

**Clinical Policy: Epoetin Alfa (Epogen, Procrit), Epoetin Alfa-epbx (Retacrit)**

Reference Number: CP.PHAR.237

Effective Date: 06.01.16

Last Review Date: 05.25

Line of Business: Commercial, HIM, Medicaid

[Coding Implications](#)

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

**Description**

Epoetin alfa (Epogen<sup>®</sup>, Procrit<sup>®</sup>) and its biosimilar, epoetin alfa-epbx (Retacrit<sup>™</sup>), are erythropoiesis-stimulating agents (ESAs).

**FDA Approved Indication(s)**

Epogen, Procrit, and Retacrit are indicated for:

- Treatment of anemia due to:
  - Chronic kidney disease (CKD) in patients on dialysis and not on dialysis.
  - Zidovudine in patients with HIV-infection.
  - The effects of concomitant myelosuppressive chemotherapy, and upon initiation, there is a minimum of two additional months of planned chemotherapy.
- Reduction of allogeneic red blood cell (RBC) transfusions in patients undergoing elective, noncardiac, nonvascular surgery.

Limitation(s) of use:

- Epogen, Procrit, and Retacrit have not been shown to improve quality of life, fatigue, or patient well-being.
- Epogen, Procrit, and Retacrit are not indicated for use:
  - In patients with cancer receiving hormonal agents, biologic products, or radiotherapy, unless also receiving concomitant myelosuppressive chemotherapy.
  - In patients with cancer receiving myelosuppressive chemotherapy when the anticipated outcome is cure.
  - In patients with cancer receiving myelosuppressive chemotherapy in whom the anemia can be managed by transfusion.
  - In patients scheduled for surgery who are willing to donate autologous blood.
  - In patients undergoing cardiac or vascular surgery.
  - 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 Centene Corporation<sup>®</sup> that Epogen, Procrit, and Retacrit are **medically necessary** when the following criteria are met:

**I. Initial Approval Criteria**

**A. Anemia due to Chronic Kidney Disease (must meet all):**

1. Diagnosis of anemia of CKD (dialysis and non-dialysis members);
2. Prescribed by or in consultation with a hematologist or nephrologist;
3. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ ;
4. Pretreatment hemoglobin level  $< 10$  g/dL;
5. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

6. If Procrit is requested, both of the following (a and b):\*

*\*For Illinois HIM requests, the step therapy requirements below do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

- a. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
- b. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member's renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**B. Anemia due to Zidovudine in HIV-infected Patients (must meet all):**

1. Diagnosis of zidovudine induced anemia;
2. Prescribed by or in consultation with a hematologist or HIV specialist;
3. Member is HIV-positive;
4. Dose of zidovudine is  $\leq 4,200$  mg/week;
5. Endogenous serum erythropoietin levels  $\leq 500$  mUnits/mL;
6. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ ;
7. Pretreatment hemoglobin level  $< 10$  g/dL;
8. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

9. If Procrit is requested, both of the following (a and b):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

- a. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
- b. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member’s renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**C. Anemia due to Chemotherapy in Patients with Cancer** (must meet all):

1. Request is for use in solid or non-myeloid malignancies;
2. Member is receiving myelosuppressive chemotherapy without curative intent;
3. Prescribed by or in consultation with a hematologist or oncologist;
4. Age  $\geq$  5 years;
5. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq$  100 mcg/L or serum transferrin saturation  $\geq$  20%;
6. Pretreatment hemoglobin  $<$  10 g/dL;

7. Member meets one of the following (a, b, c, or d):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

- a. Request is for Retacrit;
- b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
- c. If Procrit is requested, both of the following (i and ii):
  - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
- d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*).

