



Hemophilia Products – Factor VIII:

Advate, Adynovate, Afstyla, Eloctate, Hemofil M, Koate DVI, Kogenate FS, Kovaltry, Novoeight, Nuwiq, Obizur, Recombinate, Xyntha, Jivi, Esperoct

(Intravenous)

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I. Length of Authorization

Unless otherwise specified*, the initial authorization will be provided for 3 months and may be renewed.

<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 Solofuse: 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
- Esperoct: 40,250 units per 28 days

III. Initial Approval Criteria 1-14,15,16,21

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), PEGylated-aucl) or a contraindication exists; AND

Universal Criteria

A. Advate, Eloctate, Hemofil M, Koate-DVI, Kogenate FS, Novoeight, Recombinate, Xyntha, Nuwiq, Adynovate, Kovaltry, Afstyla, Jivi, Esperoct

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
- Will not be used for the treatment of von Willebrand's disease; 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 (*Authorizations valid for 1 month); **OR**
 - 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≥ 30, a half-life study should be performed to determine the appropriate dose and dosing interval.
- If the request is for Eloctate, Adynovate, Jivi, or Esperoct, 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.
 - o 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) †

- 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 ≥ 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 1-14,15,16,21

Coverage can be renewed based upon the following criteria:

- Patient continues to meet universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. 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.); 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**

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 6-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 12-month authorization period

VI. Dosage/Administration¹⁻¹⁶

Advate



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) 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 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). 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 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). 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 under age 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 \geq 1% may be employed.		
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). Duration of therapy depends on the desired level of FVIII		

Adynovate

Indication	Dose
bleeding 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%) = 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
	<u>Major</u>



Indication	Dose		
	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.		
Perioperative management Congenital Hemophilia A	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). Duration of therapy until adequate wound healing.		
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	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.
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 the bleeding episode is resolved 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.
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.

Eloctate



Indication	Dose		
Control and prevention of	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)		
bleeding Congenital	Minor and Moderate		
Hemophilia A	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	The recommended starting regimen is 50 IU/kg administered every 4 days. The		
Congenital	regimen may be adjusted based on patient response with dosing in the range of 25-		
Hemophilia A	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	Minor		
management	Circulating Factor VIII required (% of normal) (50-80%) = 25-40 IU/ kg -Repeat		
Congenital	every 24 hours as needed (every 12 to 24 hours for patients under age of 6).		
Hemophilia A	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.		

Esperoct

Indication	Dose			
Control and prevention of bleeding Congenital Hemophilia A	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 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. 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			
	Type of bleeding	Adolescents/Adults ≥12 years Dose (IU/kg)	Children <12 years Dose (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	40	65	An additional dose may be administered after 24 hours
	Major Life- or limb-threatening hemorrhages, gastro- intestinal bleeding, intracranial,	50	65	Additional dose(s) may be administered



Indication	Dose			
	intra-abdominal or intrathoracic bleeding, fractures			approximately every 24 hours
Routine Prophylaxis Congenital Hemophilia A	 Adults and adolescents (≥ 12 years): The recommended starting dose is 50 IU per kg body weight every 4 days. This regimen may be individually adjusted to less or 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	Type of surgery	Adolescents/Adults ≥12 years Dose (IU/kg)	Children <12 years Dose (IU/kg)	Additional doses
	Minor Including tooth extraction	50	65	Additional dose(s) can be given after 24 hours if necessary
	Major Intracranial, intra- abdominal, intrathoracic, or joint replacement surgery	50	65	Additional doses can be given every 24 hours for the first week and then approximately every 48 hours until wound healing has occurred

Hemofil M

Indication	Dose	
Control and prevention of	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL)	
bleeding Congenital	Early hemarthrosis or muscle bleed or oral bleed	
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.	
Perioperative	Minor	
management Congenital Hemophilia A	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.	
	<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
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.

