

**Clinical Policy: Exagamglogene Autotemcel (Casgevy)**

Reference Number: GA.PMN.33

Effective Date: 1/25

Last Review Date: 2/2026

Line of Business: Medicaid

[Coding Implications](#)  
[Revision Log](#)

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

**Description**

Exagamglogene autotemcel (Casgevy™) is an autologous CD34+ hematopoietic stem and progenitor cell-based therapy.

**FDA Approved Indication(s)**

Casgevy is indicated for the treatment of patients aged 12 years and older with:

- Sickle cell disease (SCD) with recurrent vaso-occlusive crises (VOCs)
- Transfusion-dependent  $\beta$ -thalassemia (TDT)

**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.*

All requests reviewed under this policy **require medical director review**.

It is the policy of health plans affiliated with Centene Corporation® that Casgevy is **medically necessary** when the following criteria are met:

**I. Initial Approval Criteria****A. Sickle Cell Disease (must meet all):**

1. Diagnosis of SCD with genetic confirmation of one of the following genotypes (a, b or c):
  - a.  $\beta^S/\beta^S$  (HbSS);
  - b.  $\beta^S/\beta^0$  (HbS  $\beta^0$ );
  - c.  $\beta^S/\beta^+$  (HbS  $\beta^+$ );
2. Prescribed by or in consultation with a hematologist and/or transplant specialist;
3. Age  $\geq 12$  and  $\leq 35$  years\*;  
*\*Ages of eligibility are based on participants in pivotal clinical trials. Patients outside of this age range may still be eligible for approval pending review of individual patient case and published clinical literature by a medical professional.*
4. Documentation of  $\geq 2$  severe VOCs per year during the previous two years, with a severe VOC defined as one of the following (a, b, c, d, or e):
  - a. An acute pain event that requires a visit to a medical facility and administration of pain medications (e.g., opioids or intravenous non-steroidal anti-inflammatory drugs [NSAIDS]) or packed red blood cell (pRBC) transfusions;
  - b. Acute chest syndrome (ACS as evident by a new pulmonary infiltrate associated with pneumonia-like symptoms, pain, or fever);
  - c. Priapism lasting  $> 2$  hours and requiring a visit to a medical facility;

- d. Splenic sequestration as evident by an enlarged spleen, left upper quadrant pain and an acute decrease in hemoglobin concentration > 2g/dL;
5. Failure of hydroxyurea at up to the maximally indicated dose, unless contraindicated or clinically significant adverse effects are experienced\* (*see Appendix D*);  
*\*Myelosuppression and hydroxyurea treatment failure: Myelosuppression is dose-dependent and reversible and does not qualify for treatment failure. NHLBI guidelines recommend a 6-month trial on the maximum tolerated dose prior to considering discontinuation due to treatment failure, whether due to lack of adherence or failure to respond to therapy. A lack of increase in mean corpuscular volume (MCV) and/or fetal hemoglobin (HbF) levels is not indication to discontinue therapy.*
6. Attestation from prescriber that member is clinically stable and eligible to undergo myeloablative conditioning and HSCT;
7. Member is eligible for a HSCT but is unable to find a matched and willing sibling donor;
8. Member has not received prior allogeneic HSCT;
9. Member has not received prior gene therapy;
10. Member meets all of the following;
  - a. No evidence of hepatic impairment;
  - b. No evidence of renal impairment;
  - c. Documentation from within the last 6 months that the member is negative for the presence of the following active infections: HIV, hepatitis B virus, and hepatitis C virus;
11. Member does not have history of any significant bleeding disorder;
12. Dose contains a minimum of  $3 \times 10^6$  CD34<sup>+</sup> cells/kg.