**Approval duration:**

**Medicaid/HIM** – 6 months or until the completion of chemotherapy course (whichever is less) (*see Appendix D for dose rounding guidelines*)

**Commercial** – Until the completion of chemotherapy course, 6 months, or to member’s renewal date, whichever is longer (*see Appendix D for dose rounding guidelines*)

**D. Reduction of Allogeneic Red Blood Cell Transfusions in Patients Undergoing Elective, Noncardiac, Nonvascular Surgery** (must meet all):

1. Member is at high risk for perioperative blood loss from elective, noncardiac, nonvascular surgery;
2. Perioperative hemoglobin  $>$  10 to  $\leq$  13 g/dL;
3. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq$  100 mcg/L or serum transferrin saturation  $\geq$  20%;
4. Member is unwilling or unable to donate autologous blood pre-operatively;
5. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

6. If Procrit is requested, both of the following (a and b):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

- a. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - b. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
7. Dose does not exceed one of the following (a or b):
- a. 300 Units/kg administered daily for a total of 15 doses (*see Appendix D for dose rounding guidelines*);
  - b. 600 Units/kg for a total of 4 doses (*see Appendix D for dose rounding guidelines*).

**Approval duration: 15 days (for 300 Units/kg daily) OR 21 days (for 600 Units/kg in 4 doses)**

**E. Anemia Associated with Myelodysplastic Syndromes (off-label) (must meet all):**

1. Diagnosis of anemia from myelodysplastic syndrome (MDS);
2. Prescribed by or in consultation with a hematologist or oncologist;
3. Age  $\geq$  18 years;
4. One of the following (a or b):
  - a. Current (within the last 3 months) serum erythropoietin (EPO)  $\leq$  500 mU/mL;
  - b. Member has lower risk (IPSS low/intermediate-1) disease associated with symptomatic anemia with del(5q);
5. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq$  100 mcg/L or serum transferrin saturation  $\geq$  20%;
6. Pretreatment hemoglobin  $<$  10 g/dL;
7. Member meets one of the following (a, b, c, or d):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

- a. Request is for Retacrit;
- b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
- c. If Procrit is requested, both of the following (i and ii):
  - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
- d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*).

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member's renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**F. Myelofibrosis-Associated Anemia (off-label) (must meet all):**

1. Diagnosis of anemia associated with myelofibrosis;
2. Prescribed by or in consultation with a hematologist or oncologist;
3. Age  $\geq$  18 years;
4. Current (within the last 3 months) serum EPO  $<$  500 mU/mL;

5. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ ;
6. Pretreatment hemoglobin  $< 10$  g/dL;
7. Member meets one of the following (a, b, c, or d):\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
  - d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*).

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member’s renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**G. Other diagnoses/indications (must meet all):**

1. Member meets one of the following (a, b, c, or d):\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
  - d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*);
2. Must meet one of the following (a or b):
  - a. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (i or ii):
    - i. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
    - ii. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business:

CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or

- b. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

## II. Continued Therapy

### A. Anemia due to Chronic Kidney Disease (must meet all):

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy;
3. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
4. If Procrit is requested, both of the following (a and b):\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
  - a. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - b. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
5. Current hemoglobin  $\leq 12$  g/dL;
6. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ .

#### Approval Duration:

**Medicaid/HIM** – 12 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member's renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

### B. Anemia due to Zidovudine in HIV-infected Patients (must meet all):

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member continues to receive zidovudine therapy;

3. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
4. If Procrit is requested, both of the following (a and b):\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
  - a. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - b. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
5. Current hemoglobin level is  $\leq 12$  g/dL;
6. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ .

**Approval duration:**

**Medicaid/HIM** – 12 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member’s renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**C. Anemia due to Chemotherapy in Patients with Cancer (must meet all):**

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member meets one of the following (a, b, c, or d):\*  
*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*
  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
  - d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*);
3. Continuation of ESA therapy is concurrent with myelosuppressive chemotherapy;
4. If member has received  $\geq 8$  weeks of ESA therapy, member meets both of the following (a and b):
  - a. Documented response to therapy as evidenced by a rise in hemoglobin levels  $> 1$  g/dL;
  - b. No RBC transfusions are required;

5. Current hemoglobin < 10 g/dL;
6. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ .

**Approval duration:**

**Medicaid/HIM** – 6 months or until the completion of chemotherapy course (whichever is less) (*see Appendix D for dose rounding guidelines*)

**Commercial** – Until the completion of chemotherapy course, 6 months, or to member's renewal date, whichever is longer (*see Appendix D for dose rounding guidelines*)

