

UTILIZATION MANAGEMENT MEDICAL POLICY

POLICY: Hemophilia – Factor IX Products Utilization Management Medical Policy Extended Half-Life Recombinant Products

- Alprolix[®] (Coagulation Factor IX [recombinant] Fc fusion protein intravenous infusion – Bioverativ/Sanofi)
- Idelvion[®] (Coagulation Factor IX [recombinant] albumin fusion protein intravenous infusion CSL Behring)
- Rebinyn[®] (Coagulation Factor IX [recombinant] glycoPEGylated intravenous infusion – NovoNordisk)

Standard Half-Life Recombinant Products

- BeneFIX[®] (Coagulation Factor IX [recombinant] intravenous infusion Wyeth/Pfizer)
- Ixinity[®] (Coagulation Factor IX [recombinant] intravenous infusion Medexus)
- Rixubis[®] (Coagulation Factor IX [recombinant] intravenous infusion Baxalta/Takeda)

Plasma-Derived Standard Half-Life Products

- AlphaNine[®] SD (Coagulation Factor IX [plasma-derived] intravenous infusion Grifols)
- Profilnine[®] (Factor IX Complex [plasma-derived] intravenous infusion Grifols)

REVIEW DATE: 02/19/2025

OVERVIEW

Alprolix, Idelvion, and Rebinyn are extended half-life recombinant Factor IX products; BeneFIX, Ixinity, and Rixubis are standard half-life recombinant Factor IX products; and AlphaNine SD and Profilnine are plasma-derived Factor IX products.¹⁻⁸ All agents are indicated in various clinical scenarios for use in the management of patients with hemophilia B.

Profilnine is also used in patients with Factor II and/or X deficiency.⁹ Some data are available, albeit limited.

Disease Overview

Hemophilia B is a recessive X-linked bleeding disorder caused by mutations in the factor IX gene that leads to the deficiency or absence of the coagulation factor IX.¹⁰⁻¹² It occurs in 1 out of 30,000 male births and affects about 5,000 people in the US. Hemophilia B predominantly occurs in males; however, approximately 10% of females are carriers and are at risk of usually mild bleeding. The severity of bleeding depends on the degree of the factor IX defect and the phenotypic expression. Factor levels of < 1%, 1% to 5%, and > 5% to < 40% are categorized as severe, moderate, and mild hemophilia B, respectively. Patients with mild hemophilia B may only experience abnormal bleeding during surgery, during tooth extractions, or when injured. Patients with moderate hemophilia B generally have prolonged bleeding responses to minor trauma. Severe hemophilia B is marked by spontaneous bleeding such as spontaneous hemarthrosis, soft-tissue hematomas, retroperitoneal bleeding, intracerebral hemorrhage, and delayed bleeding postsurgery. Complications from recurrent bleeding and soft-tissue hematomas include severe arthropathy and joint contractures, which may lead to pain and disability. The main treatment of hemophilia B is replacement of missing blood coagulation factor with Factor IX products. Factor IX replacement therapy may be used on-demand when bleeding occurs or given as routine prophylaxis with scheduled infusions. Both plasma-derived and recombinant Factor IX products are available. In general, prophylactic therapy has been associated with a reduction in bleeds and improved outcomes for selected patients (e.g., patients

Hemophilia – Factor IX Products UM Medical Policy Page 2

with moderate or severe factor IX deficiency). The goal of therapy is to prevent uncontrolled internal hemorrhage and severe joint damage, and to properly manage bleeding episodes. The development of inhibitors occurs at a lower frequency in patients with severe hemophilia B compared with severe hemophilia A but can occur in up to 5% of patients. Higher doses than that typically used for the uses of standard half-life products can be given if the patient develops an inhibitor.

Guidelines

Guidelines for hemophilia from the National Bleeding Disorders Foundation (2024)¹³ and the International Society on Thrombosis and Haemostasis (2024)¹⁴ recognize the important role of Factor IX products in the management of hemophilia B patients.

POLICY STATEMENT

Prior Authorization is recommended for medical benefit coverage of the following Factor IX products: Alprolix, Idelvion, Rebinyn, BeneFIX, Ixinity, Rixubis, AlphaNine, and Profilnine. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the criteria and dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with recombinant Factor IX products, as well as the monitoring required for adverse events and long-term efficacy, the agent is required to be prescribed by or in consultation with a physician who specializes in the condition being treated.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of the following Factor IX products is recommended for patients who meet criteria: <u>Alprolix</u>, <u>Idelvion</u>, <u>Rebinyn</u>, <u>BeneFIX</u>, <u>Ixinity</u>, <u>Rixubis</u>, <u>AlphaNine</u>, and <u>Profilnine</u>.

I. Coverage of <u>Alprolix, Idelvion, Rebinyn, BeneFIX, Ixinity, and Rixubis</u> is recommended for patients who meet the following criteria:

FDA-Approved Indication

1. Hemophilia B. Approve the requested agent for 1 year if the agent is prescribed by or in consultation with a hemophilia specialist.

