

Erythropoiesis Stimulating Agents (ESAs)

Override(s)	Approval Duration
Prior Authorization Quantity Limit	Dialysis-dependent use: 1 year All others: 6 months

Medications	Quantity Limit	Comments
Procrit (epoetin alfa) 2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL; 40,000 Units/mL Vial** 20,000 Units/2 mL Multi-Dose Vial**	12 vials (12 mL) per 28 days 6 vials (12 mL) per 28 days	Preferred
Epogen (epoetin alfa) 2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL Vial* 20,000 Units/2 mL Multi-Dose Vial* Retacrit (epoetin alfa-epbx) 2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL; 40,000 Units/mL Vial* 20,000 Units/2 mL Multi-Dose Vial*	12 vials (12 mL) per 28 days 6 vials (12 mL) per 28 days 12 vials (12 mL) per 28 days 6 vials (12 mL) per 28 days	Non-Preferred

*When Epogen (epoetin alfa) is being used to reduce the need for allogeneic red blood cell transfusions in elective, noncardiac, nonvascular surgery, may allow up to an additional 3 vials (2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL; 20,000 Units/2 mL) in a rolling 28 days for completion of therapy.

**When Procrit (epoetin alfa) is being used to reduce the need for allogeneic red blood cell transfusions in elective, noncardiac, nonvascular surgery, may allow up to an additional 3 vials (2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL; 20,000 Units/2 mL; 40,000 Units/mL) in a rolling 28 days for completion of therapy.

*When Retacrit (epoetin alfa-epbx) is being used to reduce the need for allogeneic red blood cell transfusions in elective, noncardiac, nonvascular surgery, may allow up to an

additional 3 vials (2,000 Units/mL; 3,000 Units/mL; 4,000 Units/mL; 10,000 Units/mL; 20,000 Units/mL; 20,000 Units/2 mL; 40,000 Units/mL) in a rolling 28 days for completion of therapy.

APPROVAL CRITERIA

In addition to criteria outlined below, requests for Epogen (epoetin alfa) or Retacrit (epoetin alfa-epbx) must also meet the following criteria:

- I. Individual has had a trial and inadequate response or intolerance to Procrit (epoetin alfa) (not covered in CA, CO) or Aranesp (darbopoetin alfa); **OR**
- II. Individual is dialysis-dependent and using in conjunction with dialysis.

AND

Initial requests for Procrit (epoetin alfa), Epogen (epoetin alfa), or Retacrit (epoetin alfa-epbx) may be approved if the following criteria are met:

- I. Individual has a baseline hemoglobin (Hgb) level less than 10 g/dL; **AND**
- II. Baseline iron status is adequate as defined by one of the following:
 - A. Transferrin saturation is at least 20% **OR**
 - B. Ferritin is at least 80 ng/mL **OR**
 - C. Bone marrow demonstrates adequate iron stores; **AND**
- III. Individual is using for one of the following:
 - A. Anemia associated with chronic kidney disease (CKD), for individuals on dialysis, to achieve and maintain Hgb levels within the range of 10 to 11 g/dL; **OR**
 - B. Anemia associated with CKD for individuals not on dialysis, to achieve and maintain Hgb levels of 10g/dL; **OR**
 - C. Myelosuppressive chemotherapy when the following are met:
 1. Chemotherapy is planned for a minimum of 2 months; **AND**
 2. Individual has a diagnosis of non-myeloid cancer and the anticipated outcome is not cure; **OR**
 - D. Myelodysplastic syndrome with an endogenous erythropoietin level less than or equal to 500 mU/mL (NCCN 2A); **OR**
 - E. HIV infection, receiving zidovudine at a dose less than or equal to 4200 mg/week, with an endogenous erythropoietin level less than or equal to 500 mU/mL

Continuation requests for Procrit (epoetin alfa), Epogen (epoetin alfa), or Retacrit (epoetin alfa-epbx) may be approved if the following criteria are met:

- I. Individual demonstrates continued need for ESA treatment and has confirmation of response to treatment as evidenced by an increase in hemoglobin levels from baseline (i.e., increase of approximately 1 g/dL or greater from baseline); **AND**
- II. Individual is using the lowest ESA dose necessary to avoid transfusions; **AND**
- III. Individual meets one of the following criteria:
 - A. Hemoglobin level is not greater than 11.0 g/dL for CKD individuals on dialysis, or greater than 10.0 g/dL for CKD non-dialysis, unless otherwise specified (for example, pediatric individuals with CKD where target Hgb levels is within the range of 10 to 12 g/dL); **OR**

- B. Hemoglobin level is not greater than 11.0 g/dL for individuals using for myelosuppressive chemotherapy related anemia or myelodysplastic syndrome; **OR**
- C. Hemoglobin level is not greater than 12.0 g/dL for zidovudine-related anemia in patients with HIV (Label);

AND

- IV. If using for myelosuppressive chemotherapy-related anemia, individual is not using beyond 6 weeks after chemotherapy has completed.