**D. Reduction of Allogeneic Red Blood Cell Transfusions in Patients Undergoing Elective, Noncardiac, Nonvascular Surgery**

1. Re-authorization is not permitted. Members must meet the initial approval criteria.

**Approval duration: Not applicable**

**E. Anemia Associated with Myelodysplastic Syndrome (off-label) (must meet all):**

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member meets one of the following (a, b, c, or d):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
  - d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*);
3. If member has received  $\geq 8$  weeks of ESA therapy, member meets one of the following (a or b):
  - a. Documented response to therapy as evidenced by a rise in hemoglobin levels > 1.5 g/dL;
  - b. Decrease of RBC transfusions requirement;
4. Current hemoglobin  $\leq 12$  g/dL;
5. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ .

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member's renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**F. Myelofibrosis-Associated Anemia (off-label) (must meet all):**

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (*refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B*);
2. Member is responding positively to therapy (examples may include, but are not limited to: for transfusion-independent members with a baseline hemoglobin < 10 g/dL, a  $\geq 2$  g/dL increase in hemoglobin; or for previously transfusion-dependent members, transitioning to become transfusion-independent);
3. Member meets one of the following (a, b, c, or d):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.
  - d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*);
4. Current hemoglobin  $\leq 12$  g/dL;
5. Adequate iron stores as indicated by current (within the last 3 months) serum ferritin level  $\geq 100$  mcg/L or serum transferrin saturation  $\geq 20\%$ .

**Approval duration:**

**Medicaid/HIM** – 6 months (*see Appendix D for dose rounding guidelines*)

**Commercial** – 6 months or to member's renewal period, whichever is longer (*see Appendix D for dose rounding guidelines*)

**G. Other diagnoses/indications (must meet all):**

1. Member meets one of the following (a, b, c, or d):\*

*\*For Illinois HIM requests, the step therapy requirements above do not apply as of 1/1/2026 per IL HB 5395, unless biosimilar is interchangeable per [FDA Purple Book](#).*

  - a. Request is for Retacrit;
  - b. If Epogen is requested, member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
  - c. If Procrit is requested, both of the following (i and ii):
    - i. Member must use Retacrit, unless contraindicated, clinically significant adverse effects are experienced, or Retacrit is unavailable due to shortage;
    - ii. If member is unable to use Retacrit, member must use Epogen, unless contraindicated or clinically significant adverse effects are experienced.

- d. Request is for treatment associated with cancer for a State with regulations against step therapy in certain oncology settings (*see Appendix E*);
2. Member meets one of the following (a or b):
  - a. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (i or ii):
    - i. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.33 for health insurance marketplace, and CP.PMN.255 for Medicaid; or
    - ii. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial, HIM.PA.103 for health insurance marketplace, and CP.PMN.16 for Medicaid; or
  - b. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

### **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 – CP.CPA.09 for commercial, HIM.PA.154 for health insurance marketplace and CP.PMN.53 for Medicaid or evidence of coverage documents.

### **IV. Appendices/General Information**

#### *Appendix A: Abbreviation/Acronym Key*

CKD: chronic kidney disease

ESA: erythropoiesis-stimulating agent

FDA: Food and Drug Administration

HIV: human immunodeficiency virus

RBC: red blood cell

#### *Appendix B: Therapeutic Alternatives*

Not applicable

#### *Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s):
  - Uncontrolled hypertension
  - Pure red cell aplasia (PRCA) that begins after treatment with erythropoietin protein drugs
  - Serious allergic reactions
  - Use of the multiple-dose vials containing benzyl alcohol in neonates, infants, pregnant women, and lactating women
- Boxed warning(s): ESAs increase the risk of death, myocardial infarction, stroke, venous thromboembolism, thrombosis of vascular access and tumor progression or recurrence