Dosing. Approve ONE of the following dosing regimens (A <u>or</u> B):

- A) For <u>Alprolix, Idelvion, and Rebinyn</u> approve the following dosing regimens (i, ii, <u>and/or</u> iii):
 - **i.** <u>Routine prophylaxis</u>: approve up to 100 IU per kg intravenously at an interval no more frequently than once weekly; AND/OR;
 - **ii.** <u>On-demand treatment and control of bleeding episodes</u>: approve up to 100 IU per kg intravenously no more frequently than once every 6 hours for up to 10 days per episode; AND/OR
 - **iii.** <u>Perioperative management</u>: approve up to 100 IU per kg intravenously no more frequently than once every 24 hours for up to 10 days per procedure; OR
- **B**) For <u>BeneFIX</u>, <u>Ixinity</u>, <u>and Rixubis</u> approve the following dosing regimens (i, ii, iii, <u>and/or</u> iv):
 - i. <u>Routine prophylaxis</u>: approve up to 100 IU per kg intravenously no more frequently than twice weekly; AND/OR

Hemophilia – Factor IX Products UM Medical Policy Page 3

- **ii.** <u>On-demand treatment and control of bleeding episodes</u>: approve up to 100 IU per kg intravenously no more frequently than once every 12 hours for up to 10 days per episode; AND/OR
- **iii.** <u>Perioperative management</u>: approve up to 100 IU per kg intravenously no more frequently than once every 8 hours for up to 10 days per procedure; AND/OR
- **iv.** <u>Immune tolerance therapy (also known as immune tolerance induction)</u>: approve up to 200 IU per kg intravenously no more frequently than once daily.
- **II.** Coverage of <u>AlphaNine SD and Profilnine</u> is recommended for patients who meet the following criteria:

FDA-Approved Indication

1. Hemophilia B. Approve <u>AlphaNine SD and Profilnine</u> for 1 year if the agent is prescribed by or in consultation with a hemophilia specialist.

Dosing. Approve the following dosing regimens:

- A) <u>Routine prophylaxis</u>: approve up to 50 IU per kg intravenously no more frequently than twice weekly; AND/OR
- **B**) <u>On-demand treatment of and control of bleeding episodes and perioperative management</u>: approve up to 100 IU per kg intravenously no more frequently than twice daily for up to 10 days; AND/OR
- C) <u>Immune tolerance therapy (also known as immune tolerance induction)</u>: approve up to 200 IU per kg intravenously no more frequently than once daily.

III. Coverage of <u>Profilnine</u> is also recommended for patients who meet the following criteria:

Other Uses with Supportive Evidence

1. Factor II Deficiency. Approve <u>Profilnine</u> for 1 year if the agent is prescribed by or in consultation with a hemophilia specialist.

Dosing. Limited dosing is available. Recommended dosing in hemophilia B (an FDA-approved use) is cited below.

- A) <u>Routine prophylaxis</u>: approve up to 50 IU per kg intravenously no more frequently than twice weekly; AND/OR
- **B**) <u>On-demand treatment of and control of bleeding episodes and perioperative management</u>: approve up to 100 IU per kg intravenously no more frequently than twice daily for up to 10 days.
- 2. Factor X Deficiency. Approve <u>Profilnine</u> for 1 year if the agent is prescribed by or in consultation with a hemophilia specialist.

Dosing. Limited dosing is available. Recommended dosing in hemophilia B (an FDA-approved use) is cited below.

- A) <u>Routine prophylaxis</u>: approve up to 50 IU per kg intravenously no more frequently than twice weekly; AND/OR
- **B)** <u>On-demand treatment of and control of bleeding episodes and perioperative management</u>: approve up to 100 IU per kg intravenously no more frequently than twice daily for up to 10 days.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of the cited Factor IX products are not recommended in the following situations:

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

REFERENCES

- 1. Alprolix[®] intravenous infusion [prescribing information]. Waltham, MA: Bioverativ/Sanofi; May 2023.
- 2. Idelvion® intravenous infusion [prescribing information]. Kankakee, IL: CSL Behring; June 2023.
- 3. Rebinyn[®] intravenous infusion [prescribing information]. Plainsboro, NJ: Novo Nordisk; August 2022.
- 4. BeneFIX® intravenous infusion [prescribing information]. Philadelphia, PA: Wyeth/Pfizer; November 2022.
- 5. Ixinity[®] intravenous infusion [prescribing information]. Chicago, IL: Medexus; March 2024.
- 6. Rixubis[®] intravenous infusion [prescribing information]. Lexington, MA: Baxalta/Takeda; March 2023.
- 7. AlphaNine® SD intravenous infusion [prescribing information]. Los Angeles, CA: Grifols; November 2022.
- 8. Profilnine[®] intravenous infusion [prescribing information]. Los Angeles, CA: Grifols; November 2022.
- 9. Menegatti M, Peyvandi F. Treatment of rare factor deficiencies other than hemophilia. Blood. 2019;133(5):415-424.
- 10. Sidonio RF, Malec L. Hemophilia B (Factor IX Deficiency). Hematol Oncol Clin North Am. 2021;35(6):1143-1155.
- 11. Mancuso ME, Mahlangu JN, Pipe SW. The changing treatment landscape in haemophilia: from standard half-life clotting factor concentrates to gene editing. *Lancet*. 2021;397:630-640.
- 12. Croteau SE. Hemophilia A/B. Hematol Oncol Clin N Am. 2022;36:797-812.
- National Bleeding Disorders Foundation. Medical and Scientific Advisory Council (MASAC) recommendations concerning products licensed for the treatment of hemophilia selected disorders of the coagulation system (endorsed on October 2, 2024). MASAC document #290. Available at: <u>https://www.hemophilia.org/sites/default/files/document/files/MASAC-Products-Licensed.pdf</u>. Accessed on February 19, 2025.
- 14. Rezende SM, Neumann I, Angchairsuksiri P, et al. International Society on Thrombosis and Haemostasis clinical practice guideline for the treatment of congenital hemophilia A and B based on the Grading of Recommendations Assessment, Development, and Evaluation methodology. *J Thromb Haemost.* 2024;22:2629-2652.

H	ISTORY	

Type of Revision	Summary of Changes	Review Date
Annual Revision	No criteria changes.	03/22/2023
Annual Revision	Mononine was removed from the policy as it is obsolete.	02/28/2024
Annual Revision	No criteria changes.	02/19/2025