

Hemophilia Products – Factor VIII: Advate, Adynovate, Afstyla, Eloctate, Hemofil M, Koate DVI, Kogenate FS, Kovaltry, Monoclate-P, Novoeight, Nuwiq, Obizur, Recombinate, Xyntha, and Jivi

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I. Length of Authorization

- Initial and renewal authorization periods vary by specific covered indication
- Unless otherwise specified, the initial authorization will be provided for 3 months and may be renewed.

The cumulative amount of medication(s) the patient has on-hand will be taken into account when authorizing. The authorization will allow up to 5 doses on-hand for the treatment of acute bleeding episodes as needed for the duration of the authorization.

II. Dosing Limit

A. Quantity Limit (max daily dose) [Pharmacy Benefit]:

N/A

B. Max Units (per dose and over time) [Medical Benefit]:

Advate: 73,600 billable units per 28 day supply
Adynovate: 36,800 billable units per 28 day supply
Afstyla: 69,000 billable units per 28 day supply
Eloctate: 40,250 billable units per 30 day supply
Helixate: 43,125 billable units per 30 day supply
Kogenate: 43,125 billable units per 30 day supply
Kovaltry: 86,250 billable units per 30 day supply
Novoeight: 82,800 billable units per 28 day supply
Nuwiq: 86,250 billable units per 30 day supply
Hemofil M: 55,200 billable units per 28 day supply
Koate DVI: 55,200 billable units per 28 day supply
Monoclate-P: 55,200 billable units per 28 day supply
Recombine: 55,200 billable units per 28 day supply

Xyntha: 48,300 billable units per 28 day supply
 Obizur: 115,000 billable units per 90 day supply
 Jivi: 41,400 billable units per 30 day supply

III. Initial Approval Criteria

Hemophilia Management Program
Requirements for half-life study and inhibitor tests are a part of the hemophilia management program. This information is not meant to replace clinical decision making when initiating or modifying medication therapy and should only be used as a guide.

- A. Advate, Eloctate, Hemofil M, Koate, Koate-DVI, Kogenate FS, Monoclate-P, Novoeight, Recombinate, Xyntha, NUWIQ, Adynovate, Kovaltry, Afstyla, **and** Jivi

Coverage is provided in the following conditions:

Hemophilia A (congenital factor VIII deficiency) †

- Diagnosis of congenital factor VIII deficiency has been confirmed by blood coagulation testing; **AND**
 - If the request is for Jivi, patient must be 12 years of age and older; **AND**
 - Used as treatment in at least one of the following:
 - Control and prevention of acute bleeding episodes (episodic treatment of acute hemorrhage); **OR**
 - Perioperative management; **OR**
 - Authorization is valid for 1 month
 - Used for routine prophylaxis: **AND**
 - Used to prevent or reduce the frequency of bleeding episodes; **OR**
 - Used to prevent or reduce the frequency of bleeding episodes and reduce the risk of joint damage in children without pre-existing joint damage (*Kogenate-FS ONLY*)
- AND -**
- Patient must have severe hemophilia A (factor VIII level of <1%); **OR**
 - Patient has at least two documented episodes of spontaneous bleeding into joints.

Hemophilia Management Program

- If the request is for routine prophylaxis and the requested dose exceeds dosing limits under part II or if member BMI \geq 30, a half-life study should be performed to determine the appropriate dose and dosing interval.
- If the request is for Eloctate, Adynovate, or Jivi, the following criteria should be met:
 - Patient is not a suitable candidate for a standard non- EHL factor VIII product.
 - A half-life study must be scheduled to determine the appropriate dose and dosing interval of the EHL product when initiated.
 - Prior to switching to Eloctate, Adynovate, or Jivi, a half-life study should also be performed on current non- EHL factor VIII product to ensure that a clinical benefit will be achieved.
 - If the request exceeds any of the following dosing limits, documentation must be submitted specifying why the member is not a suitable candidate for Hemlibra and alternative EHL factor VIII products.
 - 50 IU/kg every 4 days (total weekly dose of 87.5 IU/kg) for Eloctate
 - 40 IU/kg twice weekly (total weekly dose of 80 IU/kg) for Adynovate
 - 60 IU/kg every 5 days (total weekly dose of 84 IU/kg) for Jivi
- For minimally treated patients (< 50 exposure days to factor products) previously receiving a different factor product, inhibitor testing is required at baseline, then at every comprehensive care visit (yearly for the mild and moderate patients, semi-annually for the severe patients)