**Approval duration: 6 months (one-time infusion per lifetime)**

**B. Transfusion-Dependent  $\beta$ -Thalassemia (must meet all):**

1. Diagnosis of TDT with genetic confirmation (*see Appendix F*);
2. Prescribed by or in consultation with a hematologist and/or transplant specialist;
3. Age  $\geq 12$  and  $\leq 35$  years\*;  
*\*Ages of eligibility are based on participants in pivotal clinical trials. Patients outside of this age range may still be eligible for approval pending review of individual patient case and published clinical literature by a medical professional.*
4. Documentation of one of the following (a or b):
  - a. Receipt of  $\geq 100$  mL/kg or 10 units of pRBC per year for the previous two years (*see Appendix D*);
  - b. Receipt of  $\geq 8$  transfusions of pRBC per year for the previous two years (*see Appendix D*);
5. Attestation from prescriber that member is clinically stable and eligible to undergo myeloablative conditioning and HSCT;
6. Member is eligible for a HSCT but is unable to find a matched and willing sibling donor;  
*\*Sickle cell  $\beta$ -thalassemia is a type of SCD and should be evaluated under the SCD criteria (I.A)*
7. Member has not received prior allogeneic HSCT;
8. Member has not received prior gene therapy;
9. Member meets all of the following;
  - a. No evidence of hepatic impairment;
  - b. No evidence of renal impairment;

- c. Documentation from within the last 6 months that the member is negative for the presence of the following active infections: HIV, hepatitis B virus, and hepatitis C virus;
10. Dose contains a minimum of  $3 \times 10^6$  CD34+ cells/kg.  
**Approval duration: 6 months (one-time infusion per lifetime)**

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

1. 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 (a or b):
  - a. 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
  - b. 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
2. 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. All Indications in Section I**

1. Continued therapy will not be authorized as Casgevy is indicated to be dosed one time only.

**Approval duration: Not applicable**

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

1. 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 (a or b):
  - a. 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
  - b. 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
2. 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*

ACS: acute chest syndrome	NHLBI: National Heart, Lung, and Blood Institute
ANC: absolute neutrophil count	pRBC: packed red blood cells
CBC: complete blood count	SCD: sickle cell disease
FDA: Food and Drug Administration	TDT: transfusion dependent $\beta$ -thalassemia
HbF: fetal hemoglobin	ULN: upper limit of normal
HIV: human immunodeficiency virus	VOC: vaso-occlusive crisis
HSCT: hematopoietic stem cell transplantation	WBC: white blood cells
MCV: mean corpuscular volume	

*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
SCD		
hydroxyurea <sup>†</sup>	<p><u>Age <math>\geq</math> 18 years</u> Initial: 15 mg/kg/dose PO QD, rounded to the nearest 500-mg increment*</p> <p><u>Age 9 months to 17 years</u> Initial: 20 mg/kg/dose PO QD*</p> <p>* Increase by 5 mg/kg/day every 8 weeks until mild myelosuppression (ANC 2,000 to 4,000/microliter) achieved.</p>	35 mg/kg/day
Droxia <sup>®</sup> (hydroxyurea)	<p><u>Age <math>\geq</math> 18 years</u> Initial: 15 mg/kg/day PO single dose; based on blood counts, may increase by 5 mg/kg/day every 12 weeks to a max 35 mg/kg/day</p>	35 mg/kg/day
Siklos <sup>®</sup> (hydroxyurea)	<p><u>Age <math>\geq</math> 18 years</u> Initial: 15 mg/kg PO QD*</p> <p><u>Age 2 years to 17 years</u> Initial: 20 mg/kg PO QD*</p>	35 mg/kg/day

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
SCD		
	*Based on blood counts, may increase by 5 mg/kg/day every 8 weeks or if a painful crisis occurs	

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

‡ Off-label, 2014 NHLBI SCD guideline-supported dosing regimen

*Appendix C: Contraindications/Boxed Warnings*

None reported

*Appendix D: General Information*

- Hydroxyurea dose titration for SCD: Members should obtain complete blood counts (CBC) with white blood cell (WBC) differential and reticulocyte counts at least every 4 weeks for titration. The following lab values indicate that it is safe to increase dose.
  - Absolute neutrophil count (ANC) in adults  $\geq 2,000/\mu\text{L}$ , or ANC  $\geq 1,250/\mu\text{L}$  in younger patients with lower baseline counts
  - Platelet count  $\geq 80,000/\mu\text{L}$
 If neutropenia or thrombocytopenia occurs: hydroxyurea dosing is held, CBC and WBC differential are monitored weekly, and members can restart hydroxyurea when values have recovered.
- Conversion of RBC units from mL: 1 RBC unit in these criteria refers to a quantity of pRBC approximately 200-350 mL.
  - For sites who use transfusion bags within this range, or  $\geq 350$  mL, the conversion in units should be done by dividing the volume transfused to the patient by 350 mL.
  - For 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.