Koate DVI

Indication	Dose
Control and prevention of bleeding Congenital	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per IU/dL) Mild
Hemophilia A	Circulating Factor VIII required (% of normal) (20%) = 10 IU/kg- Therapy need not be repeated unless there is evidence of further bleeding. Moderate
	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.
	Severe 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 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	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 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	 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. 			
	<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.			
	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	Minor			
management	(Such as tooth extraction)			
Congenital Hemophilia A	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 – 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
Control and	Dose (IU/kg) = Desired factor VIII rise (IU/dL or % of normal) x 0.5 (IU/kg per
prevention of	IU/dL)
bleeding Congenital	Minor
Hemophilia A	



	Circulating Factor VIII required (% of normal) (20-40%), every 12 – 24 hours for at least 1 day until the bleeding episode is resolved			
	<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			
	Major_			
	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%), at least			
	<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)			
Prophylaxis to	Adults and adolescents (≥12 yrs):			
prevent or reduce the	20-50 IU/kg three times weekly OR			
frequency of bleeding	20-40 IU/kg every other day			
episodes	Children (<12 yrs):			
Hemophilia A	25-60 IU/kg three times weekly OR			
	25-50 IU/kg every other day			

NUWIQ

Indication	Dose
Control and prevention of bleeding 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 Life-threatening Required peak post-infusion Factor VIII activity (% of normal or IU/dL): 60-100 every 8 - 24 hours bleeding risk is resolved
Routine Prophylaxis 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)



Indication	Dose			
	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	
Bleeding episodes Acquired Hemophilia A	Minor and Moderate Loading dose: 200IU/kg; Maintenance dose: Titrate to maintain recommended FVIII trough levels at 50-100 IU/dL every 4 to 12 hours	
	Major 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	

Recombinate

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) 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



Indication	Dose			
	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

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) 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 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

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

VII. Billing Code/Availability Information

HCPCS code & NDC:



			1 Billable		
Drug	Manufacturer	J-Code	Unit	Vial Size	NDC
			Equiv.		
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	0944-3047-10
Kogenate FS	Bayer HealthCare LLC	J7192	1 IU	250 units	00026-3782-25
		07192		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
riecombinate	Baxaita OB IIIC	01102	110	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
Rovaitry	Bayer Heartineare EEC	01211	110	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	J7190	1 IU	250 units	76125-0250-20
- · · ·	Inc				76125-0253-25 76125-0667-30
				500 units	76125-0662-50
					76125-0672-50
				1000 units	76125-0674-10
Hemofil M	Baxalta US Inc	J7190	1 IU	250 units	00944-3940-02
1101110111 1/1	Dazana OD IIIC	01100	110	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
11010018110	TIOTOTIOIUISIX	01102	110	500 units	00169-7850-01
				1000 units	00169-7810-01
				1500 units	00169-7815-01
				2000 units	00169-7820-01
	1	l			
				3000 units	00169-7830-01



				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-xx
Xyntha	Wyeth Biopharma	J7185	1 IU	250 units	58394-0022-03
Solofuse				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
V				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	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	J7199	N/A	1500 units	00169-8150-01
Борогосо	110VO INDICATOR	01100	14/11	2000 units	00169-8200-01
				3000 units	00169-8300-01

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Appendix 1 – Covered Diagnosis Codes

Obizur

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

Advate, Eloctate, Hemofil M, Koate-DVI, Kogenate FS, Recombinate, Xyntha, Novoeight. NUWIQ, Adynovate, Kovaltry, Afstyla, 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): N	NCD/LCD Document (s): A56482				
https://www.cms.gov/medicare-coverage-database/search/article-date-					
search.aspx?DocID=A56482&bc=gAAAAAAAAAA					

Jurisdiction(s): J,M	NCD/LCD Document (s): A56065				
https://www.cms.gov/medicare-coverage-database/search/article-date-					
search.aspx?DocID=A56065&bc=gAAAAAAAAAA					

Jurisdiction(s): H,L	NCD/LCD Document (s): A56433				
https://www.cms.gov/medicare-coverage-database/search/article-date-					
search.aspx?DocID=A56433&bc=gAAAAAAAAAA					

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.		



Medicare Part B Administrative Contractor (MAC) Jurisdictions				
Jurisdiction	Applicable State/US Territory	Contractor		
J (10)	TN, GA, AL	Palmetto GBA, 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		