B. Obizur

Acquired Hemophilia A (acquired factor VIII deficiency) †

- Diagnosis of acquired factor VIII deficiency has been confirmed by blood coagulation testing; **AND**
- Used as treatment of bleeding episodes; **AND**
- Is NOT being used for congenital Hemophilia A OR von Willebrand disease

Hemophilia Management Program

- For members with a BMI \geq 30, a half-life study should be performed to determine the appropriate dose and dosing interval.
- For minimally treated patients (< 50 exposure days to factor products) previously receiving a different factor product, inhibitor testing is required at baseline, then at every comprehensive care visit (yearly for the mild and moderate patients, semi-annually for the severe patients)

† FDA Approved Indication(s)

IV. Dispensing Requirements for Rendering Providers (Hemophilia Management Program)

- Prescriptions cannot be filled without an expressed need from the patient, caregiver or prescribing practitioner. Auto-filling is not allowed.
- Monthly, rendering provider must submit for authorization of dispensing quantity before delivering factor product. Information submitted must include:
 - Original prescription information, requested amount to be dispensed, vial sizes available to be ordered from the manufacturer, and patient clinical history (including patient product inventory and bleed history)
 - Factor dose should not exceed +1% of the prescribed dose and a maximum of three vials may be dispensed per dose. If unable to provide factor dosing within the required threshold, below the required threshold, the lowest possible dose able to be achieved above +1% should be dispensed. Prescribed dose should not be increased to meet assay management requirements.
- The cumulative amount of medication(s) the patient has on-hand should be taken into account when dispensing factor product. Patients should not have more than 5 extra doses on-hand for the treatment of acute bleeding episodes.
- Dispensing requirements for renderings providers are a part of the hemophilia management program. This information is not meant to replace clinical decision making when initiating or modifying medication therapy and should only be used as a guide.

V. Renewal Criteria

Coverage can be renewed based upon the following criteria:

- Patient continues to meet criteria identified in section III; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include the following: symptoms of allergic-anaphylactic reactions (anaphylaxis, dyspnea, rash); thromboembolic events (thromboembolism, pulmonary embolism); and development of neutralizing antibodies (inhibitors); **AND**
- Any increases in dose must be supported by an acceptable clinical rationale (i.e. weight gain, half-life study results, increase in breakthrough bleeding when patient is fully adherent to therapy, etc.).
- The cumulative amount of medication(s) the patient has on-hand will be taken into account when authorizing. The authorization will allow up to 5 doses on-hand for the treatment of acute bleeding episodes as needed for the duration of the authorization.
- Patient meets the disease specific criteria below:

Treatment of acute bleeding episodes/Treatment of Spontaneous and trauma-induced bleeding episodes/On-demand treatment of bleeding episodes

- Renewals will be approved for a 3 month authorization period

Prevention of acute bleeding episodes/Routine prophylaxis to prevent or reduce the frequency of bleeding episode

- Renewals will be approved for a 6 month authorization period

VI. Dosage/Administration

Advate

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u> Circulating Factor VIII required (% of normal) (20-40%) = 10-20 IU/ kg -Repeat every 12-24 hours as needed (every 8 to 24 hours for patients under age of 6). Continue until the bleeding episode is resolved (as indicated by relief of pain) or healing is achieved (approximately 1 to 3 days).</p> <p><u>Moderate</u> Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg - Repeat every 12-24 hours as needed (every 8 to 24 hours for patients under age of 6). Continue until the bleeding episode is resolved (as indicated by relief of pain) or healing is achieved (approximately 3 days or more).</p> <p><u>Major</u> Circulating Factor VIII required (% of normal) (60-100%) = 30-50 IU/ kg - Repeat every 8-24 hours as needed (every 6 to 12 hours for patients under age of 6). Continue until the bleeding episode is resolved.</p>
Routine Prophylaxis Congenital Hemophilia A	For prophylaxis regimen to prevent or reduce frequency of bleeding episodes, dose between 20 to 40 IU per kg every other day (3 to 4 times weekly). Alternatively, an every third day dosing regimen targeted to maintain FVIII trough levels \geq 1% may be employed.
Perioperative management Congenital Hemophilia A	<p><u>Minor</u> Circulating Factor VIII required (% of normal) (60-100%) = 30-50 IU/ kg –Single dose within one hour of the operation. Repeat after 12- 24 hours for optional additional dosing as needed to control bleeding.</p> <p><u>Major</u> Circulating Factor VIII required (% of normal) (80-120%) = Preoperative: 40-60 IU/ kg to achieve 100% activity. Followed by a repeat dose every 8-24 hours (every 6 to 24 hours for patients under age of 6). Duration of therapy depends on the desired level of FVIII</p>