*Appendix E: Advanced Liver Disease*

- Examples of advanced liver disease include, but are not limited to, the following:
  - Cirrhosis
  - Bridging or significant fibrosis
  - Active hepatitis
  - Persistent aspartate transaminase, alanine transaminase, or direct bilirubin value  $> 3x$  the upper limit of normal (ULN)
  - Baseline prothrombin time or partial thromboplastin time  $> 1.5x$  ULN

*Appendix F: Genetic Confirmation of  $\beta$ -Thalassemia*

$\beta$ -Thalassemia Genotype Examples
$\beta^0/\beta^0$
$\beta^+/\beta^+$
$\beta^0/\beta^+$
$\beta^0/\beta^+$ (IVS-I-110)
$\beta^E/\beta^+$
$\beta^E/\beta^0$

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
SCD, TDT	Minimum recommended dose: 3 x 10 <sup>6</sup> CD34 <sup>+</sup> cells/kg of body weight IV	Not applicable

**VI. Product Availability**

Single-dose cell suspension: up to nine vials, with each vial containing 4 to 13 × 10<sup>6</sup> CD34<sup>+</sup> cells/mL suspended in 1.5 to 20 mL cryopreservative medium

**VII. References**

1. Casgevy Prescribing Information. Boston, MA: Vertex Pharmaceuticals, Inc.; September 2025. Available at [www.casgevy.com](http://www.casgevy.com). Accessed October 23, 2025.
2. Frangoul H, Altshuler D, Cappellini MD, et al. CRISPR-CaS9 gene editing for sickle cell disease and β-thalassemia. *N Engl J Med* 2021; 384:252-60.
3. Frangoul H, Locatelli F, Sharma A, et al. Exagamglogene autotemcel for severe sickle cell disease. *N Engl J Med*. 2024;390(18):1649-1662.
4. Yawn BP, Buchanan GR, Afenyi-Annan AN, et al. Evidence-based management of sickle cell disease: Expert Panel Report, 2014. National Heart, Lung, and Blood Institute (NHLBI). Available at: <https://www.nhlbi.nih.gov/health-topics/evidence-based-management-sickle-cell-disease>. Accessed November 18, 2024.
5. Kanter J, Liem RI, Bernaudin F, et al. American Society of Hematology 2021 guidelines for sickle cell disease: stem cell transplantation. *Blood Adv*. 2021;5(18):3668-3689.
6. Clinical Pharmacology [database online]. Philadelphia, PA: Elsevier. Updated periodically. Available at: <http://www.clinicalkey.com/pharmacology>. Accessed November 24, 2025.
7. Locatelli F, Lang P, Wall D, et al. Exagamglogene Autotemcel for Transfusion-Dependent βThalassemia. *N Engl J Med*. 2024;390(18):1663-1676.
8. Taher AT, Farmakis D, Porter JB, et al. Guidelines for the management of transfusiondependent β-thalassaemia (TDT) 5th ed. Thalassaemia International Federation (2025). Available at: <https://thalassaemia.org.cy/publications/tif-publications/guidelines-for-the-management-of-transfusion-dependent-%ce%b2-thalassaemia-5th-edition-2025/>. Accessed November 25, 2025.

**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
J3392	Injection, exagamglogene autotemcel, per treatment

Reviews, Revisions, and Approvals	Date	P&T Approval Date
New policy created, split from CP.PHAR.603 Exagamglogene Autotemcel (Casgevy) to align with Department of Community Health (DCH) Casgevy criteria as requested. SCD: Added $\beta^S/\beta^+$ an approval genotype. Added descriptive criteria for ACS and splenic sequestration. Added “no significant bleeding risk”. SCD/TDT: Changed age to $\geq 12$ and $\leq 35$ . Changed specialist criteria to hematologist “and/or” transplant specialist. Changed transplant specialist attestation to just “Member is clinically stable and eligible to undergo myeloablative conditioning and HSCT”. Added “Member is eligible for a HSCT but is unable to find a matched and willing sibling donor “. Changed “does not have advanced liver disease” to “does not have liver impairment”. Removed “does not have malignancy”. Added “does not have renal impairment”.	01/25	01/25
4Q 2025 annual review. No changes made.	12/2025	12/2025
Added genotype descriptors of HbSS, HbS $\beta^0$ , and HbS $\beta^+$ ; removed requirement for documentation of body weight; references reviewed and updated.	2/2026	2/2026

**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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