bleeding, if prior bleeding. 	
		Severe ITP.	
		Review is not mandated for this indication however the following criteria may be useful in assessing the effectiveness of therapy.	
		Outcome data to be measured Review criteria for assessing the effectiveness of IVIg use include:	

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
		 maximum platelet count within 72 hours of lg treatment of greater than 30 x 10⁹/L and at least double the pre-treatment count prevention of or reduction in bleeding, if prior bleeding. 	
		Chronic ITP. Review must be undertaken six monthly by Haematologist.	
		Patients qualify for continuing doses when splenectomy has failed or is contraindicated AND where therapy with at least one second- line agent has been unsuccessful in maintaining a platelet count of >30 x 10^9 /L.	SWG advised that a maintenance platelet count of > 30x10 ⁹ /L was required in Chronic ITP rather than the response defined for other conditions.
		With ongoing therapy, IVIg may be administered to achieve a platelet count of >30 x 10 ⁹ /L.	
		 On review of an initial authorisation period Current Platelet count <30 x 10 ⁹/L. AND Response was demonstrated by maximum platelet count (at least 30 x 10⁹/L and at least double the qualifying platelet count) achieved within 72 hours after lg treatment and prevention of or reduction in bleeding, if prior bleeding. AND 	

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
		 Patient remains unresponsive to all available therapies or other therapies are contraindicated. 	
		Patients with chronic ITP may be considered for long-term therapy with IVIg, subject to regular review by a Haematologist.	
		HIV-associated ITP.	
		Review Is not mandated for this indication however the following criteria may be useful in assessing the effectiveness of therapy.	
		 Outcome data to be measured maximum platelet count within 72 hours of lg treatment of greater than 30 x 10⁹/L and at least double the pre-treatment count prevention of reduction in bleeding, if prior bleeding. 	
Dose	Initial therapy: 1–2 g/kg as a single or divided	Refractory acute ITP — initial therapy.	SWG observed that approach to dosing is variable amongst clinicians. Use of 1g/Kg as a single dose is more common
	dose. Ongoing therapy: When indicated, 1–2 g/kg in	Induction Dose: 1–2 g/kg as a single dose or divided dose.	than 0.4 g/Kg for 5 days (total dose 2g/Kg). When the patient is regionally based - 5 days of treatment will be approved,

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
	single or divided dose at 4 to 6 weekly intervals titrated to symptoms and platelet count. Dosing above 1 g/kg per day is contraindicated for some IVIg products.	The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored.	whereas in metro centres where imprest stock is available, 3 days at 0.4g/kg is approved. If patients have the first 3 days and have not responded then the Blood Service will approve the last 2 days.
	Refer to the current product information sheet for further information. The aim should be to use the lowest dose	The aim should be to use the lowest dose possible that achieves the appropriate clinical outcome for each patient.	It was noted that there have been a couple of studies using 1g/kg however dosing with 1-2g/L is in line with published international guidelines and consensus statements for ITP.
	possible that achieves the appropriate clinical outcome for each patient.	Dosing above 1g/kg per day is contraindicated for some IVIg products. Refer to the current product information sheet for	SWG discussion noted that the lower limit should be set to 0.4g/L for all conditions. The SWG noted that if a prescriber tried to dose below the recommended minimum, an alert
		further information.	should advise that they are dosing below because prescribing should be at or above the minimum in this condition.
		Refractory acute ITP — splenectomy failed or contraindicated and second-line agent unsuccessful.	
		Maintenance Dose: When indicated, 0.4–2 g/kg in single or divided dose at 4- to 6-weekly intervals titrated to symptoms and platelet count. A maximum dose of 2 g per month might be divided in lower doses more frequently.	
		The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored.	
		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.	

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
		ITP with life-threatening haemorrhage or the potential for life-threatening haemorrhage.	
		Induction Dose: 1–2g /kg as a single dose or divided 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.	
		Initial therapy for ITP in pregnancy.	
		Induction Dose: $1-2$ g/kg as a single dose or divided dose. During pregnancy, further doses titrated to maintain a platelet count >30 x 10^9 /L may be administered every three to four weeks throughout pregnancy. For impending delivery, IVIg therapy may be used to achieve a platelet count considered safe for delivery (80– 100×10^9 /L).	
		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.	
		Ongoing treatment for ITP responders during	
		pregnancy and the postpartum period. Maintenance Dose: When indicated, 0.4–2 g/kg in single or divided dose at 4- to 6-weekly intervals titrated to symptoms and platelet count. A maximum dose of 2 g per month might be divided in lower doses more frequently.	

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
		The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored.	
		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.	
		ITP and inadequate platelet count for planned surgery.	
		Induction Dose: 1–2 g/kg as a single or divided dose.	
		IVIg may be used to achieve a platelet count considered safe for surgery.	
		The safe threshold will vary with the nature of the surgery.	
		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.	
		Severe ITP.	
		Induction Dose: 1–2 g/kg as a single dose or divided dose.	