Adynovate

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU) = Body Weight (kg) x Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u> Target Factor VIII level (IU/dL or % of normal) (20-40%) = 10-20 IU/kg -Repeat every 12-24 hours until the bleeding episode is resolved</p>

Indication	Dose
	<p><u>Moderate</u></p> <p>Target Factor VIII level (IU/dL or % of normal) (30-60%) = 15-30 IU/kg - Repeat every 12-24 hours until the bleeding episode is resolved</p> <p><u>Major</u></p> <p>Target Factor VIII level (IU/dL or % of normal) (60-100%) = 30-50 IU/kg - Repeat every 8-24 hours until the bleeding episode is resolved.</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Target Factor VIII required (% of normal) (60-100%) = 30-50 IU/ kg –Single dose within one hour of the operation. Repeat after 24 hours, if necessary, single dose or repeat as needed until bleeding is resolved.</p> <p><u>Major</u></p> <p>Target Factor VIII required (% of normal) (80-120%) (pre- and post- operative) = 40-60 IU/ kg within 1 hour of the operation to achieve 100% activity. Repeat dose every 8-24 hours (every 6 to 24 hours for patients under age of 12). Duration of therapy until adequate wound healing.</p>
Routine Prophylaxis Congenital Hemophilia A	Administer 40-50 IU per kg body weight 2 times per week in children and adults (12 years and older). Administer 55 IU per kg body weight 2 times per week in children (<12 years) with a maximum of 70 IU per kg. Adjust the dose based on the patient's clinical response.

Afstyla

Indication	Dose
Treatment and control of bleeding Congenital Hemophilia A	<p>Dose (IU) = Body Weight (kg) x Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u></p> <p>Target Factor VIII level (IU/dL or % of normal) 20-40% -Repeat every 12-24 hours until the bleeding episode is resolved</p> <p><u>Moderate</u></p> <p>Target Factor VIII level (IU/dL or % of normal) 30-60%- Repeat every 12-24 hours until the bleeding episode is resolved</p> <p><u>Major</u></p> <p>Target Factor VIII level (IU/dL or % of normal) 60-100%- Repeat every 8-24 hours until the bleeding episode is resolved.</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Target Factor VIII level (IU/dL or % of normal) 30-60%- Repeat every 24 hours, for at least one day, until the bleeding episode is resolved</p> <p><u>Major</u></p> <p>Target Factor VIII level (IU/dL or % of normal) 80-100%- Repeat every 8-24 hours until adequate wound healing, then continue for at least another 7 days.</p>

Indication	Dose
Routine Prophylaxis Congenital Hemophilia A	Adults and adolescents (≥ 12 yrs old): Administer 20-50 IU per kg body weight 2 to 3 times per week. Adjust the dose based on the patient's clinical response. Children (< 12 yrs old): Administer 30-50 IU per kg body weight 2 to 3 times per week. Adjust the dose based on the patient's clinical response.

Eloctate

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) <u>Minor and Moderate</u> Circulating Factor VIII required (% of normal) (40-60%) = 20-30 IU/ kg -Repeat every 24-48 hours as needed (every 12 to 24 hours for patients under age of 6). Continue until the bleeding episode is resolved. <u>Major</u> Circulating Factor VIII required (% of normal) (80-100%) = 40-50 IU/ kg - Repeat every 12-24 hours as needed (every 8 to 24 hours for patients under age of 6). Continue until the bleeding episode is resolved (approximately 7-10 days).
Routine Prophylaxis Congenital Hemophilia A	The recommended starting regimen is 50 IU/kg administered every 4 days. The regimen may be adjusted based on patient response with dosing in the range of 25-65 IU/kg at 3-5 day intervals. More frequent or higher doses up to 80 IU/kg may be required in children less than 6 years of age.
Perioperative management Congenital Hemophilia A	<u>Minor</u> Circulating Factor VIII required (% of normal) (50-80%) = 25-40 IU/ kg -Repeat every 24 hours as needed (every 12 to 24 hours for patients under age of 6). Continue at least 1 day until healing is achieved. <u>Major</u> Circulating Factor VIII required (% of normal) (80-120%) = Preoperative: 40-60 IU/ kg – Followed by a repeat dose of 40-50 IU/kg after 8-24 hours (every 6 to 24 hours for patients under age of 6). Continue every 24 hours until adequate wound healing; then continue therapy for at least 7 days to maintain to maintain FVII activity within the target range.

