

Clinical Policy: Thrombopoiesis Stimulating Agents-Doptelet, Nplate, Mulpleta, Promacta, Tavalisse

Reference Number: AZ.CP.PHAR.1019

Effective Date: 07.29.19 Last Review Date: 07.20

Line of Business: Arizona Medicaid Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

The following are thrombopoiesis stimulating agents requiring prior authorization: avatrombopag (Doptelet[®]), eltrombopag olamine (Promacta[®]), fostamatinib (TavalisseTM), lusutrombopag (Mulpleta[®]), and romiplostim (Nplate[®]).

<u>AHCCCS preferred drugs</u> in this class include Nplate (romiplostim) and Promacta (eltrombopag) tablets only.

<u>AHCCCS non-preferred drugs</u> in this class include Doptelet (avatrombopag), Mulpleta (lusutrombopag), and Tavalisse (fostamatinib).

FDA approved indication(s)

Nplate is indicated for the treatment of thrombocytopenia in:

- Adult patients with immune thrombocytopenia (ITP) who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy;
- Pediatric patients 1 year of age and older with ITP for at least 6 months who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy.

Promacta is indicated for the treatment of:

- Thrombocytopenia in adult and pediatric patients 1 year and older with chronic immune thrombocytopenia (ITP) who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy. Promacta should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increase the risk for bleeding.
- Thrombocytopenia in patients with chronic hepatitis C to allow the initiation and maintenance of interferon-based therapy. Promacta should be used only in patients with chronic hepatitis C whose degree of thrombocytopenia prevents the initiation of interferon-based therapy or limits the ability to maintain interferon-based therapy.
- Patients with severe aplastic anemia who have had an insufficient response to immunosuppressive therapy.
- In combination with standard immunosuppressive therapy for the first-line treatment of adults and pediatric patients 2 years and older with severe aplastic anemia.

Doptelet is indicated for the treatment of:

• Thrombocytopenia in adult patients with chronic liver disease who are scheduled to undergo a procedure.



• Thrombocytopenia in adult patients with chronic immune thrombocytopenia (ITP) who have had an insufficient response to a previous treatment.

Mulpleta is indicated for the treatment of thrombocytopenia in adult patients with chronic liver disease who are scheduled to undergo a procedure.

Tavalisse is indicated for the treatment of thrombocytopenia in adult patients with chronic immune thrombocytopenia (ITP) who have had an insufficient response to a previous treatment.

Limitation(s) of use:

- Nplate and Promacta are not indicated for the treatment of patients with myelodysplastic syndromes (MDS).
- Safety and efficacy of Promacta have not been established in combination with direct-acting antiviral agents used without interferon for treatment of chronic hepatitis C infection.
- Nplate should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increases the risk for bleeding.
- Nplate should not be used in an attempt to normalize platelet counts.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of Arizona Complete Health that Doptelet, Mulpleta, Nplate, Promacta, and Tavalisse are **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Chronic Immune Thrombocytopenia (must meet all):

- 1. Diagnosis of chronic ITP; or for Nplate diagnosis of ITP;
- 2. Request is for one of the following: Doptelet, Nplate, Promacta tablets, or Tavalisse;
- 3. Prescribed by or in consultation with a hematologist;
- 4. Member meets one of the following (a or b):
 - a. For Nplate or Promacta tablets: age ≥ 1 year;
 - b. For Doptelet or Tavalisse: age \geq 18 years;
- 5. Current (within 30 days) platelet count is < 30,000/µL or member has an active bleed;
- 6. Member has one of the following (a or b);
 - a. Failure of a systemic corticosteroid;
 - b. Member has intolerance or contraindication to systemic corticosteroids, and failure of an immune globulin, unless contraindicated or clinically significant adverse effects are experienced (*see Appendix B*);
 - *Prior authorization may be required for immune globulins
- 7. For Doptelet or Tavalisse: Failure of Nplate and Promacta tablets, each used for ≥ 3 consecutive months, unless contraindicated or clinically significant adverse effects are experienced;
- 8. Doptelet, Promacta, Nplate is not prescribed concurrently with rituximab or another thrombopoietin receptor agonist (e.g., Promacta®, Nplate®, Doptelet®);
- 9. Dose does not exceed maximum dose indicated in Section V.