Initial and continuation requests for Procrit (epoetin alfa) or Epogen (epoetin alfa), or Retacrit (epoetin alfa-epbx) may also be approved if the following criteria are met:

- I. Individual is undergoing elective, non-cardiac, non-vascular surgery and requires Epogen (epoetin alfa), Procrit (epoetin alfa), or Retacrit (epoetin alfa-epbx) to reduce the need for allogeneic blood transfusion; **AND**
 - A. Individual's hemoglobin levels are greater than 10 to less than or equal to 13 g/dL; **AND**
 - B. Individual is at high risk for perioperative transfusions with significant, anticipated blood loss; **AND**
 - C. Baseline iron status reveals:
 - 1. Transferrin saturation is at least 20%; **OR**
 - 2. Ferritin is at least 80 ng/mL; **OR**
 - 3. Bone marrow demonstrates adequate iron stores

Procrit (epoetin alfa) or Epogen (epoetin alfa), or Retacrit (epoetin alfa-epbx) may **not** be approved for the following:

- I. Continued use when the hemoglobin level exceeds 11 g/dL unless (for example, pediatric individuals with CKD where target Hgb levels within the range of 10 to 12 g/dL); **OR**
- II. Individuals with uncontrolled hypertension; **OR**
- III. Use beyond 12 weeks of continuous treatment at therapeutic doses in the absence of response in individuals with CKD; **OR**
- IV. Use beyond 8 weeks of continuous treatment at therapeutic doses in the absence of response in individuals with myelodysplastic syndrome (MDS); **OR**
- V. Use beyond 8 weeks of continuous treatment at therapeutic doses in the absence of response or if transfusions are still required in individuals with metastatic, non-myeloid cancer being treated with myelosuppressive chemotherapy agents known to produce anemia; **OR**
- VI. As a treatment in the presence of sudden loss of response with severe anemia and low reticulocyte count; **OR**
- VII. To treat anemia in individuals with cancer receiving myelosuppressive chemotherapy in whom the anemia can be managed by transfusion; **OR**
- VIII. Continued use beyond 6 weeks after therapy with myelosuppressive chemotherapy known to produce anemia is completed; **OR**

Note:

Erythropoiesis-stimulating agents (ESAs) have black box warnings for an increased risk of death, myocardial infarction, stroke, venous thromboembolism, thrombosis of vascular access, and tumor progression or recurrence.

For CKD: In controlled trials, individuals experienced greater risks for death, serious adverse cardiovascular reactions and stroke when ESAs were administered to target a Hgb level greater than 11 g/dL. Use the lowest dose needed to reduce the need for red blood cell (RBC) transfusions.

For Cancer: In controlled trials, ESAs shortened overall survival and/or increased the risk for tumor progression or recurrence in individuals with breast, non-small cell lung, head and neck, lymphoid, and cervical cancers. Use the lowest dose needed to avoid RBC transfusions. Use ESAs only for anemia from myelosuppressive chemotherapy when the anticipated outcome is not cure and discontinue ESAs following completion of a chemotherapy course.

For Perisurgery: Deep venous thrombosis (DVT) prophylaxis is recommended due to increased risk for DVTs.

Key References:

1. Bohlius J, Bohlke K, Castelli R, et al. Management of cancer-associated anemia with erythropoiesis-stimulating agents: ASCO/ASH clinical practice guideline update. *J Clin Oncol*. 2019;37(15):1336-1351.
2. Clinical Pharmacology [database online]. Tampa, FL: Gold Standard, Inc.; 2021. URL: <http://www.clinicalpharmacology.com>. Updated periodically.
3. DailyMed. Package inserts. U.S. National Library of Medicine, National Institutes of Health website. <http://dailymed.nlm.nih.gov/dailymed/about.cfm>. Accessed: July 14, 2021.
4. DrugPoints® System [electronic version]. Truven Health Analytics, Greenwood Village, CO. Updated periodically.
5. Kidney Disease: Improving Global Outcomes (KDIGO) Anemia Work Group. KDIGO Clinical Practice Guideline for Anemia in Chronic Kidney Disease. *Kidney Inter*. 2012; Suppl 2: 279–335. Available from: https://www.kidney.org/professionals/guidelines/guidelines_commentaries/anemia. Accessed on: July 14, 2021.
6. Lexi-Comp ONLINE™ with AHFS™, Hudson, Ohio: Lexi-Comp, Inc.; 2021; Updated periodically.
7. NCCN Clinical Practice Guidelines in Oncology™. © 2021 National Comprehensive Cancer Network, Inc. For additional information visit the NCCN website: <http://www.nccn.org/index.asp>. Accessed on July 14, 2021.
 - a. Hematopoietic Growth Factors. Version 4.2021. Revised May 20, 2021.
 - b. Myelodysplastic Syndromes. Version 3.2021. Revised January 15, 2021.

Federal and state laws or requirements, contract language, and Plan utilization management programs or policies may take precedence over the application of this clinical criteria.

No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without permission from the health plan.

