


Prior Authorization Review Panel

CHC-MCO Policy Submission

A separate copy of this form must accompany each policy submitted for review.
Policies submitted without this form will not be considered for review.

Plan: PA Health & Wellness	Submission Date: 02/01/2021
Policy Number: PA.CP.PHAR.450	Effective Date: 07/2020 Revision Date: 01/2021
Policy Name: Luspatercept-aamt (Reblozyl)	
<p>Type of Submission – <u>Check all that apply</u>:</p> <p> <input type="checkbox"/> New Policy <input checked="" type="checkbox"/> Revised Policy* <input type="checkbox"/> Annual Review - No Revisions <input type="checkbox"/> Statewide PDL - <i>Select this box when submitting policies for Statewide PDL implementation and when submitting policies for drug classes included on the Statewide PDL.</i> </p>	
<p>*All revisions to the policy <u>must</u> be highlighted using track changes throughout the document.</p> <p>Please provide any changes or clarifying information for the policy below:</p> <p>1Q 2021 annual review: no significant changes; references reviewed and updated.</p>	
Name of Authorized Individual (Please type or print): Auren Weinberg, MD	Signature of Authorized Individual: 

Clinical Policy: Luspatercept-aamt (Reblozyl)

Reference Number: PA.CP.PHAR.450

Effective Date: 07/2020

Last Review Date: 01/2021

[Revision Log](#)

Description

Luspatercept-aamt (Reblozyl[®]) is an erythroid maturation agent.

FDA Approved Indication(s)

Reblozyl is indicated for the treatment of anemia in adult patients with:

- Beta thalassemia who require regular red blood cell (RBC) transfusions
- Very low- to intermediate-risk myelodysplastic syndromes with ring sideroblasts (MDS-RS) or with myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis (MDS/MPN-RS-T) failing an erythropoiesis stimulating agent and requiring 2 or more RBC units over 8 weeks

Limitation(s) of use: Not indicated for use as a substitute for RBC transfusions in patients who require immediate correction of anemia.

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 health plans affiliated with PA Health & Wellness[®] that Reblozyl is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Transfusion Dependent Beta Thalassemia (must meet all):

1. Diagnosis of transfusion dependent thalassemia (TDT) with one of the following genotypes (a or b):
 - a. Beta thalassemia;
 - b. Hemoglobin E/beta thalassemia;
2. Prescribed by or in consultation with a hematologist;
3. Age \geq 18 years;
4. Total volume of transfusions at least 6 RBC units (*see Appendix D*) within the last 6 months;
5. No transfusion-free period \geq 35 days within the last 6 months;
6. Documentation of baseline transfusion burden within the last 6 months;
7. Dose does not exceed 1 mg/kg every 3 weeks.

Approval duration: 2 months (2 doses)

B. Myelodysplastic Syndromes (must meet all):

1. Diagnosis of MDS-RS or MDS/MPN-RS-T that meets one of the following classifications (a, b, or c) (*see Appendix E*):
 - a. Very low, low, or intermediate risk as classified by IPSS-R;
 - b. Low/intermediate-1 risk as classified by IPSS;

- c. Very low, low, or intermediate risk as classified by WPSS;
- 2. Prescribed by or in consultation with a hematologist or oncologist;
- 3. Age \geq 18 years;
- 4. Member requires \geq 2 RBC units per 8 weeks documented for at least the last 16 weeks;
- 5. Failure of an 8 week trial of an erythropoiesis-stimulating agent (ESA) used in combination with a granulocyte colony stimulating factor (G-CSF) (*see Appendix B*), unless one of the following applies (a or b):
 - a. Clinically significant adverse effects are experienced or all are contraindicated;
 - b. Documentation of current serum erythropoietin $>$ 500 mU/mL;
- 6. Member has one of the following (a or b):
 - a. Ring sideroblast \geq 15% of erythroid precursors in bone marrow;
 - b. Ring sideroblast \geq 5% if SF3B1 mutation is present;
- 7. Member does not have del(5q) cytogenetic abnormality;
- 8. Request meets one of the following (a or b):
 - a. Dose does not exceed 1 mg/kg every 3 weeks;
 - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

Approval duration: 2 months (2 doses)

C. Other diagnoses/indications

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

II. Continued Therapy

A. Transfusion Dependent Beta Thalassemia (must meet all):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01);
- 2. Member meets one of the following (a or b):
 - a) Member is responding positively to therapy as evidenced by at least a 33% reduction in transfusion burden from baseline;
 - b) Request is for a dose increase;
- 3. If request is for a dose increase, new dose does not exceed (a or b):
 - a) 1 mg/kg every 3 weeks;
 - b) 1.25 mg/kg every 3 weeks, and documentation supports inadequate response to 1 mg/kg dosing.