Approval duration: 6 months

B. Chronic Hepatitis C-Associated Thrombocytopenia (must meet all):

- 1. Diagnosis of chronic hepatitis C-associated thrombocytopenia;
- 2. Request is for Promacta tablets;
- 3. Prescribed by or in consultation with a hematologist, hepatologist, gastroenterologist or infectious disease specialist;
- 4. Age \geq 18 years;
- 5. Promacta will be used concomitantly with interferon-based therapy;
- 6. The degree of thrombocytopenia has prevented the initiation of interferon-based therapy or limited the ability to maintain interferon-based therapy;
- 7. Current (within 30 days) platelet count is $< 75,000/\mu L$;
- 8. Dose does not exceed 100 mg (2 tablets) per day.

Approval duration: 6 months

C. Severe Aplastic Anemia (must meet all):

- 1. Diagnosis of severe aplastic anemia;
- 2. Request is for Promacta tablets;
- 3. Prescribed by or in consultation with a hematologist;
- 4. Age \geq 2 years;
- 5. For members aged 2-18 years, Promacta is prescribed in combination with immunosuppressive therapy (e.g., Atgam®, cyclosporine, cyclophosphamide); *Prior authorization may be required for Atgam and cyclosphosphamide
- 6. Current (within 30 days) platelet count is $< 50,000/\mu L$;
- 7. Dose does not exceed 150 mg (2 tablets) per day.

Approval duration: 6 months

D. Thrombocytopenia with Chronic Liver Disease (must meet all):

- 1. Diagnosis of chronic liver disease;
- 2. Request is for Doptelet or Mulpleta;
- 3. Prescribed by or in consultation with a hematologist, hepatologist, or gastroenterologist;
- 4. Age \geq 18 years;
- 5. Recent (within the past 14 days) platelet count is $< 50 \times 10^9 / L$;
- 6. For members with platelet count < 40 x 10⁹/L, failure of Mulpleta® unless contraindicated or clinically significant adverse effects are experienced;
 - *Prior authorization is (or may be) required for Mulpleta
- 7. Member is scheduled to undergo a medical or dental procedure within the next 30 days;
- 8. Dose does not exceed maximum dose indicated in Section V.

Approval duration: 6 months

E. Myelodysplastic Syndromes (off-label) (must meet all):

- 1. Diagnosis of myelodysplastic syndromes (MDS);
- 2. Request is for Nplate or Promacta;
- 3. Prescribed by or in consultation with an oncologist or hematologist;
- 4. Member has lower-risk MDS (IPSS-R (Very Low, Low, Intermediate), IPSS (Low/Intermediate-1), WPSS (Very Low, Low, Intermediate);



- 5. Member has severe or refractory thrombocytopenia following disease progression or no response to hypomethylating agents (e.g., azacitadine, decitabine), immunosuppressive therapy (e.g., Atgam[®], cyclosporine), or clinical trial;
- 6. Request meets one of the following (a or b):*
 - a. Dose does not exceed 10 mcg/kg per week;
 - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration: 6 months

F. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): AZ.CP.PMN.53 for Arizona Medicaid.