Helixate FS

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) <u>Minor</u> Circulating Factor VIII required (% of normal) (20-40%) = 10-20 IU/ kg -Repeat dose if there is evidence of further bleeding and continue until the bleeding episode is resolved.

Indication	Dose
	<p><u>Moderate</u></p> <p>Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg - Repeat every 12-24 hours as needed. Continue until the bleeding episode is resolved.</p> <p><u>Major</u></p> <p>Circulating Factor VIII Required (% of normal) (80-100%) = Initial: 40-50 IU/ kg – Repeat 20-25 IU/kg every 8-12 hours until the bleeding episode is resolved.</p>
Routine Prophylaxis Congenital Hemophilia A	<p><u>Routine Prophylaxis in Adults</u></p> <p>The recommended dose for routine prophylaxis is 25 units per kg of body weight three times per week.</p> <p><u>Routine Prophylaxis in Children</u></p> <p>The recommended dose for routine prophylaxis is 25 IU/kg of body weight every other day.</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg – Repeat every 12- 24 hours until bleeding is resolved.</p> <p><u>Major</u></p> <p>Circulating Factor VIII required (% of normal) (100%) = Preoperative: 50 IU/ kg to achieve 100% activity. Followed by a repeat dose every 6-12 hours to keep FVIII activity in desired range. Continue until healing is complete.</p>

Hemofil M

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Early hemarthrosis or muscle bleed or oral bleed</u></p> <p>Circulating Factor VIII required (% of normal) (20-40%) = - Begin infusion every 12 to 24 hours for one-three days until the bleeding episode as indicated by pain is resolved or healing is achieved..</p> <p><u>More extensive hemarthrosis, muscle bleed, or hematoma</u></p> <p>Circulating Factor VIII required (% of normal) (30-60%) = Repeat every 12-24 hours for usually three days or more until pain and disability are resolved.</p> <p><u>Life threatening bleeds such as head injury, throat bleed, severe abdominal pain</u></p> <p>Circulating Factor VIII Required (% of normal) (60-100%) = Repeat every 8-24 hours until the bleeding threat is resolved.</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Circulating Factor VIII required (% of normal) (60-80%) A single infusion plus oral antifibrinolytic therapy within one hour is sufficient in approximately 70% of cases.</p> <p><u>Major</u></p>

Indication	Dose
	Circulating Factor VIII required (% of normal) (80-100% pre- and post-operative): Repeat dose every 8-24 hours depending on state of healing.

Koate DVI

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Mild</u> Circulating Factor VIII required (% of normal) (20%) = 10 IU/kg- Therapy need not be repeated unless there is evidence of further bleeding.</p> <p><u>Moderate</u> Circulating Factor VIII required (% of normal) (30-50%) = 15-25 IU/kg - If further therapy is required, repeated doses of 10-15 IU per kg every 8-12 hours may be given.</p> <p><u>Severe</u> Circulating Factor VIII Required (% of normal) (80-100%) =40-50 IU/kg – followed by a maintenance dose of 20-25 IU per kg every 8-12 hours.</p>
Routine prophylaxis Hemophilia A §	25-40 IU/kg three times weekly or 15-30 IU/kg three times weekly. Adjust dosing regimen based on individual response.
Perioperative management Congenital Hemophilia A	For major surgical procedures, the Factor VIII level should be raised to approximately 100% by giving a preoperative dose of 50 IU/kg. The Factor VIII level should be checked to assure that the expected level is achieved before the patient goes to surgery. In order to maintain hemostatic levels, repeat infusions may be necessary every 6 to 12 hours initially, and for a total of 10 to 14 days until healing is complete. The intensity of Factor VIII replacement therapy required depends on the type of surgery and postoperative regimen employed. For minor surgical procedures, less intensive treatment schedules may provide adequate hemostasis.