*Appendix D: Dose Rounding Guidelines*

Weight-based Dose Range	Vial Quantity Recommendation
≤ 2,099.99 units	1 vial of 2,000 units
2,100 units-3,149.99 units	1 vial of 3,000 units
3,150 units-4,199.99 units	1 vial of 4,000 units
4,200 units-6,299.99 units	1 vial of 4,000 units and 1 vial of 2,000 units
6,300 units-7,349.99 units	1 vial of 4,000 units and 1 vial of 3,000 units
7,350 units-8,399.99 units	2 vials of 4,000 units
8,400 units-10,499 units	1 vial of 10,000 units
10,500 units-12,599.99 units	1 vial of 2,000 units and 1 vial of 10,000 units
12,600 units-13,649.99 units	1 vial of 3,000 units and 1 vial of 10,000 units
13,650 units-14,699.99 units	1 vial of 4,000 units and 1 vial of 10,000 units
14,700 units-16,799.99 units	1 vial of 2,000 units, 1 vial of 4,000 units and 1 vial of 10,000 units
16,800 units-17,849.99 units	1 vial of 3,000 units, 1 vial of 4,000 units and 1 vial of 10,000 units
17,849 units-18,899.99 units	2 vials of 4,000 units and 1 vial of 10,000 units
18,900 units-20,999 units	2 vials of 10,000 units

*Appendix E: States with Regulations against Redirections in Certain Oncology Settings*

State	Step Therapy Prohibited?	Notes
FL	Yes	For stage 4 metastatic cancer and associated conditions.
GA	Yes	For stage 4 metastatic cancer. Redirection does not refer to review of medical necessity or clinical appropriateness.
IA	Yes	For standard of care stage 4 cancer drug use, supported by peer-reviewed, evidence-based literature, and approved by FDA.
LA	Yes <sup>‡</sup>	For stage 4 advanced, metastatic cancer or associated conditions. <sup>‡</sup> Exception if clinically equivalent therapy, contains identical active ingredient(s), and proven to have same efficacy.
MS	Yes	<i>*Applies to HIM requests only*</i> For advanced metastatic cancer and associated conditions
NV	Yes	Stage 3 and stage 4 cancer patients for a prescription drug to treat the cancer or any symptom thereof of the covered person
OH	Yes	<i>*Applies to Commercial and HIM requests only*</i> For stage 4 metastatic cancer and associated conditions
OK	Yes	<i>*Applies to HIM requests only*</i> For advanced metastatic cancer and associated conditions
PA	Yes	For stage 4 advanced, metastatic cancer
TN	Yes <sup>^</sup>	For stage 4 advanced metastatic cancer, metastatic blood cancer, and associated conditions <sup>^</sup> Exception if step therapy is for AB-rated generic equivalent, interchangeable biological product, or biosimilar product to the equivalent brand drug
TX	Yes	For stage 4 advanced, metastatic cancer and associated conditions

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
Anemia due to CKD	Initial dose: 50 to 100 Units/kg 3 times weekly (adults) IV or SC and 50 Units/kg 3 times weekly (children on dialysis) IV or SC. Individualize maintenance dose. IV route recommended for patients on hemodialysis	Varies depending on indication and frequency of administration
Anemia due to zidovudine in HIV-infected patients	100 Units/kg IV or SC 3 times weekly	
Anemia due to chemotherapy	40,000 Units SC weekly <i>or</i> 150 Units/kg SC 3 times weekly (adults) until completion of a chemotherapy course; 600 Units/kg IV weekly (children ≥ 5 years) until completion of a chemotherapy course	
Reduction of allogeneic red blood cell transfusions in patients undergoing elective, noncardiac, nonvascular surgery	300 Units/kg per day SC daily for 15 days total: administered daily for 10 days before surgery, on the day of surgery, and for 4 days after surgery or 600 Units/kg SC weekly in 4 doses administered 21, 14, and 7 days before surgery and on the day of surgery	
Anemia associated with MDS <sup>†</sup>	40,000-60,000 units SC one to two times weekly	
Anemia associated with myelofibrosis <sup>†</sup>	In a clinical trial, patients initially received erythropoietin 10,000 units SC 3 days per week. Erythropoietin was increased to 20,000 units 3 days per week if a response was not obtained after 2 months and erythropoietin was discontinued in patients who did not experience a response at 3 months.	

