

PHARMACY POLICY STATEMENT Marketplace		
DRUG NAME	Bleeding Disorder Agents	
BILLING CODE	Must use valid J code – see Table A	
BENEFIT TYPE	Medical	
STATUS	Prior Authorization Required	

Hemophilia is the most common severe hereditary hemorrhagic disorder. Both hemophilia A and B result from factor VIII and factor IX protein deficiency or dysfunction, respectively, and is characterized by prolonged and excessive bleeding after minor trauma or sometimes even spontaneously. Hemophilia A is more common than hemophilia B, representing 80–85% of the total hemophilia population.

Bleeding Disorder Agents will be considered for coverage when the following criteria are met:

Hemophilia A (Factor VIII Deficiency)

For initial authorization:

- 1. Member has diagnosis of Hemophilia A (congenital Factor VIII deficiency); AND
- 2. For Jivi, member must be 12 years of age or older; AND
- 3. Medication is being prescribed by or in consultation with a hematologist; AND
- Medication will be used for applicable situations listed in Table A or for Immune Tolerance Induction (ITI); AND
- 5. If request is for ITI, member must have severe hemophilia (factor level < 1%) with inhibitors (FVIII titre > 0.6 BU), and meet <u>one</u> of the following:
 - a. Inhibitor titre < 10 BU/mL or titre fails to fall below 10 BU/mL within a year;
 - b. Member is having severe or life-threatening bleeding;
 - c. Member is having frequent bleeding and is being considered for bypassing agent prophylaxis; AND
- 6. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review.
- **7. Dosage allowed:** Per package insert of individual drug. For ITI, dosages may range from 50 IU/kg three times weekly to 200 IU/kg daily depending on titre inhibitor levels.

If all the above requirements are met, the medication will be approved for 30 days for perioperative management or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

- 1. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes; AND
- 4. For ITI, chart notes have been provided to show <u>both</u> of the following:
 - a. Member continues to need ITI (e.g., inhibitor is detectable (> 0.6 BU), FVIII recovery < 66% of expected, FVIII half-life is < 7 hours); AND
 - b. Member has shown at least 20% decline in the inhibitor titre level since the previous approval.

If all the above requirements are met, the medication will be approved for an additional 6 months.

Hemophilia B (Factor IX Deficiency)

For initial authorization:

- 1. Member has diagnosis of Hemophilia B (congenital Factor IX deficiency); AND
- 2. For Ixnity, member must be 12 years of age or older; AND
- 3. For AlphaNine, member must be 17 years of age or older; AND
- 4. Medication is being prescribed by or in consultation with a hematologist; AND
- 5. Medication will be used for applicable situations listed in Table A or for Immune Tolerance Induction (ITI); AND
- 6. If request is for ITI, member must have inhibitors (FIX titre ≥ 0.3 BU) and prescriber must attest that benefit outweighs the risk of starting therapy; AND
- 7. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review.
- 8. Dosage allowed: Per package insert of individual drug.

If all the above requirements are met, the medication will be approved for 30 days for perioperative management or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

Wall the above requirements are met, the medication will be approved for an additional 6 months.

FEIBA (anti-inhibitor coagulant complex)

For *initial* authorization:

- 1. Member has a diagnosis of Hemophilia A or B with confirmed inhibitors (FVIII titre > 0.6 BU for hemophilia A or FIX titre ≥ 0.3 BU for hemophilia B); AND
- 2. Medication is being prescribed by or in consultation with a hematologist; AND
- 3. Medication will be used in <u>one</u> of the following situations:
 - a. On-demand treatment of acute bleeding episodes;
 - b. Perioperative management of bleeding;
 - c. Routine prophylaxis to prevent or reduce the frequency of bleeding episodes; AND
- 4. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 5. If member is using Hemlibra, must have a clinical reason why a recombinant activated factor VII (rFVIIa) such as NovoSevenRT or Sevenfact cannot be used.
- 6. Dosage allowed: Per package insert.