Kogenate FS

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u> Circulating Factor VIII required (% of normal) (20-40%) = 10-20 IU/ kg -Repeat dose if there is evidence of further bleeding and continue until the bleeding episode is resolved.</p> <p><u>Moderate</u> Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg - Repeat every 12-24 hours as needed. Continue until the bleeding episode is resolved.</p> <p><u>Major</u></p>

Indication	Dose
	Circulating Factor VIII Required (% of normal) (80-100%) = Initial: 40-50 IU/ kg; Repeat 20-25 IU/kg every 8-12 hours until the bleeding episode is resolved.
Routine Prophylaxis Congenital Hemophilia A	<u>Routine Prophylaxis in Adults</u> 25 units per kg of body weight three times per week. <u>Routine Prophylaxis in Children</u> 25 IU/kg of body weight every other day.
Perioperative management Congenital Hemophilia A	<u>Minor</u> Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg – Repeat every 12- 24 hours until bleeding is resolved. <u>Major</u> Circulating Factor VIII required (% of normal) (100%) = Preoperative: 50 IU/ kg to achieve 100% activity. Followed by a repeat dose every 6-12 hours to keep FVIII activity in desired range. Continue until healing is complete.

Kovaltry

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<ul style="list-style-type: none"> Required dose (IU) = body weight (kg) x desired Factor VIII rise (% of normal or IU/dL) x reciprocal of expected/observed recovery (e.g., 0.5 for a recovery of 2 IU/dL per IU/kg) Estimated Increment of Factor VIII (IU/dL or % of normal) = [Total Dose (IU)/body weight (kg)] x 2 (IU/dL per IU/kg) <u>Minor</u> (Early hemarthrosis, minor muscle, oral bleeds) Factor VIII level required (IU/dL or % of normal): 20-40 – repeat every 12-24 hours at least 1 day, until bleeding episode as indicated by pain is resolved or healing is achieved. <u>Moderate</u> (More extensive hemarthrosis, muscle bleeding, or hematoma) Factor VIII level required (IU/dL or % of normal): 30-60 – repeat every 12-24 hours for 3 to 4 days or more until pain and acute disability are resolved. <u>Major</u> (Intracranial, intra-abdominal or intrathoracic hemorrhages, gastrointestinal bleeding, central nervous system bleeding, bleeding in the retropharyngeal or retroperitoneal spaces, or iliopsoas sheath, life or limb threatening hemorrhage) Factor VIII level required (IU/dL or % of normal): 60-100 – repeat every 8-24 hours until bleeding is resolved.
Routine Prophylaxis Congenital Hemophilia A	Individualize the patient's dose based on clinical response: <ul style="list-style-type: none"> Adults and adolescents: 20 to 40 IU of KOVALTRY per kg of body weight two or three times per week. Children ≤12 years old: 25 to 50 IU of KOVALTRY per kg body weight twice weekly, three times weekly, or every other day according to individual requirements

Indication	Dose
Perioperative management Congenital Hemophilia A	<p><u>Minor</u> (Such as tooth extraction) Factor VIII level required (IU/dL or % of normal): 30-60 (pre- and post-operative) – repeat every 24 hours at least 1 day until healing is achieved.</p> <p><u>Major</u> (Such as intracranial, intraabdominal, intrathoracic, or joint replacement surgery) Factor VIII level required (IU/dL or % of normal): 80-100 – repeat every 8-24 hours until adequate wound healing is complete, then continue therapy for at least another 7 days to maintain Factor VIII activity of 30-60% (IU/dL).</p>

Monoclate P

Indication	Dose
Control and prevention of bleeding and perioperative management Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Mild Hemorrhages</u> Minor hemorrhagic episodes will generally subside with a single infusion if a level of 30% or more is attained.</p> <p><u>Moderate Hemorrhage and Minor Surgery</u> For more serious hemorrhages and minor surgical procedures, the patient's Factor VIII level should be raised to 30-50% of normal, which usually requires an initial dose of 15-25 I.U. per kg. If further therapy is required a maintenance dose is 10-15 I.U. per kg every 8-12 hours.</p> <p><u>Severe Hemorrhage</u> In hemorrhages near vital organs (neck, throat, subperitoneal) it may be desirable to raise the Factor VIII level to 80-100% of normal which can be achieved with an initial dose of 40-50 I.U. per kg and a maintenance dose of 20-25 I.U. per kg every 8-12 hours.</p> <p><u>Major Surgery</u> For surgical procedures a dose of AHF sufficient to achieve a level 80-100% of normal should be given an hour prior to surgery. A second dose, half the size of the priming dose, should be given five hours after the first dose. Factor VIII levels should be maintained at a daily minimum of at least 30% for a period of 10-14 days postoperatively. Close laboratory control to maintain AHF plasma levels deemed appropriate to maintain hemostasis is recommended.</p>
Routine prophylaxis Hemophilia A §	25-40 IU/kg three times weekly or 15-30 IU/kg three times weekly. Adjust dosing regimen based on individual response.

