

Clinical Policy: Fidanacogene Elaparvovec-dzkt (Beqvez)

Reference Number: CP.PHAR.643

Effective Date: 04.25.24 Last Review Date: 11.24

Line of Business: Commercial, HIM, Medicaid

Coding Implications
Revision Log

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

Description

Fidanacogene elaparvovec-dzkt (Beqvez $^{\text{\tiny TM}}$) is an adeno-associated virus (AAV) vector-based gene therapy.

FDA Approved Indication(s)

Bequez is indicated for the treatment of adults with moderate to severe hemophilia B (congenital factor IX deficiency) who:

- Currently use factor IX prophylaxis therapy, or
- Have current or historical life-threatening hemorrhage, or
- Have repeated, serious spontaneous bleeding episodes, and
- Do not have neutralizing antibodies to AAV serotype Rh74var (AAVRh74var) capsid as detected by an FDA-approved test.

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 Bequez is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Congenital Hemophilia B (must meet all):

- 1. Diagnosis of congenital hemophilia B (factor IX deficiency);
- 2. Prescribed by or in consultation with a hematologist;
- 3. Age \geq 18 years;
- 4. Member has severe or moderately severe hemophilia (defined as a factor IX level of ≤ 2%);
- 5. Member meets one of the following (a, b, or c):
 - a. Adherence to current use of a factor IX product* (e.g., Alprolix®, Benefix®, Idelvion®, Ixinity®, Rebinyn®, Rixubis®) for routine prophylaxis as assessed and documented by prescriber;
 - b. Have current or historical life-threatening hemorrhage;
 - c. Have repeated, serious spontaneous bleeding episodes (see Appendix D);

^{*}Prior authorization may be required



- 6. Member has been treated with factor IX product for a minimum of 50 exposure days (see Appendix D);
- 7. Member meets both of the following (a and b):
 - a. No previous documented history of a detectable factor IX inhibitor;
 - b. Documentation of inhibitor level assay < 0.6 Bethesda units (BU) within the last 12 months;
- 8. Member meets one of the following (a or b):
 - a. Documentation of negative test for HIV-1 and HIV-2 infection;
 - b. If member has positive evidence of HIV-1 or HIV-2 infection: documentation of CD4⁺ cell count ≥ 200 mm³ or viral load < 20 copies/mL;
- 9. Member has had all of the following baseline liver assessments within the last 3 months (a e):
 - a. Documentation of liver function tests within normal limits (i.e., alanine aminotransferase [ALT], aspartate aminotransferase [AST], alkaline phosphatase [ALP], bilirubin, and albumin);
 - b. Documentation of normal hepatic ultrasound and/or elastography;
 - c. Documentation of negative laboratory tests for active hepatitis B and hepatitis C;
 - d. At the time of request, member does not have current liver-related coagulopathy, hypoalbuminemia, persistent jaundice, cirrhosis, portal hypertension, splenomegaly, hepatic encephalopathy, hepatic fibrosis, or active viral hepatitis;
 - e. If member has evidence of radiological liver abnormalities and/or sustained liver enzymes elevations, attestation from hepatologist that member is eligible for Beqvez;
- 10. Member has not received prior gene therapy;
- 11. Member has documentation of negative test for neutralizing antibodies to AAVRh74var;
- 12. Documentation of member's body weight in kg;
- 13. Dose does not exceed 5 x 10¹¹ vector genomes (vg) per kg;

Approval duration: 3 months (1 dose only)

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.

II. Continued Therapy

A. Congenital Hemophilia B

1. Continued therapy will not be authorized as Beqvez 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

AAV: adeno-associated virus BU: Bethesda units ALP: alkaline phosphatase ED: exposure day

ALT: alanine aminotransferase FDA: Food and Drug Administration

AST: aspartate aminotransferase vg: vector genomes

BMI: body mass index

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		
Factor IX recombinant products for routine prophylaxis				
Alprolix	50 IU/dL/kg IV once weekly or 100 IU/dL/kg IV once every 10 days	100 IU/dL/kg/dose		
Benefix	100 IU/kg IV once weekly	100 IU/kg/dose		
Idelvion	25-40 IU/kg IV every 7 days followed by 50-75 IU/kg IV every 14 days once well-controlled	40 IU/kg/week		
Ixinity	40 to 70 IU/kg IV twice weekly	140 IU/kg/week		
Rebinyn	40 IU/kg IV once weekly	40 IU/kg/week		
Rixubis	40-60 IU/kg IV twice weekly	60 IU/kg/dose		

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.