II. Continued Therapy

- **A. All Indications in Section I** (must meet all):
- 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
- 2. Member is responding positively to therapy (see Appendix D);
- 3. For Chronic Immune Thrombocytopenia (must meet all),:
 - a. Request is for Nplate, Promacta tablets, or Tavalisse;
 - b. If request is for Doptelet, history of failure of Nplate and Promacta tablets unless contraindicated or clinically significant adverse effects are experienced;
 - c. Current (within the last 90 days) platelet count is $< 400,000/\mu L$;
- 4. For Chronic Hepatitis C-associated Thrombocytopenia (must meet all):
 - a. Request is for Promacta tablets;
 - b. Current (within the last 90 days) platelet count is $< 400,000/\mu L$;
 - c. Member continues to receive interferon-based therapy;
- 5. For Severe Aplastic Anemia (must meet all):
 - a. Request is for Promacta tablets;
 - b. Current (within the last 90 days) platelet count is $< 400,000/\mu L$;
- 6. For Thrombocytopenia with Chronic Liver Disease (must meet all):
 - a. Request is for Doptelet or Mulpleta;
 - b. Re-authorization is not permitted. Members must meet the initial approval criteria:
- 7. For Myelodysplatic Syndromes
 - a. Request is for Nplate or Promacta;
 - b. If request is for a dose increase, request meets one of the following (i or ii):*
 - i. New dose does not exceed 10 mcg/kg per week;
 - ii. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).
 - *Prescribed regimen must be FDA-approved or recommended by NCCN
- 8. If request is for a dose increase, new dose does not exceed maximum dose indicated in Section V.

Approval duration:

Thrombocytopenia – Not applicable;



Hepatitis C-associated thrombocytopenia – 6 months; All other indications – 12 months

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – AZ.CP.PMN.53 for Arizona Medicaid

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key
FDA: Food and Drug Administration
ITP: chronic immune thrombocytopenia
IPSS: International Prognostic Scoring System

IPSS-R: Revised International Prognostic Scoring System

ITP: chronic immune thrombocytopenia MDS: myelodysplastic syndromes

WPSS: WHO Classification-based Prognostic Scoring System

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

and may require prior authorization.				
Drug Name	Dosing Regimen	Dose Limit/		
		Maximum Dose		
Corticosteroids*				
dexamethasone	ITP	Dosage must be		
	Oral dosage:	individualized and is		
	Adults: Initially, 0.75 to 9 mg/day PO,	highly variable		
	given in 2 to 4 divided doses. Adjust	depending on the nature		
	according to patient response.	and severity of the		
	Children and adolescents: 0.024 to 0.34	disease, route of		
	mg/kg/day PO or 0.66 to 10 mg/m2 /day	treatment, and on patient		
	PO, given in 2 to 4 divided doses	response.		
	Intramuscular or intravenous dosage:			
	Adults: Initially, 0.5 to 9 mg/day IV or			
	IM, given in 2 to 4 divided doses. Adjust			
	according to patient response.			
	Children: 0.06 to 0.3 mg/kg/day or 1.2 to			
	10 mg/m ² /day IV or IM in divided doses			
	every 6 to 12 hours. Adjust according to			
	patient response.			
methylprednisolone	ITP	Dosage must be		
	Oral dosage:	individualized and is		
	Adults: 4 to 48 mg/day PO in 4 divided	highly variable		
	doses. Adjust according to patient	depending on the nature		



D. N.				
Drug Name	Dosing Regimen	Dose Limit/		
		Maximum Dose		
	response.	and severity of the		
	Children: 0.5 to 1.7 mg/kg/day PO in	disease, route of		
	divided doses every 6 to 12 hours	treatment, and on patient		
		response.		
	Intravenous dosage:			
	Adults: 10 to 40 mg IV every 4 to 6 hours			
	for up to 72 hours			
	Children: 0.11 to 1.6 mg/kg/day IV in 3			
	or 4 divided doses.			
prednisone	ITP	Dosage must be		
	Adults: Initially, 1 mg/kg PO once daily;	individualized and is		
	however, lower doses of 5 mg/day to 10	highly variable		
	mg/day PO are preferable for long-term	depending on the nature		
	treatment.	and severity of the		
		disease, route of		
		treatment, and on patient		
		response.		
Immune globulins				
immune globulins	ITP	Refer to prescribing		
(e.g., Carimune®	Refer to prescribing information	information		
NF, Flebogamma®				
DIF 10%,				
Gammagard® S/D,				
Gammaked™,				
Gamunex®-C,				
Gammaplex®,				
Octagam® 10%,				
Privigen®)				
Immunosuppressive	S			
Atgam®	Aplastic anemia	Varies		
(antithymocyte	10 to 20 mg/kg/day IV infusion for 8 to			
globulin)	14 days, continuing with every-other-day			
	dosing up to a total of 21 doses, if needed			
	Off-label dosing: 40 mg/kg IV daily for			
	four consecutive days in combination			
	with cyclosporine			
cyclosporine†	Aplastic anemia	Varies		
(Sandimmune®)	12 mg/kg PO daily			
cyclophosphamide†	Aplastic anemia	Varies		
	45 to 50 mg/kg IV divided over 4 days			
] , ,			