If member meets all the requirements listed above, the medication will be approved for 30 days for perioperative management or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Novoseven RT (Recombinant Factor VIIa)

For initial authorization:

1. Medication is being prescribed by or in consultation with a hematologist; AND



DNNOWED (California) is being used for the treatment of bleeding episodes OR perioperative management for <u>one</u> of the following diagnoses:

- a. Hemophilia A or B with confirmed inhibitors (FVIII titre > 0.6 BU for hemophilia A or FIX titre ≥ 0.3 BU for hemophilia B);
- b. Acquired hemophilia;
- c. Congenital Factor VII (FVII) deficiency;
- d. Glanzmann's Thrombasthenia <u>and</u> platelet transfusion was either ineffective or contraindicated; AND
- 3. Member's recent weight (kg), history of bleeds, and inhibitor status (if applicable) have been provided for review.
- 4. Dosage allowed: Per package insert.

If member meets all the requirements listed above, the medication will be approved for 30 days for perioperative management or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg), history of bleeds, and inhibitor status (if applicable) have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Sevenfact (Recombinant Factor VIIa)

For **initial** authorization:

- 1. Member is 12 years of age or older; AND
- 2. Member has a diagnosis of Hemophilia A or B with confirmed inhibitors (FVIII titre > 0.6 BU for hemophilia A or FIX titre ≥ 0.3 BU for hemophilia B); AND
- 3. Medication is being prescribed by or in consultation with a hematologist; AND
- 4. Medication will be used as on-demand treatment of acute bleeding episodes; AND
- 5. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review.
- 6. Dosage allowed: Per package insert.

If member meets all the requirements listed above, the medication will be approved for 6 months.

Note Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Hemlibra (emicizumab-kxwh)

For initial authorization:

- 1. Member has diagnosis of Hemophilia A, with congenital factor VIII deficiency confirmed by blood coagulation testing; AND
- 2. Medication is being prescribed by or in consultation with a hematologist; AND
- 3. Member's recent weight (kg), history of bleeds, and inhibitor status have been provided for review; AND
- 4. For member <u>with</u> factor VIII inhibitors, member must meet the following:
 - a. Chart notes with documented positive test for inhibitors (titer > 0.6 BU/mL [Bethesda unit per milliliter]); OR
- 5. For member <u>without</u> factor VIII inhibitors, member must have severe hemophilia A (Factor VIII level <1%) AND meet **one** of the following:
 - a. Poor and/or frequent venous access AND risk outweighs benefit for obtaining a port or an alternative route of administration;
 - b. Clinical documentation that prior prophylaxis with factor VIII (e.g., Advate, Adynovate, Eloctate, etc.) was ineffective for the prevention of bleeding episodes;
 - c. Prescriber attested that member is not a candidate for factor VIII and the clinical rationale is strongly supported by chart notes; AND
- 6. Bypassing agents (e.g., Feiba, NovoSeven RT, Sevenfact) are discontinued the day before starting Hemlibra (if applicable); AND
- 7. Prophylactic use of factor replacements are discontinued after loading dose period is finished.

Note: Factor VIII may be used as on-demand therapy for breakthrough bleeding.

8. Dosage allowed: 3 mg/kg subQ once weekly for the first 4 weeks, followed by a maintenance dose of 1.5 mg/kg once every week, OR 3mg/kg once every 2 weeks, OR 6 mg/kg every 4 weeks.

If member meets all the requirements listed above, the medication will be approved for 6 months.

Note: Approval will be for the lowest number of vials to achieve requested dosage.



- Member's recent weight in kilograms is documented on medication prior authorization request; AND
- 2. Chart notes have been provided showing that the member experienced a reduction in bleeding episodes compared to baseline.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Von Willebrand Disease (VWD)

For initial authorization:

- 1. Member has a diagnosis of Von Willebrand Disease (VWD); AND
- 2. For Vonvendi, member must be 18 years of age or older; AND
- 3. Medication is being prescribed by or in consultation with a hematologist; AND
- 4. Medication will be used for applicable situations listed in Table A; AND
- 5. Member has severe vWD (except Alphanate) OR Member has mild or moderate vWD and the use of desmopressin is known or suspected to be ineffective or contraindicated; AND
- 6. Member's recent weight (kg) and history of bleeds have been provided for review.
- 7. Dosage allowed: Per package insert of individual drug.