Novoeight

Indication	Dose
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Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u> Circulating Factor VIII required (% of normal) (20-40%), every 12 – 24 hours for at least 1 day until the bleeding episode is resolved</p> <p><u>Moderate</u> Circulating Factor VIII required (% of normal) (30-60%), every 12 – 24 hours until pain and acute disability are resolved, approximately 3-4 days</p> <p><u>Major</u> Circulating Factor VIII Required (% of normal) (60-100%), every 8 – 24 hours until resolution of bleed, approximately 7-10 days.</p>
Perioperative management Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u> Circulating Factor VIII required (% of normal) (30-60%), at least</p> <p><u>Major</u> Circulating Factor VIII required (% of normal) (80-100%) every 8 – 24 hours until adequate wound healing, then continue therapy for at least 7 days to maintain a factor VIII activity of 30 – 60% (IU/dL)</p>
Prophylaxis to prevent or reduce the frequency of bleeding episodes Hemophilia A	<p>Adults and adolescents (≥12 yrs): 20-50 IU/kg three times weekly OR 20-40 IU/kg every other day</p> <p>Children (<12 yrs): 25-60 IU/kg three times weekly OR 25-50 IU/kg every other day</p>

NUWIQ

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p><u>Dose</u> Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg per IU/dL)</p> <p>Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg)</p> <p><u>Minor</u> Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 20-40 every 12 – 24 hours for at least 1 day until the bleeding episode is resolved</p> <p><u>Moderate to Major</u> Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 30-60 every 12 – 24 hours for 3-4 days or more until the bleeding episode is resolved</p> <p><u>Life-threatening</u> Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 60-100 every 8 – 24 hours bleeding risk is resolved</p>

Indication	Dose
Routine Prophylaxis Congenital Hemophilia A	<p><u>Dose</u></p> <p>Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg per IU/dL)</p> <p>Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg)</p> <p><u>Adolescents (12-17 years) and adults</u></p> <p>30 – 40 IU/kg every other day</p> <p><u>Children (2-11 years)</u></p> <p>30 – 50 IU/kg every other day or three times per week</p>
Perioperative management Congenital Hemophilia A	<p><u>Dose</u></p> <p>Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg per IU/dL)</p> <p>Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg)</p> <p><u>Minor</u></p> <p>Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 30-60 (pre- and post-operative) every 24 hours for at least 1 day until healing is achieved</p> <p><u>Major</u></p> <p>Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 80-100 (pre- and post-operative) every 8 - 24 hours until adequate wound healing, then continue therapy for at least another 7 days to maintain Factor VIII activity of 30% to 60% (IU/dL)</p>

Obizur

Indication	Dose
Bleeding episodes Acquired Hemophilia A	<p><u>Minor and Moderate</u></p> <p>Loading dose: 200IU/kg; Maintenance dose: Titrate to maintain recommended FVIII trough levels at 50-100 IU/dL every 4 to 12 hours</p> <p><u>Major</u></p> <p>Loading dose: 200 IU/kg ; Maintenance dose: Titrate to maintain recommended FVIII trough levels at 100-200(acute), then 50-100 IU/dL (after acute bleed is controlled) every 4 to 12 hours</p>

Recombinate

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Early hemarthrosis or muscle bleed or oral bleed</u></p> <p>Circulating Factor VIII required (% of normal) (20-40%) - Begin infusion every 12 to 24 hours for one-three days until the bleeding episode as indicated by pain is resolved or healing is achieved.</p> <p><u>More extensive hemarthrosis, muscle bleed, or hematoma</u></p>