Approval duration: 6 months

B. Myelodysplastic Syndromes (must meet all):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01);
- 2. Member meets one of the following (a or b):
 - a. Member is responding positively to therapy as evidenced by a decreased transfusion burden;

- b. Request is for a dose increase;
- 3. If request is for a dose increase, request meets one of the following (a, b, c, or d):
 - a. New dose does not exceed 1 mg/kg every 3 weeks;
 - b. New dose does not exceed 1.33 mg/kg every 3 weeks, and documentation supports lack of transfusion independence after 2 consecutive doses at 1 mg/kg dosing;
 - c. New dose does not exceed 1.75 mg/kg every 3 weeks and documentation supports lack of transfusion independence after 2 consecutive doses at 1.33 mg/kg dosing;
 - d. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

Approval duration: 6 months (2 months [2 doses] if request is for a dose increase)

C. Other diagnoses/indications (must meet 1 or 2):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01);

Approval duration: Duration of request or 6 months (whichever is less); or

- 2. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

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 – PA.CP.PMN.53

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

ESA: erythropoiesis-stimulating agent

FDA: Food and Drug Administration

G-CSF: granulocyte colony stimulating factor

Hb: hemoglobin

IPSS: International Prognostic Scoring System

IPSS-R: International Prognostic Scoring System - Revised

MDS: myelodysplastic syndromes

MDS-RS: myelodysplastic syndromes with ring sideroblasts

MDS/MPN-RS-T: myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis

TDT: transfusion dependent thalassemia

WPSS: WHO Classification-based 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.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Procrit [®] , Epogen [®] , Retacrit [®] (epoetin alfa)*	MDS: 40,000 to 60,000 SC units 1 to 2 times per week every week	Target hemoglobin up to 12 g/dL
Aranesp [®] (darbepoetin alfa)*	MDS: 150 to 300 mcg SC every other week	Target hemoglobin up to 12 g/dL
Neupogen [®] , Nivestym [™] , Granix [®] , Zarxio [®] (filgrastim)	MDS: 1 to 2 mcg/kg SC 1 to 2 times per week	Varies

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.

**Off-label*

Appendix C: Contraindications/Boxed Warnings

None reported

Appendix D: General Information

- Conversion of RBC units from mL: 1 RBC unit in this criteria refers to a quantity of packed RBCs approximately 200-350 mL.
 - Sites who use transfusion bags within this range, or ≥ 350 mL, the conversion in units should be done by dividing the volume transfused to the patient by 350 mL,
 - Sites who use transfusion bags < 200 mL, the conversion in units should be done by dividing the volume transfused to the patient by 200 mL.
- MDS and serum erythropoietin level
 - According to NCCN, for the treatment of symptomatic anemia in MDS with ring sideroblasts $\geq 15\%$ (or ring sideroblasts $\geq 5\%$ with an SF3B1 mutation), a trial of either recombinant human erythropoietin or darbepoetin in combination with a G-CSF is recommended when serum erythropoietin level is ≤ 500 mU/mL. If serum erythropoietin level is > 500 mU/mL for this indication, Reblozyl is recommended.
- MDS and combination treatment with ESA + G-CSF
 - This is the recommended combination per NCCN for the treatment of symptomatic anemia in MDS with ring sideroblasts $\geq 15\%$ (or ring sideroblasts $\geq 5\%$ with an SF3B1 mutation). Evidence suggests that G-CSF has synergistic erythropoietic activity when used in combination with an ESA and markedly enhances the erythroid response rates due to enhanced survival of red cell precursors. This is particularly evident for patients with greater than or equal to 15% ring sideroblasts in the marrow and serum erythropoietin level ≤ 500 mU/mL.
- MDS/MPN-RS-T indication
 - During regulatory review of the MEDALIST data by the FDA, a post-hoc re-classification of patients using the WHO 2016 criteria was conducted to assess the efficacy and safety of Reblozyl in patients with MDS/MPN-RS-T. Among the 229 patients enrolled in MEDALIST, 23 patients were found to have a diagnosis of MDS/MPN-RS-T following this re-classification. In these patients with MDS/MPN-RS-T, a greater proportion of patients treated with Reblozyl (64.3%; n = 9/14) achieved the primary endpoint of transfusion independence for at least 8 weeks during weeks 1-24 compared to placebo (22.2%; n = 2/9).