Appendix C: Contraindications/Boxed Warnings None reported

Appendix D: General Information

- Serious bleeding episodes include bleeds in the following sites: intracranial; neck/throat; gastrointestinal; joints (hemarthrosis); muscles (especially deep compartments such as the iliopsoas, calf, forearm), or mucous membranes of the mouth, nose, and genitourinary tract.
- Spontaneous bleed is defined as a bleeding episode that occurs without apparent cause and is not the result of trauma.
- Exposure day (ED): An ED is a day on which a person with hemophilia has been infused with factor concentrate to treat or prevent a bleed. The number of EDs consists only of those days on which factor was infused.
- Information on FDA-approved tests for the detection of AAVRh74var pre-existing neutralizing antibodies is available at http://www.fda.gov/companiondiagnostics.

Appendix E: Dose Calculation Guideline

• The dose weight of Bequez is based on the member's body mass index (BMI) in kg/m².

BMI	Dose Weight (kg)	Dose Volume (mL)
\leq 30 kg/m ³	Actual body weight (kg)	Dose volume (mL) = $\underline{\text{Dose weight (kg)}}$
$> 30 \text{ kg/m}^3$	$30 \text{ kg/m}^2 \text{ x [height (m)]}^2$	20

• Bequez is provided as a customized kit containing the number of vials required to meet dosing requirement for each member. The total number of vials per kit ranges from 4 to 7 vials based on the member's dose weight.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Hemophilia B	Recommended dose: 5 x 10 ¹¹ vg/kg of	$5 \times 10^{11} \text{ vg/kg}$
	body weight by IV infusion	



VI. Product Availability

Single-dose cell suspension: 4 to 7 single-use vials with a nominal concentration of 1 x 10^{13} vg/mL

VII. References

- 1. Beqvez Prescribing Information. New York, NY: Pfizer Inc; April 2024. Available at: https://www.fda.gov/media/178140/download?attachment. Accessed April 30, 2024.
- 2. ClinicalTrials.gov. A study to evaluate the efficacy and safety of factor IX gene therapy with PF-06838435 in adult males with moderately severe to severe hemophilia B (BENEGENE-2). Available at: https://clinicaltrials.gov/study/NCT03861273. Accessed April 30, 2024.
- 3. Srivastava A, Santagostino E, Dougall A, et al. WFH guidelines for the management of hemophilia, 3rd edition. Haemophilia. 2020 Aug;26 Suppl 6:1-158.
- 4. Carcao M and Goudemand J. Inhibitors in hemophilia: A primer, 5th edition. World Federation of Hemophilia. Available at: https://www1.wfh.org/publication/files/pdf-1122.pdf.
- 5. Medical and Scientific Advisory Council (MASAC) of the National Bleeding Disorders Foundation (formerly National Hemophilia Foundation): Database of treatment guidelines. Available at: https://www.hemophilia.org/healthcare-professionals/guidelines-on-care/masacdocuments. Accessed April 30, 2024.

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	Description
Codes	
J3590	Unclassified biologics
C9399	Unclassified drugs or biologicals
C9172	Injection, fidanacogene elaparvovec-dzkt, per therapeutic dose

Reviews, Revisions, and Approvals	Date	P&T
		Approval Date
Policy created pre-emptively	08.29.23	11.23
RT1: Drug is now FDA approved – criteria updated per FDA	06.04.24	08.24
labeling: clarified documentation of negative test for neutralizing		
antibodies to AAVRh74var; added medical director review;		
removed criterion for subsequent negative factor IX inhibitor test if		
member has an initial positive test result per PI; added criteria for		
documentation of HIV test with minimum CD4 ⁺ cell count or		
maximum viral load for positive HIV test per PI; added criterion		
that member does not have current liver-related conditions per PI;		
added criterion for hepatologist attestation of Beqvez eligibility if		
sustained liver enzymes or radiological liver abnormalities present		
per PI; added criterion for documentation of member's body weight		



Reviews, Revisions, and Approvals	Date	P&T Approval Date
to allow verification of weight based dose; added information in		
Appendix E on dose calculation for weight based doses; references reviewed and updated.		
Revised baseline severity and treatment history criteria from	07.22.24	11.24
required use of a factor IX product for ≥ 6 months with ≥ 1 serious	07.22.21	11.2
spontaneous bleed to current use of a factor IX product with		
timeframe removal, added option of current or historical life-		
threatening hemorrhage, and modified option of repeated, serious		
spontaneous bleeding episodes to align with FDA labeling and		
Hemgenix criteria; updated HCPCS code.		

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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