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.



*Examples of corticosteroids/immunosuppressive agents provided are not all inclusive †Off-label indication

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): none reported
- Boxed warning(s): In patients with chronic hepatitis C, Promacta in combination with interferon and ribavirin may increase the risk of hepatic decompensation. Promacta may increase the risk of severe and potentially life threatening hepatotoxicity. Monitor hepatic function and discontinue dosing as recommended.

Appendix D: General Information

- Definitions of acute v. chronic ITP:
 - o Per an International Working Group consensus panel of ITP experts, ITP is defined as newly diagnosed (diagnosis to 3 months), persistent (3 to 12 months from diagnosis), or chronic (lasting for more than 12 months). Although not formally validated, these definitions are supported and used by the American Society of Hematology (ASH).
- Per the 2011 ASH guidelines, response to treatment was defined by the following:
 - o A response would be defined as a platelet count $\geq 30,000/\mu L$ and a greater than 2-fold increase in platelet count from baseline measured on 2 occasions > 7 days apart and the absence of bleeding.
 - A failure would be defined as a platelet count < 30,000/μL or a less than 2-fold increase in platelet count from baseline or the presence of bleeding. Platelet count must be measured on 2 occasions more than a day apart.
- Examples of positive response to therapy may include:
 - o For ITP or hepatitis C-associated thrombocytopenia:
 - Increase in platelet count from baseline levels;
 - Platelet count $\geq 50,000/\mu L$;
 - Reduction in clinically important bleeding events:
 - o For aplastic anemia: any of the following hematologic responses:
 - Platelet count $\geq 50,000/\mu L$;
 - Platelet count increases to 20,000/μL above baseline or stable platelet counts with transfusion independence for a minimum of 8 weeks;
 - Hemoglobin increase > 1.5 g/dL, or a reduction of ≥ 4 units of red blood cell (RBC) transfusions for 8 consecutive weeks;
 - Absolute neutrophil count (ANC) increase of 100% or an ANC increase greater than 500/μL.
- Examples of chronic liver disease include: alcoholic liver disease, chronic viral hepatitis (e.g., hepatitis B and C), and nonalcoholic steatohepatitis.
- MDS prognostic scoring system online calculators are available below:
 - o IPSS-R: https://www.mds-foundation.org/ipss-r-calculator/
 - o IPSS: https://qxmd.com/calculate/calculator_123/mds-intnl-prognostic-scoring-sysipss
 - o WPSS: https://qxmd.com/calculate/calculator_143/mds-who-classification-based-prognostic-scoring-system-wpss

V. Dosage and Administration



Drug Name	Indication	Dosing Regimen	Maximum Dose
avatrombopag	Thrombocytopenia	Platelet count $< 40 \times 10^9$ /L:	See regimen
(Doptelet)	J 1	60 mg PO QD for a total of	8
, ,		5 days	
		, and the second	
		Platelet count of 40 to < 50	
		$\times 10^{9}$ /L: 40 mg PO QD for a	
		total of 5 days	
eltrombopag	Chronic ITP	Adults and pediatrics age ≥	75 mg/day
(Promacta)		6 years: 50 mg PO QD	
		Pediatrics age 1 to 5 years:	
		25 mg PO QD Dose	
		reductions are needed for	
		patients with hepatic	
		impairment and some	
		patients of East Asian	
		ancestry. Adjust to maintain	
		platelet count greater than or	
		equal to 50,000/µL.	
	Chronic hepatitis	25 mg PO QD	100 mg/day
	C-associated		,
	thrombocytopenia	Adjust to achieve target	
		platelet count required to	
		initiate antiviral therapy.	
	Severe aplastic	After an insufficient	150 mg/day
	anemia	response to	
		<u>immunosuppressive</u> <u>therapy</u> :	
		50 mg PO QD	
		Reduce initial dose in	
		patients with hepatic	
		impairment or patients of	
		East Asian ancestry. Adjust	
		to maintain platelet count	
		greater than 50,000/µL.	
		For first-line treatment in	
		combination with	
		immunosuppressive therapy:	
		B	
		Patients 12 years and older:	
		150 mg PO QD	
		Patients 6 to 11 years: 75	
		mg PO QD	
		Patients 2 to 5 years: 2.5	
		mg/kg PO QD	



Drug Name	Indication	Dosing Regimen	Maximum Dose
		Reduce initial dose in	
		patients with hepatic	
		impairment or patients of	
		East Asian ancestry. Adjust	
		to maintain platelet count	
		greater than 50,000/µL.	
		Total duration of treatment	
		is 6 months.	
fostamatinib	ITP	100 mg PO BID; after 4	300 mg/day
(Tavalisse)		weeks, increase to 150 mg	
		BID, if needed, to achieve	
		platelet counts of at least 50	
		x 10 ⁹ /L	
lusutrombopag	Thrombocytopenia	3 mg PO QD for a total of 7	3 mg/day
(Mulpleta)		days	
romiplostim	ITP	The initial dose is 1 mcg/kg	10 mcg/kg/week
(Nplate)		SC based on actual body	
		weight. Adjust weekly dose	
		by increments of 1 mcg/kg	
		to achieve and maintain a	
		platelet count $\geq 50,000/\mu L$	
		as necessary to reduce the	
		risk for bleeding. Do not	
		dose if platelet count is >	
		400,000/μL.	

VI. Product Availability

Drug Name	Availability	
avatrombopag (Doptelet)	Tablet: 20 mg	
alternation and (December 1)	Tablets: 12.5 mg, 25 mg, 50 mg, 75 mg	
eltrombopag (Promacta)	Oral suspension: 12.5 mg, 25 mg	
fostamatinib (Tavalisse)	Tablet: 100 mg, 150 mg	
lusutrombopag (Mulpleta)	Tablet: 3 mg	
rominlostim (Maleta)	Lyophilized powder in single-dose vials for injection: 125	
romiplostim (Nplate)	mcg, 250 mcg, 500 mcg	

VII. References

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- 17. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: http://www.nccn.org/professionals/drug_compendium. Accessed November 19, 2019.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J2796	Injection, romiplostim, 10 mcg



Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	07.29.19	07.19
Added criterion to continued therapy for history of failure of Nplate and Promacta tablets for Doptelet only for CIT indication, since grandparenting only applies to Tavalisse; Added new CIT indication for Doptelet.	10.7.19	10.19
1Q 2020 annual review: updated failure of corticosteroids and immune globulins to be at up to maximally indicated dose for dx of Chronic Immune Thrombocytopenia; For Nplate and Promacta, revised criteria to allow use in non-chronic ITP per revised prescribing information; removed MDS from excluded diagnoses and added criteria set as NCCN supported category 2A recommendation for use; references reviewed and updated. Renumbered criteria from AZ.CP.PHAR.05 to AZ.CP.PHAR.1019.	01.13.20	01.20
For chronic immune thrombocytopenia: added requirement that Doptelet, Promacta, Nplate is not prescribed concurrently with rituximab or other thrombopoietin receptor agonists for ITP; revised systemic corticosteroid and immune globulin trial to tiered re-direction with immune globulin trial only if corticosteroid cannot be used per ASH 2011 guideline and specialist feedback.	07.13.20	07.20

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.



This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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