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Subject: Clotting Factors and Coagulant Blood Products

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Dosage/ Administration	Position Statement	Billing/Coding	Reimbursement	Program Exceptions	<u>Definitions</u>
Related Guidelines	Other	References	<u>Updates</u>		

DESCRIPTION:

Hemostasis is regulated by a series of complex procoagulant and anticoagulant actions that involve the vessel wall, platelets, and the coagulation and fibrinolytic systems. An imbalance in any direction can result in coagulation disorders and specifically in a bleeding disorder when there is a deficiency of coagulation factors. Coagulation factor deficiencies present more frequently as an acquired deficiency such as disseminated intravascular coagulation (DIC) or vitamin K deficiency; inherited deficiencies are rarer, with the most common being deficiencies of factor VIII (hemophilia A) and factor IX (hemophilia B). Treatment of both acquired and inherited deficiencies involve factor replacement using either recombinant or purified plasma-derived products.

Rarely, individuals develop neutralizing antibodies, or inhibitors, to factor VIII and IX resulting in a decreased clinical response to factor replacement. Inhibitors are measured with the Bethesda assay with titers reported in Bethesda units (BU). One BU is the amount of inhibitor needed to inactivate half of factor VIII or IX in a mixture of normal and inhibitor-containing plasma. Patients with inhibitors are classified as either low responders (<5 BU/mL) or high responders (≥5 BU/mL). Administering high and more frequent doses of factor products may effectively manage bleeding episodes in low responders, while high responders should be managed with agents that bypass the factor to which the antibody is directed.

A brief overview of covered clotting factors and coagulant blood products is provided in Table 1.

TABLE 1

Review of clotting factor and coagulant blood products

Product	Notes			
Anti-inhibitor Coagulant	Bypassing agent derived from human plasma			
Complex	• Contains factors II, VIIa, IX, and X			
Feiba	Labeled with units of factor VIII bypassing activity			
	 Decreases activated partial thromboplastin time (aPTT) 			
	 Manufacturer suggests use as a first-line agent if inhibitor titer is greater than 10 BU/mL and second-line agent if inhibitor titer is 5-10 BU/mL 			
	Inadequate response to treatment may result from an abnormal platelet count or impaired platelet function			
Fibrinogen concentrate	Derived from human plasma			
Fibryga, RiaSTAP	• Factor I is a substrate for thrombin, factor XIIIa, and plasmin			
Factor VIIa, recombinant NovoSeven, NovoSeven RT,	Bypassing agent generated from cloned human factor VII expressed in baby hamster kidney cells			
SevenFact	Contains only activated factor VIIa			
	• Short dosing interval (half-life: 3 hours)			
Factor VIII	Products differ based on purity and source of factor VIII			
Human: Hemofil M, Monoclate-P	 Facilitates the activation of factor X causing the formation of thrombin and fibrin 			
Recombinant: Advate, Helixate FS, Kogenate FS, Kovaltry, Novoeight, Nuwiq, Recombinate, ReFacto, Xyntha	Factor VIII potency differs by product			
Factor VIII/VWF complex	Derived from human plasma			
Alphanate, Humate P, Koate- DVI, Octanate, Wilate	 Factor VIII facilitates the activation of factor X causing the formation of thrombin and fibrin 			
	 Von Willebrand factor promotes platelet aggregation and adhesion to damaged vascular endothelium 			
	Factor VIII potency differs by product			
von Willebrand factor, recombinant	Purified recombinant von Willebrand factor (rVWF) expressed in Chinese Hamster Ovary (CHO) cells			
Vonvendi	Acts to promote hemostasis by mediating platelet adhesion to damaged vascular sub-endothelial matrix (e.g. collagen) and			