<sup>†</sup> Off-label indication

**VI. Product Availability**

Drug Name	Availability
Epoetin alfa (Epoegen)	<ul style="list-style-type: none"> <li>Single-dose vial: 2,000 units/mL, 3,000 units/mL, 4,000 units/mL, and 10,000 units/mL</li> <li>Multiple-dose vial containing benzyl alcohol: 20,000 units/2 mL and 20,000 units/mL</li> </ul>
Epoetin alfa (Procrit)	<ul style="list-style-type: none"> <li>Single-dose vial: 2,000 units/mL, 3,000 units/mL, 4,000 units/mL, 10,000 units/mL, and 40,000 units/mL</li> <li>Multiple-dose vial containing benzyl alcohol: 20,000 units/2 mL and 20,000 units/mL</li> </ul>
Epoetin alfa-epbx (Retacrit)	<ul style="list-style-type: none"> <li>Single-dose vial: 2,000 units/mL, 3,000 units/mL, 4,000 units/mL, 10,000 units/mL, 40,000 units/mL</li> </ul>

Drug Name	Availability
	<ul style="list-style-type: none"> <li>Multiple-dose vial containing benzyl alcohol: 20,000 units/2 mL and 20,000 units/mL</li> </ul>

## VII. References

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## 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
Q4081	Injection, epoetin alfa, 100 units (for ESRD on dialysis)
J0885	Injection, epoetin alfa, (for non-ESRD use), 1000 units
Q5105	Injection, epoetin alfa-epbx, biosimilar, (Retacrit) (for ESRD on dialysis), 100 units
Q5106	Injection, epoetin alfa-epbx, biosimilar, (Retacrit) (for non-ESRD use), 1000 units

Reviews, Revisions, and Approvals	Date	P&T Approval Date
2Q 2021 annual review: for MDS and MF associated anemia added for continued therapy hemoglobin or transfusion response criteria per NCCN; applied redirection to Retacrit to other diagnoses/indications; revised reference to HIM off-label use policy from HIM.PHAR.21 to HIM.PA.154; references reviewed and updated.	02.23.21	05.21
Added Nevada to Appendix E.	08.03.21	
Per SDC and previously approved clinical guidance, added redirection to Epogen if Retacrit is unavailable due to shortage.	04.26.22	
2Q 2022 annual review: no significant changes; WCG.CP.PHAR.237 retired and redirection consolidated to prefer Retacrit; revised oncology redirection bypass language to indicate it applies more generally for a State with regulations against step therapy in certain oncology settings; references reviewed and updated.	04.27.22	05.22
Template changes applied to other diagnoses/indications and continued therapy section.	10.07.22	
2Q 2023 annual review: per NCCN for MDS continuation of therapy modified treatment response assessment to occur after at least 8 weeks of therapy (previously this was 12 weeks); per NCCN Compendium for MDS added approval pathway for lower risk (IPSS low/intermediate-1) disease associated with symptomatic anemia with del(5q); for cancer indications and other indications sections clarified redirection requirements to include an option for Retacrit requests where no redirection is required; for zidovudine induced anemia continuation of therapy added requirement to confirm member continues to receive zidovudine therapy; references reviewed and updated.	02.01.23	05.23
Updated Appendix E to include Oklahoma.	06.07.23	
2Q 2024 annual review: for anemia associated with myelofibrosis, added requirement that pretreatment hemoglobin < 10 g/dL for initial requests and current hemoglobin ≤ 12 g/dL for continuation requests; for anemia due to CKD, added requirement for continuation requests that current hemoglobin ≤ 12 g/dL; references reviewed and updated.	01.09.24	05.24
Updated Appendix E to include Mississippi.	06.05.24	
2Q 2025 annual review: extended continuation of therapy approval duration from 6 to 12 months for Medicaid/HIM for anemia due to	03.11.25	05.25

Reviews, Revisions, and Approvals	Date	P&T Approval Date
CKD and zidovudine in HIV-infected patients; references reviewed and updated. Per March SDC, for all indications, separated redirection criteria for Epogen and Procrit; revised Procrit redirection language to also require use of Epogen if member is unable to use Retacrit. Added step therapy bypass for IL HIM per IL HB 5395.		
Updated Appendix E with revised language and exception for Tennessee.	05.14.25	

**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.

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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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