If member meets all the requirements listed above, the medication will be approved for 30 days for perioperative management, or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg) and history of bleeds have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Miscellaneous Factors - (Obizur, Coagadex, Corifact, Tretten, Fibryga, RiaSTAP)

- 1. For Obizur, member must be 18 years of age or older with a baseline anti-porcine factor VIII inhibitor titer less than 20 BU; AND
- 2. Member has an FDA approved indication for use as listed in Table A; AND
- 3. Medication is being prescribed by or in consultation with a hematologist; AND
- 4. Member's recent weight (kg), history of bleeds, and fibrinogen level (if available, Fibryga and RiaSTAP only) have been provided for review.
- 5. Dosage allowed: Per package insert.

If member meets all the requirements listed above, the medication will be approved for 30 days for perioperative management or 6 months for all other cases.

Note: Approval will be for requested dosage, but no more than +/- 5-10% of prescribed assays.

For reauthorization:

- 1. Member's recent weight (kg) and history of bleeds have been provided for review; AND
- 2. Member has experienced positive clinical response from the use of factor; AND
- 3. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.

If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

Anti-Clotting Products - (ATryn, Ceprotin)

For *initial* authorization:

- 1. Member has an FDA approved indication for use as listed in Table A; AND
- 2. Medication is being prescribed by or in consultation with a hematologist; AND
- 3. Member's recent weight (kg) and chart notes supporting diagnosis have been provided for review.
- 4. Dosage allowed: Per package insert.

If member meets all the requirements listed above, the medication will be approved for 6 months.

For reauthorization:

- 1. Member's recent weight (kg) and documentation of positive clinical response have been submitted for review; AND
- 2. If request is for a dosage increase, provider must submit a clinical rationale supported by chart notes.



If member meets all the reauthorization requirements above, the medication will be approved for an additional 6 months.

<u>Table A</u>

Drug Class	Drug Name	Indications	J Code
Recombinant Factor VIII (Hemophilia A)	Advate	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7192
	Afstyla	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7210
	Kovaltry	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7211
	Novoeight	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7182
	Nuwiq	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7209
	Recombinat e	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7192
	Xyntha	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7185
Extended Half-Life Recombinant Factor VIII (Hemophilia A)	Adynovate	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7207
	Eloctate	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7205

CareSource	Esperoct	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7204
	Jivi	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7208
Plasma-Derived Factor	Hemofil M	Prevention and control of hemorrhagic episodes	J7190
VIII (Hemophilia A)	Koate	Prevention and control of bleeding episodes	J7190
Non-Factor (Hemophilia A)	Hemlibra	 Routine prophylaxis to prevent or reduce the frequency of bleeding episodes in adults and pediatric patietns with hemophilia A with or without factor VIII inhibitors 	J7170
Recombinant Factor IX (Hemophilia B)	Benefix	 Hemophilia B (congenital factor IX deficiency) for: On-demand treatment and control of bleeding episodes Perioperative management of bleeding Routine prophylaxis to reduce the frequency of bleeding episodes 	J7195
	lxinity	 Adults and children ≥ 12 years of age with hemophilia B for: On-demand treatment and control of bleeding episodes Perioperative management Adults with hemophilia B for: Routine prophylaxis to reduce the frequency of bleeding episodes 	J7195
	Rixubis	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7200
Extended Half-Life Recombinant Factor IX (Hemophilia B)	Alprolix	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7201
	Idelvion	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	J7202
	Rebinyn	 On-demand treatment and control of bleeding episodes Perioperative management Prevention and control of bleeding episodes 	J7203
Plasma-Derived Factor IX (Hemophilia B)	AlphaNine SD	Prevention and control of bleeding episodes	J7193
Factor IX Complex (Hemophilia B)	Profilnine SD	Prevention and control of bleeding episodes	J7194