Indication	Dose
	<p>Circulating Factor VIII required (% of normal) (30-60%) - Repeat every 12-24 hours for usually three days or more until pain and disability are resolved.</p> <p><u>Life threatening bleeds such as head injury, throat bleed, severe abdominal pain</u></p> <p>Circulating Factor VIII Required (% of normal) (60-100%) - Repeat every 8-24 hours until the bleeding threat is resolved.</p>
Routine prophylaxis Hemophilia A §	25-40 IU/kg three times weekly or 15-30 IU/kg three times weekly. Adjust dosing regimen based on individual response.
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Circulating Factor VIII required (% of normal) (60-80%) - A single infusion plus oral antifibrinolytic therapy within one hour is sufficient in approximately 70% of cases.</p> <p><u>Major</u></p> <p>Circulating Factor VIII required (% of normal) (80-100% pre- and post-operative) - Repeat dose every 8-24 hours depending on state of healing.</p>

Xyntha

Indication	Dose
Control and prevention of bleeding Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)</p> <p><u>Minor</u></p> <p>Circulating Factor VIII required (% of normal) (20-40%) - Repeat dose every 12-24 hours for least 1 day, depending upon the severity of the bleeding episode.</p> <p><u>Moderate</u></p> <p>Circulating Factor VIII required (% of normal) (30-60%) - Repeat every 12-24 hours as needed. Continue for 3-4 days or until adequate local hemostasis is achieved.</p> <p><u>Major</u></p> <p>Circulating Factor VIII Required (% of normal) (60-100%) - Repeat every 8-24 hours until bleeding is resolved.</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u></p> <p>Circulating Factor VIII required (% of normal) (30-60%) - Repeat every 12-24 hours. Continue for 3-4 days or until adequate local hemostasis is achieved. For tooth extraction, a single infusion plus oral antifibrinolytic therapy within 1 hour may be sufficient.</p> <p><u>Major</u></p> <p>Circulating Factor VIII required (% of normal) (60-100%) - Repeat every 8-24 hours. Continue until threat is resolved, or in the case of surgery, until adequate local hemostasis and wound healing are achieved.</p>

Jivi

Indication	Dose
Control of bleeding episodes Congenital Hemophilia A	<p>Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x reciprocal of expected recovery (or observed recovery, if available) (e.g., 0.5 for a recovery of 2 IU/dL per IU/kg)</p> <p><u>Minor</u> Circulating Factor VIII required (% of normal) (20-40%) – 10-20IU/kg repeat dose every 24-48 hours until bleed resolves</p> <p><u>Moderate</u> Circulating Factor VIII required (% of normal) (30-60%) – 15-30IU/kg repeat dose every 24-48 hours until bleed resolves</p> <p><u>Major</u> Circulating Factor VIII Required (% of normal) (60-100%) – 30-50IU/kg repeat dose every 8-24 hours until bleed resolves</p>
Perioperative management Congenital Hemophilia A	<p><u>Minor</u> Circulating Factor VIII required (% of normal) (30-60%) – 15-30IU/kg repeat dose every 24 hours for at least 1 day until healing is achieved</p> <p><u>Major</u> Circulating Factor VIII required (% of normal) (80-100%) – 40-50IU/kg repeat dose every 12-24 hours until adequate wound healing is complete, then continue therapy for at least another 7 days to maintain Factor VIII activity of 30–60% (IU/dL)</p>
Routine Prophylaxis Congenital Hemophilia A	The recommended initial regimen is 30–40 IU/kg twice weekly. Based on the bleeding episodes. The regimen may be adjusted to 45–60 IU/kg every 5 days.

§ Utrecht and/or Malmö protocols used as basis for dosing²⁵

VII. Billing Code/Availability Information

Jcode & NDC:

Drug	Manufacturer	J-Code	1 Billable Unit Equiv.	Vial Size	NDC
Advate	Baxalta US Inc	J7192	1 IU	250 units	00944-3051-02
				500 units	00944-3052-02
				1000 units	00944-3053-02
				1500 units	00944-3054-02
				2000 units	00944-3045-10
				3000 units	00944-3046-10