	platelet aggregation, and as a carrier protein for factor VIII, protecting it from rapid proteolysis
Antihemophilic factor porcine, recombinant	Derived from baby hamster kidney cell line which secrete recombinant porcine factor VIII in cell culture medium
Obizur	• Replaces the inhibited factor VIII needed for effective hemostasis and normalizes the aPTT over the effective dosing period.
	 Factor VIII activity, not aPTT, should not be used as a measure of efficacy during treatment
Antihemophilic factor (recombinant), single chain Afstyla	 Uses a covalent bond to form a single polypeptide-chain (one structural entity) to improve the stability of factor VIII and provide longer-lasting factor VIII activity
Antihemophilic factor Fc fusion protein, recombinant (rFVIIIFc)	Antihemophilic factor (Factor VIII) is covalently linked to the Fc domain of human immunoglobulin G1
Eloctate	Binding of Fc domain delays degradation to increase circulating half-life of factor VIII
Antihemophilic factor- recombinant, fc-vwf-xten fusion protein-ehtl	
Altuviiio	
Antihemophilic factor (recombinant), glycopegylatedexei	
Esperoct	
Antihemophilic factor pegylated, recombinant	Pegylated form of recombinant antihemophilic factor (Factor VIII)
Adynovate	 Exhibits an extended terminal half-life through pegylation of the parent molecule, which reduces binding to the physiological factor VIII clearance receptor (LRP1)
Antihemophilic factor (recombinant) pegylated-aucl	Site-specifically PEGylated recombinant antihemophilic factor that temporarily replaces the missing coagulation Factor VIII
Jivi	 The site-specific PEGylation in the A3 domain reduces binding to the physiological Factor VIII clearance receptors resulting in an extended half-life and increased AUC
Emicizumab-kxwh Hemlibra	Humanized monoclonal modified IgG4 antibody with a bispecific antibody structure binding factor IXa and factor X
Hemilioru	

	Bridges factor IX and factor X to restore the function of missing factor VIII that is needed for effective hemostasis
Factor IX Human: AlphaNine SD,	BeneFIX and RIXUBIS are produced in a Chinese hamster ovary cell line
Mononine	Mononine is purified with a murine monoclonal antibody
Recombinant: BeneFIX, RIXUBIS, Ixinity	 Combines with factor VIII to activate factor X (factor X converts prothrombin to thrombin; thrombin converts fibrinogen to fibrin clot)
Factor IX complex	Derived from human plasma
Bebulin, Profilnine SD	 Contains varying concentrations of factors II, VII, and X (in addition to factor IX)
Factor IX albumin fusion protein, recombinant	Recombinant factor IX molecule is genetically fused to recombinant albumin
Idelvion	• Fusing to albumin prolongs the half-life of factor IX
Factor IX Fc fusion protein, recombinant	Human coagulation factor IX is covalently linked to the Fc domain of human immunoglobulin G1
Alprolix	 Binding of Fc domain delays degradation to increase circulating half-life of factor IX
Factor IX GlycoPEGylated, recombinant	Recombinant factor IX molecule is conjugated to a polyethylene glycol molecule
Rebinyn	 Conjugating to polyethylene glycol prolongs the half-life of factor IX
Coagulation Factor X, human	Derived from human plasma
Coagadex	 Factor X is an inactive zymogen, which can be activated by Factor IXa (via the intrinsic pathway) or by Factor VIIa (via the extrinsic pathway)
Factor XIII	• Circulates in the blood and is found in platelets, macrophages, and monocytes
Human: Corifact Recombinant: Tretten	 Promotes cross-linking of fibrin during the coagulation process, and protects the newly formed clot from fibrinolysis

POSITION STATEMENT:

Initiation and continuation of a clotting factor or coagulant blood product **meets the definition of medical necessity** when all of the following criteria are met:

- Member has seen a board-certified hematologist or hematologist-oncologist and that physician
 has performed a complete hematologic and musculoskeletal assessment in the past 12 months
 documentation from medical record must be provided
- Clotting factor or coagulant blood product is prescribed by a board-certified hematologist or hematologist-oncologist
- 3. Factor replacement protocol (including dosing for both acute and prophylactic management) is provided
- 4. Factor replacement protocol (including dosing for both acute and prophylactic management) has been developed or evaluated by a board-certified hematologist or hematologist-oncologist within the past 12 months documentation from the medical record must be provided
- 5. Member maintains a treatment log documenting any bleeds and required treatment for 12 consecutive months
 - a. Hemlibra requests a copy of the treatment log with at least 12 months of tracking bleeds must be submitted (6 months of data will be allowed if initiating therapy)
 - b. Long-acting or extended half-life factor VIII and IX products a copy of the treatment log with at least 12 months of tracking bleeds must be submitted (6 months of data will be allowed if initiating therapy)
 - c. All other clotting factors and coagulant blood products a copy of the treatment log with at least 12 months of tracking bleeds must be submitted for continuation
- 6. Member meets product-specific criteria outlined in Table 2.