Care Source			
Txi nnovations	Alphanate	 Control and prevention of bleeding in patients with hemophilia A Surgical and/or invasive procedures in adult and pediatric patients with von Willebrand Disease in whom desmopressin (DDAVP) is either ineffective or contraindicated. Not indicated for patients with severe VWD (Type 3) undergoing major surgery 	J7186
		Hemophilia A	J7187
		Treatment and prevention of bleeding in adults	
von Willebrand	Humate-P	Von Willebrand disease	
Factor/Coagulation Factor VIII Complex (Human)		 Treatment of spontaneous and trauma-induced bleeding episodes Perioperative management 	
		Children and adults with von Willebrand disease for:	J7183
		 On-demand treatment and control of bleeding episodes Perioperative management 	
	Wilate	Adolescents and adults with hemophilia A for:	
		 On-demand treatment and control of bleeding episodes Routine prophylaxis to reduce the frequency of bleeding episodes 	
		Adults with von Willebrand disease for:	J7179
vonWillebrand Recombinant Factor	Vonvendi	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes in patients with severe Type 3 von Willebrand disease receiving on-demand therapy. 	
		Hemophilia A and B with inhibitors for:	J7198
	Feiba	 On-demand treatment and control of bleeding episodes Perioperative management Routine prophylaxis to reduce the frequency of bleeding episodes 	
Bypassing Agent	NovoSeven RT	 Treatment of bleeding episodes and peri-operative management in adults and children with hemophilia A or B with inhibitors Congenital Factor VII (FVII) deficiency Glanzmann's thrombasthenia with refractoriness to platelet transfusions, with or without antibodies to platelets Treatment of bleeding episodes and peri-operative management in adults with acquired hemophilia 	J7189
	SevenFact	 On-demand treatment of bleeding episodes in adults and adolescents with hemophilia A or B with inhibitors 	J7212

Care Source			
Ext nnovations	Obizur	 On-demand treatment of bleeding episodes in adults with acquired hemophilia A 	J7188
	Coagadex	 Hereditary Factor X deficiency for: Routine prophylaxis to reduce the frequency of bleeding episodes On-demand treatment and control of bleeding episodes Perioperative management of bleeding in patients with mild and moderate hereditary Factor X deficiency 	J7175
Miscellaneous Factor	Corifact	Routine prophylactic treatment and peri-operative management of surgical bleeding in patients with congenital Factor XIII deficiency	J7180
	Tretten	 Prophylaxis of bleeding in patients with congenital Factor XIII A-Subunit deficiency 	J7181
	Fibryga	 Treatment of acute bleeding episodes in adults and children with congenital fibrinogen deficiency, including afibrinogenemia and hypofibrinogenemia 	J7177
	RiaSTAP	 Treatment of acute bleeding episodes in adults and children with congenital fibrinogen deficiency, including afibrinogenemia and hypofibrinogenemia 	J7178
Antithrombin	ATryn	• <u>Prevention</u> of peri-operative and peri-partum thromboembolic events in patients with hereditary antithrombin deficiency	J7196
Protein C Concentrate	Ceprotin	 Treatment and prevention of venous thrombosis and purpura fulminans in patients with severe congenital Protein C deficiency 	J2724

CareSource considers Bleeding Disorder Agents not medically necessary for the treatment of conditions that are not listed in this document. For any other indication, please refer to the Off-Label policy.