Hemophilia Products – Factor VIII Prior Auth Criteria

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				4000 units	0944-3047-10
Helixate FS	CSL Behring LLC	J7192	1 IU	250 units	00053-8131-02
				500 units	00053-8132-02
				1000 units	00053-8133-02
				2000 units	00053-8134-02
				3000 units	00053-8135-02
Kogenate FS	Bayer HealthCare LLC	J7192	1 IU	250 units	00026-3782-25
				500 units	00026-3783-35
				1000 units	00026-3785-55
				2000 units	00026-3786-65
				3000 units	00026-3787-75
Recombinate	Baxalta US Inc	J7192	1 IU	220-400 units	00944-2841-10
				401-800 units	00944-2842-10
				801-1240 units	00944-2843-10
				1241-1800 units	00944-2844-10
				1801-2400 units	00944-2845-10
Kovaltry	Bayer HealthCare LLC	J7211	1 IU	250 units	00026-3821-25
				500 units	00026-3822-25
				1000 units	00026-3824-25
				2000 units	00026-3826-50
				3000 units	00026-3828-50
Eloctate	Biogen Idec Inc	J7205	1 IU	250 units	64406-0801-01
				500 units	64406-0802-01
				750 units	64406-0803-01
				1000 units	64406-0804-01
				1500 units	64406-0805-01
				2000 units	64406-0806-01
				3000 units	64406-0807-01
				4000 units	64406-0808-01
				5000 units	64406-0809-01
				6000 units	64406-0810-01
Koate-DVI	Grifols Therapeutics Inc	J7190	1 IU	250 units	76125-0250-20 76125-0253-25
				500 units	76125-0667-30 76125-0662-50

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				1000 units	76125-0672-50 76125-0674-10
Monoclate-P	CSL Behring LLC	J7190	1 IU	1000 units	00053-7633-02
				1500 units	00053-7634-02
Hemofil M	Baxalta US Inc	J7190	1 IU	250 units	00944-3940-02
				500 units	00944-3942-02
				1700 units	00944-3946-02
				1000 units	00944-3944-02
Novoeight	Novo Nordisk	J7182	1 IU	250 units	00169-7825-01
				500 units	00169-7850-01
				1000 units	00169-7810-01
				1500 units	00169-7815-01
				2000 units	00169-7820-01
				3000 units	00169-7830-01
Nuwiq	Octapharma AB	J7209	1 IU	250 units	68982-0140-01
				500 units	68982-0142-01
				1000 units	68982-0144-01
				2000 units	68982-0146-01
Obizur	Baxter Healthcare	J7188	1 IU	500 units	00944-5001-01
Xyntha	Wyeth Biopharma	J7185	1 IU	250 units	58394-0022-03
				500 units	58394-0023-03
				1000 units	58394-0024-03
				2000 units	58394-0025-03
				3000 units	58394-0016-03
Afstyla	CSL Behring, LLC	J7210	1 IU	250 units	69911-0474-02
				500 units	69911-0475-02
				1000 units	69911-0476-02
				1500 units	69911-0480-02
				2000 units	69911-0477-02
				2500 units	69911-0481-02
				3000 units	69911-0478-02
Adynovate	Baxalta US Inc	J7207	1 IU	250 units	00944-4622-01
				500 units	00944-4623-01
				750 units	00944-4626-01
				1000 units	00944-4624-01
				1500 units	00944-4627-01
				2000 units	00944-4625-01

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				3000 units	00944-4628-01
Jivi	Bayer	J7199	1 IU	500 units	0026-3942-25
				1000 units	0026-3944-25
				2000 units	0026-3946-25
				3000 units	0026-3948-25

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Appendix 1 – Covered Diagnosis Codes

Alphanate, Humate-P

ICD-10	ICD-10 Description
D66	Hereditary factor VIII deficiency
D68.0	Von Willebrand's disease

Obizur

ICD-10	ICD-10 Description
D68.311	Acquired hemophilia

Advate, Elocate, Helixate FS, Hemofil M, Koate-DVI, Kogenate FS, Monoclote-P, Recombinate, Xyntha, Novoeight. NUWIQ, Adynovate, Kovaltry, Afstyl, and Jivi

ICD-10	ICD-10 Description
D66	Hereditary factor VIII deficiency

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD) and Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. They can be found at: <http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx>. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD):

Jurisdiction(s): H,L	NCD/LCD Document (s): L35111
https://www.cms.gov/medicare-coverage-database/search/lcd-date-search.aspx?DocID=L35111&bc=gAAAAAAAAAAAAA ==	

Jurisdiction(s): N	NCD/LCD Document (s): L33684
https://www.cms.gov/medicare-coverage-database/search/lcd-date-search.aspx?DocID=L33684&bc=gAAAAAAAAAAAAA ==	

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Cahaba Government Benefit Administrators, LLC
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC