



Hemophilia Products – Factor VIII:

Advate, Adynovate, Afstyla, Eloctate, Hemofil M, Koate/Koate DVI, Kogenate FS, Kovaltry, Novoeight, Nuwiq, Obizur, Recombinate, Xyntha/Xyntha Solofuse, Jivi, Esperoct, Altuviiio (Intravenous)

Document Number: IH-0340

Last Review Date: 06/01/2023 Date of Origin: 12/16/2014

Dates Reviewed: 12/2014, 04/2015, 05/2015, 09/2015, 12/2015, 03/2016, 06/2016, 12/2016, 06/2017, 09/2017,

11/2017, 09/2018, 10/2018, 03/2019, 10/2019, 02/2020, 09/2020, 06/2022, 04/2023, 06/2023

I. Length of Authorization

Coverage is provided for 3 months and may be renewed thereafter, unless otherwise specified*.

<u>Note</u>: The cumulative amount of medication the patient has on-hand will be taken into account for authorizations. Up to 5 'on-hand' doses for the treatment of acute bleeding episodes will be permitted at the time of the authorization request.

*Initial and renewal authorization periods may vary by specific covered indication

II. Dosing Limits

- A. Quantity Limit (max daily dose) [NDC unit]:
 - N/A

B. Max Units (per dose and over time) [HCPCS Unit]:

- 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
- 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
- Nuwig: 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
- Recombinate: 55,200 billable units per 28-day supply
- Xyntha/Xyntha Solofuse: 41,400 billable units per 28-day supply
- Obizur: 115,000 billable units per 90-day supply



- Jivi: 41,400 billable units per 30-day supply
- Esperoct: 40,250 billable units per 28 days
- Altuviiio: 23,000 units per 28 days

III. Initial Approval Criteria 1-17,22,23

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.

Coverage is provided in the following conditions:

This requirement is for new starts only:

- For extended half-life agents (e.g., Adynovate, Eloctate or Esperoct), patient must have tried and failed treatment with Jivi (antihemophilic factor (recombinant), PEGylatedaucl) or a contraindication exists; AND
- A. Advate, Eloctate Φ , Hemofil M, Koate/Koate DVI, Kogenate FS Φ , Novoeight, Recombinate, Xyntha/Xyntha Solofuse Φ , Nuwiq, Adynovate, Kovaltry, Afstyla, Jivi, Esperoct, Altuviiio

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 at least 12 years of age, or if request is for Altuviiio, patient must be at least 1 year of age; **AND**
- Will not be used for the treatment of von Willebrand's disease; AND
- Used as treatment in at least one of the following:
 - o On-demand treatment and control of bleeding episodes **OR**
 - o Perioperative management (*Authorizations valid for 1 month); **OR**
 - o Routine prophylaxis; **AND**
 - Used to reduce the frequency of bleeding episodes; OR
 - Used to 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≥ 30, a half-life study should be performed to determine the appropriate dose and dosing
 interval.
- If the request is for Eloctate, Adynovate, Jivi, Esperoct, or Altuviiio the following criteria should be met:
 - o 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, Jivi, or Esperoct 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
 - 50 IU/kg every 4 days (total weekly dose of 87.5 IU/kg) for Esperoct
- 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 10

Acquired Hemophilia A (acquired factor VIII deficiency) † Φ

- Patient is at least 18 years of age; AND
- Diagnosis of acquired factor VIII deficiency has been confirmed by blood coagulation testing; AND
- Used as on-demand treatment and control of bleeding episodes; AND
- Is NOT being used for congenital Hemophilia A OR von Willebrand disease; AND
- Patient does not have baseline anti-porcine factor VIII inhibitor titer >20 Bethesda Units (BU)

Hemophilia Management Program

- For members with a BMI ≥ 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); ‡ Compendia Recommended Indication(s); **Φ** Orphan Drug



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 1-17,22,23

Coverage can be renewed based upon the following criteria:

- Patient continues to meet indication-specific relevant criteria identified in section III; AND
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: anaphylaxis and hypersensitivity reactions (e.g., angioedema, chest tightness, dyspnea, wheezing, urticaria, pruritus, hypotension, etc.), thromboembolic events (thromboembolism, pulmonary embolism), development of neutralizing antibodies (inhibitors), etc.; 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.); AND
- 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; **AND**

On-demand treatment of bleeding episodes and control of bleeding episodes

• Renewals will be approved for a 6-month authorization period.

Perioperative management of bleeding

Coverage may NOT be renewed



Routine prophylaxis

- Renewals will be approved for a 12-month authorization period; AND
- Patient has demonstrated a beneficial response to therapy (i.e., the frequency of bleeding episodes has decreased from pre-treatment baseline)

Dosage/Administration 1-16,22 VI.

Advate

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU/kg) = desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Minor 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 underage of 6). Continue until the bleeding episode is resolved (as indicated by relief of pain) or healing is achieved (approximately 1 to 3 days). Moderate 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 underage of 6). Continue until the bleeding episode is resolved (as indicated by relief of pain) or healing is achieved (approximately 3 days or more). Major 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 underage of 6). Continue until the bleeding episode is resolved.
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 ≥ 1% may be employed. Adjust dose based on the patient's clinical response.
Perioperative management Congenital Hemophilia A	Minor 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. Major 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) postoperatively until healing is complete.

Adynovate

Indication	Dose
On-demand	Dose (IU) = Body Weight (kg) x Desired factor VIII rise (IU/dL or % of normal) x 0.5
treatment and	(IU/kg per IU/dL)



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Indication	Dose	
control of bleeding episodes Congenital Hemophilia A	Minor 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 Moderate 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 Major Target Factor VIII level (IU/dL or % of normal) (60-100%) = 30-50 IU/kg - Repeat	
Perioperative management Congenital Hemophilia A	every 8-24 hours until the bleeding episode is resolved. Minor 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. Major 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) to maintain FVIII	
Routine prophylaxis Congenital Hemophilia A	activity within the target range and continue until adequate wound healing.	

Afstyla

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU) = Body Weight (kg) x Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Minor Target Factor VIII level (IU/dL or % of normal) 20-40% -Repeat every 12-24 hours until the bleeding episode is resolved. Moderate Target Factor VIII level (IU/dL or % of normal) 30-60%- Repeat every 12-24 hours until the bleeding episode is resolved. Major Target Factor VIII level (IU/dL or % of normal) 60-100%- Repeat every 8-24 hours until the bleeding episode is resolved.



Indication	Dose
Perioperative management Congenital Hemophilia A	Minor Target Factor VIII level (IU/dL or % of normal) 30-60%- Repeat every 24 hours, for at least one day, until healing is achieved. Major 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 to maintain a Factor VIII activity of 30-60% (IU/dL).
Routine prophylaxis Congenital Hemophilia A	Adults and adolescents (>12yrs 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.

Altuviiio

Indication	Dose
On-demand	Minor/Moderate
treatment and control of bleeding episodes Congenital Hemophilia A	Single dose of 50 IU/kg. For minor and moderate bleeding episodes occurring within 2 to 3 days after a prophylactic dose, a lower dose of 30 IU/kg dose may be used. Additional doses of 30 or 50 IU/kg every 2 to 3 days may be considered. Major Single dose of 50 IU/kg. Additional doses of 30 or 50 IU/kg every 2 to 3 days can be considered. Note: For resumption of prophylaxis (if applicable) after treatment of a bleed, it is recommended to allow an interval of at least 72 hours between the last 50 IU/kg dose
	for treatment of a bleed and resuming prophylaxis dosing. Thereafter, prophylaxis can be continued as usual on the patient's regular schedule.
Perioperative management Congenital Hemophilia A	Minor Single dose of 50 IU/kg. An additional dose of 30 or 50 IU/kg after 2 to 3 days may be considered. Major Single dose of 50 IU/kg. Additional doses of 30 or 50 IU/kg every 2 to 3 days may be administered as clinically needed for perioperative management.
Routine prophylaxis Congenital Hemophilia A	The recommended dosing for routine prophylaxis for adults and children is 50 IU/kg of Altuviiio administered once weekly.

- For the dose of 50 1U/kg, the expected in vivo peak increase in Factor VIII level expressed as 1U/dL (or % of normal is estimated using the following formula:
- Estimated Increment of Factor VIII (IU/dL or % of normal) = $50 \text{ IU/kg} \times 2 \text{ (IU/dL per IU/kg)}$



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Indication	Dose

- To achieve a specific target Factor VIII activity level, use the following formula: Dosage (IU) = Body Weight (kg) x Desired Factor VIII Increase (IU/dL or % normal) x 0.5 (IU/kg per IU/dL).

Eloctate

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Minor and Moderate 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. Major 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	Adults: 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. Children < 6 years of age: The recommended starting regimen is 50 IU/kg administered twice weekly. 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.
Perioperative management Congenital Hemophilia A	Minor 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 underage of 6). Continue at least 1 day until healing is achieved. Major 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 (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 FVII activity within the target range.

Esperoct

Indication	Dose
	One IU of Factor VIII activity corresponds to the quantity of Factor VIII in one milliliter of normal human plasma. The calculation of the required dosage of Factor
control of bleeding	VIII is based on the empirical finding that one IU of Factor VIII per kg body weight raises the plasma Factor VIII activity by two IU/dL.
Congenital Hemophilia A	To achieve a specific target Factor VIII activity level, use the following formula: Dosage (IU) = Body Weight (kg) \times Desired Factor VIII Increase (IU/dL or % normal) \times 0.5; OR



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without approval.

Indication	Dose				
	Type of bleeding	Adolescents/Ad ≥12 years Dose (IU/kg)	<12	ildren years (IU/kg)	Additional doses
	Minor Early hemarthrosis, mild muscle bleeding, or oral bleeding	40		65	One dose should be sufficient
	Moderate More extensive hemarthrosis, muscle bleeding, or hematoma	e 40		65	An additional dose may be administered after 24 hours
	Major Life- or limb-threatening hemorrhag gastro- intestinal bleeding, intracrani intra-abdominal or intrathoracic bleeding, fractures			65	Additional dose(s) may be administered approximately every 24 hours
Routine prophylaxis	– Adults and adolescents (≥ 12 years): The recommended starting dose is 50 IU per				
Congenital	kg body weight every 4 days. This regimen may be individually adjusted to less or				
Hemophilia A	more frequent dosing based on bleeding episodes.				
	 Children (< 12 years): A dose of 65 IU per kg body weight twice weekly. This regimen may be individually adjusted to less or more frequent dosing based on bleeding episodes. 				
Perioperative management	To achieve a specific target Factor VIII activity level, use the following formula: Dosage (IU) = Body Weight (kg) × Desired Factor VIII Increase (IU/dL or % normal) × 0.5; OR				
Congenital Hemophilia A	agenital Type of surgery Adolescents/Adults Children <12 years Addi		Additional doses		
	Minor Including tooth extraction	50	65		dose(s) can be given ours if necessary
	Major Intracranial, intra-abdominal, intrathoracic, or joint replacement surgery	50	65	24 hours for approxima	doses can be given every or the first week and then tely every 48 hours until ding has occurred

Hemofil M

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Early hemarthrosis or muscle bleed or oral bleed 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. More extensive hemarthrosis, muscle bleed, or hematoma 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. Life threatening bleeds such as head injury, throat bleed, severe abdominal pain Circulating Factor VIII Required (% of normal) (60-100%) = Repeat every 8-24 hours until the bleeding threat is resolved.
Perioperative management	Minor



Indication	Dose
Congenital	Circulating Factor VIII required (% of normal) (60-80%) A single infusion plus
Hemophilia A	oral antifibrinolytic therapy within one hour is sufficient in approximately 70% of
	cases.
	<u>Major</u>
	Circulating Factor VIII required (% of normal) (80-100% pre- and post-operative):
	Repeat dose every 8-24 hours depending on state of healing.

Jivi

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	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) Minor Circulating Factor VIII required (% of normal) (20-40%) – 10-20IU/kg repeat dose every 24-48 hours until bleed resolves Moderate Circulating Factor VIII required (% of normal) (30-60%) – 15-30IU/kg repeat dose every 24-48 hours until bleed resolves Major Circulating Factor VIII Required (% of normal) (60-100%) – 30-50IU/kg repeat dose every 8-24 hours until bleed resolves
Perioperative management Congenital Hemophilia A	Minor 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 Major 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)
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 or may be further individually adjusted to less or more frequent dosing.

Koate/Koate DVI

Indication	Dose
On-demand treatment and	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)
control of bleeding episodes Congenital Hemophilia A	$\frac{\text{Mild}}{\text{Circulating Factor VIII required (\% of normal) (20\%)} = 10 \text{ IU/kg- Therapy need}}$ not be repeated unless there is evidence of further bleeding.}



Indication	Dose
	<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.
	<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.
Routine prophylaxis	25-40 IU/kg three times weekly or 15-30 IU/kg three times weekly. Adjust dosing
Hemophilia A §	regimen based on individual response.
Perioperative	For major surgical procedures, the Factor VIII level should be raised to
management	approximately 100% by giving a preoperative dose of 50 IU/kg. The Factor VIII
Congenital	level should be checked to assure that the expected level is achieved before the
Hemophilia A	patient goes to surgery. 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
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Minor 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. Moderate 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. Major 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	Routine Prophylaxis in Adults 25 units per kg of body weight three times per week. Routine Prophylaxis in Children 25 IU/kg of body weight every other day.
Perioperative management Congenital Hemophilia A	Minor Circulating Factor VIII required (% of normal) (30-60%) = 15-30 IU/ kg – Repeat every 12- 24 hours until bleeding is resolved. Major



Indication	Dose
	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
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	 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) Minor (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. Moderate (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.
	Major (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: 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
Perioperative management Congenital Hemophilia A	Minor (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. Major (Such as intracranial, intraabdominal, intrathoracic, or joint replacement surgery) Factor VIII level required (IU/dL or % of normal): 80-100 (pre- and post-operative) – 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).



Novoeight

Indication	Dose
On-demand treatment	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)
and control of	Minor
bleeding episodes Congenital	Circulating Factor VIII required (% of normal) (20-40%), every $12-24$ hours for at least 1 day until the bleeding episode is resolved
Hemophilia A	Moderate
	Circulating Factor VIII required (% of normal) (30-60%), every $12-24$ hours until pain and acute disability are resolved, approximately 3-4 days
	<u>Major</u>
	Circulating Factor VIII Required (% of normal) (60-100%), every 8 – 24 hours until resolution of bleed, approximately 7-10 days.
Perioperative	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per
management	IU/dL)
Hemophilia A	Minor
	Circulating Factor VIII required (% of normal) (30-60%) every 24 hours for at least 1 day until healing is achieved.
	<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)
Routine prophylaxis	Adults and adolescents (≥12 yrs):
Hemophilia A	20-50 IU/kg three times weekly OR
	20-40 IU/kg every other day
	Children (<12 yrs):
	25-60 IU/kg three times weekly OR
	25-50 IU/kg every other day

NUWIQ

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg per IU/dL) Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg) Minor 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 Moderate to Major 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



Indication	Dose
	<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
Routine prophylaxis	<u>Dose</u>
Congenital	Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg
Hemophilia A	per IU/dL)
	Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg)
	Adolescents (12-17 years) and adults
	30-40 IU/kg every other day
	Children (2-11 years)
	30-50 IU/kg every other day or three times per week
Perioperative	<u>Dose</u>
management	Required IU = body weight (kg) x desired Factor VIII rise (%) (IU/dL) x 0.5 (IU/kg
Congenital	per IU/dL)
Hemophilia A	Expected Factor VIII rise (% of normal) = 2 x administered IU/body weight (kg)
	Minor
	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
	<u>Major</u>
	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)

Obizur

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

Recombinate

Indication	Dose
On-demand	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per
treatment and control	IU/dL)
of bleeding episodes	Early hemarthrosis or muscle bleed or oral bleed



Indication	Dose
Congenital Hemophilia A	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.
	More extensive hemarthrosis, muscle bleed, or hematoma 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. Life threatening bleeds such as head injury, throat bleed, severe abdominal pain Circulating Factor VIII Required (% of normal) (60-100%) - Repeat every 8-24 hours until the bleeding threat is resolved.
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	Minor 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.
	Major Circulating Factor VIII required (% of normal) (80-100% pre- and post-operative) - Repeat dose every 8-24 hours depending on state of healing.

Xyntha/Xyntha Solofuse

Indication	Dose
On-demand treatment and control of bleeding episodes Congenital Hemophilia A	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Minor 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. Moderate 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. Major Circulating Factor VIII Required (% of normal) (60-100%) - Repeat every 8-24 hours until bleeding is resolved.
Perioperative management Congenital Hemophilia A	Minor 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. Major



Indication	Dose	
	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.	
Routine prophylaxis Hemophilia A	Adults and adolescents (>12 years): The recommended starting regimen is 30 IU/kg of Xyntha administered 3 times weekly. Children (<12 years): The recommended starting regimen is 25 IU/kg of Xyntha administered every other day. More frequent or higher doses may be required in children <12 years of age to account for the higher clearance in this age group. Note: Adjust the dosing regimen (dose or frequency) based on the patient's clinical response.	

[§] Utrecht and/or Malmö protocols used as basis for dosing

VII. Billing Code/Availability Information

HCPCS Code & NDC:

Drug	Manufacturer	HCPCS Codes	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
				4000 units	00944-3047-10
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	Bioverativ	J7205	1 IU	250 units	71104-0801-01
	Therapeutics Inc.			500 units	71104-0802-01
				750 units	71104-0803-01
				1000 units	71104-0804-01
				1500 units	71104-0805-01
				2000 units	71104-0806-01

				3000 units	71104-0807-01
				4000 units	71104-0808-01
				5000 units	71104-0809-01
				6000 units	71104-0810-01
T7 . /T7	G :01 FF	T=100	4 777		76125-0250-20
Koate/Koate	Grifols Therapeutics	J7190	1 IU	250 units	76125-0253-25
DVI	Inc				76125-0256-20
					76125-0257-25
					76125-0258-02
					76125-0259-02
				7 00 :	76125-0661-02
				500 units	76125-0662-50
					76125-0663-50
					76125-0665-02
					76125-0667-30
					76125-0668-30
				1000 units	76125-0672-50
				1000 units	76125-0674-10
					76125-0675-12
					76125-0676-50
					76125-0678-10
					76125-0679-12
Hemofil M	Takeda	J7190	1 IU	250 units	00944-3940-02
	Pharmaceuticals USA,			500 units	00944-3942-02
	Inc.			1000 units	00944-3944-02
				1700 units	00944-3946-02
Novoeight	Novo Nordisk Inc.	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
				1500 units	68982-0154-01
				2000 units	68982-0146-01
				2500 units	68982-0148-01
				3000 units	68982-0150-01
				4000 units	68982-0152-01
Obizur	Baxalta US Inc.	J7188	1 IU	500 units	00944-5001-xx
Xyntha/Xyntha	Wyeth	J7185	1 IU	250 units	58394-0012-01
Solofuse	Pharmaceuticals LLC			250 units	58394-0022-03
				500 units	58394-0013-01
				500 units	58394-0023-03
				1000 units	58394-0014-01
				1000 units	58394-0024-03
				2000 units	58394-0015-01
					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
	<u> </u>			1000 411100	00011 0400 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
				3000 units	00944-4628-01
				500 units	00026-3942-25
				1000 units	00026-3944-25
Jivi	Bayer HealthCare LLC	J7208	1 IU	2000 units	00026-3946-25
				3000 units	00026-3948-25
				500 units	00169-8500-01
				1000 units	00169-8100-01
Esperoct	Novo Nordisk Inc.	J7204	1 IU	1500 units	00169-8150-01
				2000 units	00169-8200-01
				3000 units	00169-8300-01
				250 units	71104-0978-01
				500 units	71104-0979-01
				750 units	71104-0980-01
	Bioverativ	J7199	N/A	1000 units	71104-0981-01
Altuviiio	Therapeutics Inc.	3,130	1,111	2000 units	71104-0982-01
Altuviilo				3000 units	71104-0983-01
				4000 units	71104-0984-01

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Appendix 1 – Covered Diagnosis Codes

Obizur

ICD-10	ICD-10 Description
ICD-TO	ICD-10 DC3CHPHOH



D68.311	Acquired hemophilia
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Advate, Eloctate, Hemofil M, Koate-DVI, Kogenate FS, Recombinate, Xyntha/Xyntha Solofuse, Novoeight. NUWIQ, Adynovate, Kovaltry, Afstyla, Jivi, and Altuviiio

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), Local Coverage Determinations (LCDs), and Local Coverage Articles (LCAs) may exist and compliance with these policies is required where applicable. They can be found at: https://www.cms.gov/medicare-coverage-database/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/LCA):

Jurisdiction(s):	NCD/LCD Document (s): A56482		
https://www.cms.gov	https://www.cms.gov/medicare-coverage-database/new-search/search-		
results.aspx?keyword=a56482&areaId=all&docType=NCA%2CCAL%2CNCD%2CMEDCAC%2CTA%2CMCD%2			
C6%2C3%2C5%2C19	<u>62CF%2CP</u>		

Jurisdiction(s): J,M	NCD/LCD Document (s): A56065
https://www.cms.gov/medica	re-coverage-database/new-search/search-
results.aspx?keyword=a5606	65&areaId=all&docType=NCA%2CCAL%2CNCD%2CMEDCAC%2CTA%2CMCD%2
C6%2C3%2C5%2C1%2CF%2	<u>2CP</u>

Jurisdiction(s): H,L	NCD/LCD Document (s): A56433		
https://www.cms.gov/medicare-coverage-database/new-search/search-			
results.aspx?keyword=a56433&areaId=all&docType=NCA%2CCAL%2CNCD%2CMEDCAC%2CTA%2CMCD%2			
C6%2C3%2C5%2C1%2CF%2	<u>ecp</u>		

	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	Palmetto GBA, LLC			



Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
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