Appendix E: MDS Risk Classification

- International Prognostic Scoring System - Revised (IPSS-R) classification:

Risk Category	Risk Score
Very low	≤ 1.5
Low	$< 1.5 - 3$
Intermediate	$< 3 - 4.5$
High	$< 4.5 - 6$
Very high	> 6

- International Prognostic Scoring System (IPSS) classification:

Risk Category	Risk Score
Low	0
Intermediate-1	0.5 – 1
Intermediate-2	1.5 – 2
High	2.5 – 3.5

- WHO Classification-based Prognostic Scoring System (WPSS) classification:

Risk Category	Risk Score
Very low	0
Low	1
Intermediate	2
High	3 – 4
Very high	5 – 6

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Transfusion-dependent beta thalassemia	<p>1 mg/kg SC once every 3 weeks</p> <p>Evaluation hemoglobin (Hgb) prior to next planned administration. If pre-dose Hgb ≥ 11.5 g/dL and Hgb level is not influenced by recent transfusion, delay dosing until the Hgb is ≤ 11 g/dL.</p> <p>If a patient does not achieve a reduction in RBC transfusion burden after at least 2 consecutive doses (6 weeks) at the 1 mg/kg starting dose, increase to max dose of 1.25 mg/kg.</p>	1.25 mg/kg
MDS	<p><u>Initial:</u> 1 mg/kg SC once every 3 weeks</p> <p><u>Dose increases for insufficient response after initiation of treatment:</u></p> <p>If a patient is not RBC transfusion-free after at least 2 consecutive doses (6 weeks) at the 1 mg/kg starting dose, increase the dose to 1.33 mg/kg SC every 3 weeks.</p>	1.75 mg/kg

Indication	Dosing Regimen	Maximum Dose
	<p>If a patient is not RBC transfusion-free after at least 2 consecutive doses (6 weeks) at the 1.33 mg /kg dose level, increase the dose to a maximum of 1.75 mg/kg SC every 3 weeks.</p> <p>Discontinue if a patient does not experience a decrease in transfusion burden after 9 weeks of treatment (administration of 3 doses) at the maximum dose level or if unacceptable toxicity occurs at any time</p>	

VI. Product Availability

Single dose vials for injection: 25 mg, 75 mg

VII. References

1. Reblozyl Prescribing Information. Cambridge, MA: Acceleron Pharma, Inc. April 2020. Available at: www.reblozyl.com. Accessed October 27, 2020.
2. Cappellini MD, Vipralasit V, Taher A, et al. The BELIEVE Trial: Results of a phase 3, randomized, double-blind, placebo-controlled study of luspatercept in adult beta-thalassemia patients who require regular red blood cell (RBC) transfusions [Oral]. Oral presented at: 60th American Society of Hematology Annual Meeting and Exposition (ASH); December 1-4, 2018; San Diego, CA.
3. Cappellini MD, Cohen A, Porter J, et al. Guidelines for the management of transfusion dependent thalassemia (TDT) 3rd Edition. Thalassemia International Federation (2014):20.
4. Fenaux P, Platzbecker U, Mufti GJ, et al. Luspatercept in patients with lower-risk myelodysplastic syndromes. *N Engl J Med*. 2020;382:140-151.
5. National Comprehensive Cancer Network. Myelodysplastic Syndromes Version 1.2021. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mds.pdf. Accessed October 27, 2020.
6. Patnaik MM, Tefferi A. Refractory anemia with ring sideroblasts (RARS) and RARS with thrombocytosis (RARS-T) – “2019 Update on Diagnosis, Risk-stratification, and Management.” *Am J Hematol*. 2019;94(4): 475–488.
7. Reblozyl Data on File. Use of Reblozyl (luspatercept-aamt) in patients with myelodysplastic/myeloproliferative neoplasm with ring sideroblasts and thrombocytosis. Bristol Meyers Squibb. 2020 May.

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

The following is a list of diagnosis codes that support coverage for the applicable covered procedure code(s).

ICD-10-CM Code	Description
D56.1*	Beta thalassemia

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created.	07/2020	
1Q 2021 annual review: no significant changes; references reviewed and updated.	01/2021	