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
		The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored.	
		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.	
		Maintenance Dose: When indicated, 1–2 g/kg in single or divided dose at 4- to 6-weekly intervals titrated to symptoms and platelet count. A maximum dose of 2 g per month might be divided in lower doses more frequently.	
		The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored.	
		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.	
		HIV-associated ITP.	
		Induction Dose: 1–2 g/kg as a single dose or divided dose.	

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
		 The objective of IVIg therapy in ITP is to maintain a safe platelet count while other therapeutic options are explored. 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. 	
		BIBLIOGRAPHY	1
Bierling, P & G	odeau, B 2005, 'Intravenous immunoglobulin for autoim	mune thrombocytopenic purpura', Human Immunology	, vol. 66, no. 4, pp. 387–94.
	,	ic literature review and report on the efficacy of intraver an Governments, pp. 42–48. Available from: <u>http://www</u>	
•	for Haematology General Haematology Task Force 2003 pregnancy', <i>British Journal of Haematology</i> , vol. 120, no	, 'Guidelines for the investigation and management of it p. 4, pp. 574–96.	diopathic thrombocytopenic purpura in adults,
	el-Wahab, O & Dzik, WH 2006, 'Current usage of intrave Insfusion, vol. 46, no. 5, pp. 741–53.	nous immunoglobulin and the rationale behind it: the N $$	assachusetts General Hospital data and review of the
	Frommer, M & Madronio, C 2006, The use of intravenous immunoglobulin in Australia. A report for the National Blood Authority, Part B: systematic literature review, Sydney Health Projects Group, University of Sydney, Sydney, pp. 13–14.		
George, JN, Woolf, SH, Raskob, GE, et al 1996, 'Idiopathic thrombocytopenic purpura: a practice guideline developed by explicit methods for The American Society of Haematology <i>Blood</i> , vol. 88, no. 1, pp. 3–40.			
	lier, MT, Decuypere, L, et al 1999, 'Intravenous immund .', British Journal of Haematology, vol. 107, no. 4, pp. 71	pglobulin for adults with autoimmune thrombocytopenio 6–9.	c purpura: results of a randomised trial comparing 0.5
	evret, S, Varet, B, et al 2002, 'Intravenous immunoglobul prombocytopenic purpura: a randomised, multicentre tr	lin or high-dose methylprednisolone, with or without or ial', <i>Lancet</i> , vol. 359, no. 9300, pp. 23–9.	al prednisone, for adults with untreated severe

autoimmune thrombocytopenic purpura: a randomised, multicentre trial', *Lancet*, vol. 359, no. 9300, pp. 23–9. Godeau, B, Lesage, S, Divine, M, et al 1993, 'Treatment of adult chronic autoimmune thrombocytopenic purpura with repeated high-dose intravenous immunoglobulin', *Blood*, vol. 82, no. 5, pp. 1415-21.

Jacobs, P, Wood, L & Novitzky N 1994, 'Intravenous gammaglobulin has no advantages over oral corticosteroids as primary therapy for adults with immune thrombocytopenia: a prospective randomised clinical trial', *American Journal of Medicine*, vol. 97, no. 1, pp. 55–9.

Kurlander, RJ & Rosse WF 1986, 'Efficacy of a 2-day schedule for administering intravenous immunoglobulin in treating adults with ITP', Blood, vol. 68, p. 112A.

Mathew, P, Chen, G & Wang, W 1997, 'Evans syndrome: results of a national survey', *Journal of Pediatric Hematology/Oncology*, vol. 19, no. 5, pp. 433–7.

orton, A & Roberts, I 2006, 'Management of Evans syndrome', British Journal of Haematology, vol. 132, no. 2, pp. 125–37.

Perrella, O 1990, 'Idiopathic thrombocytopenic purpura in HIV infection: therapeutic possibilities of intravenous immunoglobulins', *Journal of Chemotherapy*, vol. 2, no. 6, pp. 390–3.

Provan, D, Stasi, R, Newland, AC, et al 2010, 'International consensus report on the investigation and management of primary immune thrombocytopenia', *Blood*, vol. 115, no. 2, pp. 168–86.

Qin, YH et al 2010, 'The efficacy of different dose intravenous immunoglobulin in treating acute idiopathic thrombocytopenic purpura: a meta-analysis of 13 randomized controlled trials', *Blood Coagulation and Fibrinolysis* 2010, vol 21, pp713–721.

Unsal, C, Gurkan, E, Guvenc, B, et al 2004, 'Anti-D and intravenous immunoglobulin treatments in chronic idiopathic thrombocytopenic purpura', *Turkish Journal of Haematology*, vol. 21, no. 1, pp. 27–32.

Zell, SC & Peterson, K 1997, 'Long-term remission of HIV-associated thrombocytopenia parallels ongoing suppression of viral replication', *Western Journal of Medicine*, vol. 167, no. 6, pp. 433–35.

END OF DOCUMENT