DATE	ACTION/DESCRIPTION	
12/15/2016	Policy issued.	
06/12/2018	Policy placed in a new format. Initial authorization length increased to 6 months.	
10/05/2018	New drug Jivi added to the list of antihemophilic agents.	
08/06/2019	New drug Esperoct added to the list of antihemophilic agents.	
10/19/2019	Policy updated to include Hemlibra criteria.	
08/01/2020	Hemlibra criteria updated to include hematologist. Requirement changed for members without Factor VIII inhibitors to align better with current practice and clinical trials.	
04/02/2021	Title updated to encompass all bleeding disorder products. Table A created for all products, indications, and J codes. Added separate criteria set for	

	CareSource	
Y		hemophilia A, hemophilia B, Feiba, NovoSevenRT, Sevenfact, Von Willebrand Disease, miscellaneous factors, and anti-clotting products (previously only had one set of criteria for hemophilia factor replacement). Updated Hemlibra's weight requirement, reauth criteria, and dosage allowed section. Added approval instruction note for the factors and Hemlibra. Updated initial approval duration for all agents.
	09/13/2022	Annual Review. Transferred to new template. Updated references. Removed discontinued medications from policy (Helixate, Kogenate). Updated Table A indications (VonVendi). Added baseline titer requirements for Obizur.

References:

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- 1. Srivastava A, Santagostino E, Dougall A, et al. WFH Guidelines for the Management of Hemophilia, 3rd edition. *Haemophilia*. 2020;26 Suppl 6:1-158. doi:10.1111/hae.14046
- 2. Advate [package insert]. Westlake Village, CA: Baxalta US Inc; Dec 2018.
- 3. Adynovate [package insert]. Westlake Village, CA: Baxalta US Inc; June 2021.
- 4. Afstyla [package insert]. Kankakee, IL: CSL Behring LLC; April 2021.
- 5. Alphanate [package insert]. Los Angeles, CA: Grifols Biologicals Inc.; March 2021.
- 6. Alphanine SD [package insert]. Los Angeles, CA: Grifols Biologicals Inc.; March 2017.
- 7. Alprolix [package insert]. Cambridge, MA: Biogen Inc.; October 2020.
- 8. ATryn [package insert]. Framingham, MA: rEVO Biologics, Inc.; December 2013.
- 9. Benefix [package insert]. Philadelphia, PA: Wyeth Pharmaceuticals Inc.; Sept 2021.
- 10. Ceprotin [package insert]. Lexington, MA: Baxalta US Inc.; August 2021.
- 11. Coagadex [package insert]. Durham, NC: Bio Products Laboratory USA, Inc.; Nov 2020.
- 12. Corifact [package insert]. Kankakee, IL: CSL Behring LLC; December 2019.
- 13. Eloctate [package insert]. Waltham, MA: Bioverativ Therapeutics Inc.; Dec 2020.
- 14. Esperoct [package insert]. Plainsboro, NJ: Novo Nordisk Inc.; August 2022.
- 15. Feiba [package insert]. Westlake Village, CA: Baxter Healthcare Corporation.; Feb 2020.
- 16. Fibryga [package insert]. Paramus, NJ: Octapharma USA, Inc. December 2020.
- 17. Hemlibra [package insert]. South San Francisco, CA: Genentech, Inc.; June 2022
- 18. Hemofil M [package insert]. Lexington, MA: Baxalta US Inc.; June 2018.
- 19. Baxalta US Inc. Lexington, MA Humate-P [package insert]. Kankakee, IL: CSL Behring LLC.; June 2020.
- 20. Idelvion [package insert]. Kankakee, IL: CSL Behring LLC.; July 2021.
- 21. Ixinity [package insert]. Berwyn, PA: Aptevo BioTherapeutics LLC; March 2022.
- 22. Jivi [package insert]. Whippany, NJ: Bayer HealthCare LLC; August 2018.
- 23. Koate-DVI [package insert]. Los Angeles, CA: Grifols Biologicals Inc.; Aug 2012.
- 24. Kovaltry [package insert]. Whippany, NJ: Bayer HealthCare LLC; October 2021.
- 25. Novoeight [package insert]. Plainsboro, NJ: Novo Nordisk Inc.; June 2018.
- 26. Novoseven RT [package insert]. Bagsvaerd, Denmark: Novo Nordisk A/S.; July 2020.
- 27. NuwiQ [package insert]. Hoboken, NJ: Octapharma USA Inc.; June 2021.
- 28. Obizur [package insert]. Westlake Village, CA: Baxter Healthcare Corporation.; Sept 2021
- 29. Profilnine [package insert]. Los Angeles, CA: Grifols Biologicals Inc.; Aug 2010.
- 30. Rebinyn [package insert]. Plainsboro, NJ: Novo Nordisk Inc.; August 2022.
- 31. Recombinate [package insert] Westlake Village, CA: Baxter Healthcare Corporation.; June 2018.
- 32. RiaSTAP [package insert] Kankakee, IL: CSL Behring LLC.; July 2021.
- 33. Rixubis [package insert]. Westlake Village, CA: Baxalta US Inc.; June 2020.
- 34. Sevenfact [package insert]. Les Ulis, France. HEMA Biologics. April 2020.
- 35. Tretten [package insert]. Bagsvaerd, Denmark: Novo Nordisk A/S.; June 2020.
- 36. VonVendi [package insert]. Westlake Village, CA: Baxalta US Inc.; Jan 2022.
- 37. Wilate [package insert]. Hoboken, NJ: Octapharma USA Inc.; March 2020.
- 38. Xyntha [package insert]. Philadelphia, PA: Wyeth Pharmaceuticals Inc.; July 2022.
- 39. Oldenburg J. Optimal treatment strategies for hemophilia: achievements and limitations of current prophylactic regimens. *Blood*. 2015;125(13):2038-2044.
- 40. Hay CR. Immune tolerance induction: current status. Hematology Education. 2013;7:87-92

AD DIMICHEE DM: Hoots WK, Pipe SW, Rivard GE, Santagostino E. International workshop on immune tolerance induction: consensus recommendations. *Haemophilia*. 2007;13 Suppl 1:1-22.

- 42. Brackmann HH, White GC 2nd, Berntorp E, Andersen T, Escuriola-Ettingshausen C. Immune tolerance induction: What have we learned over time?. *Haemophilia*. 2018;24 Suppl 3:3-14.
- 43. Valentino LA, Kempton CL, Kruse-Jarres R, et al. US Guidelines for immune tolerance induction in patients with haemophilia a and inhibitors. *Haemophilia*. 2015;21(5):559-567.
- 44. Mahlangu J, Oldenburg J, Paz-Patel I, et al. Emicizumab Prophylaxis in Patients Who Have Hemophilia A without Inhibitors. N Engl J Med. 2018 Aug 30;379(9):811-822. doi: 10.1056/NEJMoa1803550.
- 45. Ng HJ, Lee LH. Recombinant activated clotting factor VII (rFVIIa) in the treatment of surgical and spontaneous bleeding episodes in hemophilic patients. *Vasc Health Risk Manag.* 2006;2(4):433–440. doi:10.2147/vhrm.2006.2.4.433.
- 46. Pipe S. Emicizumab subcutaneous dosing every 4 weeks is safe and efficacious in the control of bleeding in persons with haemophilia A with and without inhibitors Results from the phase 3 HAVEN 4 study. Presented at the World Federation of Hemophila World Congress in Glasgow, Scotland; May 20–24, 2018. WFH Oral Presentation.
- 47. Thornburg CD. How I approach: Previously untreated patients with severe congenital hemophilia A. Pediatric blood & cancer. 2018;65(12):e27466. doi:10.1002/pbc.27466.
- 48. Yada K, Nogami K. Spotlight on emicizumab in the management of hemophilia A: patient selection and special considerations. J Blood Med. 2019;10:171-181. Published 2019 Jul 2. doi:10.2147/JBM.S175952.
- 49. National Hemophilia Foundation (NHF). Recommendation on the Use and Management of Emicizumab-kxwh (Hemlibra) for Hemophilia A with and without Inhibitors. December 6, 2018.
- 50. Connell NT, Flood VH, Brignardello-Petersen R, et al. ASH ISTH NHF WFH 2021 guidelines on the management of von Willebrand disease. *Blood Adv*. 2021;5(1):301-325. doi:10.1182/bloodadvances.2020003264

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