TABLE 2

Criteria for use of clotting factors and coagulant blood products¹

Product	Required Criteria (ALL must be met)	Indication	Maximum Dose	Maximum Dispensed Quantity
Anti-inhibitor Coagulant Complex Feiba	 Member is diagnosed with one of the following: a. Hemophilia A with high-titer factor VIII inhibitors (≥ 5 Bethesda units [BU]) b. Hemophilia B with high-titer factor IX inhibitors (≥ 5 Bethesda units [BU]) 	Treatment of acute bleeding episode Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	200 units/kg/day 100 units/kg x 1 dose	5 doses 1 dose/procedure

	c. Acquired inhibitors (≥ 5 Bethesda units [BU]) to factors VIII, XI, and XII 2. Indication-specific dose and quantity are not exceeded Approval duration: 1 year	Routine prophylaxis of bleeding	85 units/kg every other day	15 doses/30 days
Factor VIIa, recombinant NovoSeven, NovoSeven RT	 Member is diagnosed with one of the following: Hemophilia A with high-titer factor VIII inhibitors (≥ 5	Treatment of acute bleeding episode	mcg/kg/dose in adults or 150 mcg/kg/dose in children	5 doses
	high-titer factor IX inhibitors (≥ 5 Bethesda units [BU]) 2. Indication-specific dose and quantity are not exceeded Approval duration: 1 year	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	mcg/kg/dose in adults or 150 mcg/kg/dose in children	1 dose/procedure
	 Member is diagnosed with acquired hemophilia Indication-specific dose and quantity are not exceeded 	Treatment of acute bleeding episode	90 mcg/kg/dose	5 doses
	Approval duration: 1 year	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	90 mcg/kg/dose	1 dose/procedure
	Member is diagnosed with a congenital factor VII deficiency	Treatment of acute bleeding episode	30 mcg/kg/dose	5 doses
	Indication-specific dose and quantity are not exceeded Approval duration: 1 year	Prophylaxis of post-operative bleeding ² – documentation of	30 mcg/kg/dose	1 dose/procedure

		planned procedure must be provided		
	Member is diagnosed with Glanzmann's thrombasthenia	Treatment of acute bleeding episode	90 mcg/kg/dose	5 doses
	Indication-specific dose and quantity are not exceeded			
	Approval duration: 1 year	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	90 mcg/kg/dose	1 dose/procedure
Factor VIIa, recombinant	Member is diagnosed with one of the following:	Treatment of acute bleeding episode	1 dose,	5 doses (1 dose of 225 mcg/kg,
SevenFact	a. Hemophilia A with high-titer factor VIII inhibitors (≥ 5Bethesda units [BU])		followed by 75 mcg/kg as needed	4 doses of 75 mcg/kg)
	b. Hemophilia B with high-titer factor IX inhibitors (≥ 5 Bethesda units [BU])		Total daily doses not to exceed 900	
	Indication-specific dose and quantity are not exceeded		mcg/kg.	
	Approval duration: 1 year			
Factor VIII	Member is diagnosed with	Treatment of acute		5 doses
ivi, ivioliociate-r	hemophilia A 2. Member meets ONE of the following:	bleeding episode	IU/kg/dose (100 IU/kg/dose if	
Recombinant: Advate, Helixate FS, Kogenate FS, Kovaltry,	 Endogenous factor VIII is less than or equal to 1 IU/dL (1%) 		inhibitor titers are less than 10 Bethesda	
Novairy, Novoeight, Nuwiq, Recombinate, ReFacto, Xyntha	 b. Endogenous factor VIII is less than or equal to 40 IU/dL (40%) AND either of the following: 		units/mL)	
Factor VIII/VWF complex	i. Indication for use is treatment of	Prophylaxis of post-operative bleeding ² –	50 IU/kg/dose	1 dose/procedure

Alphanate, Humate P, Koate-DVI, Octanate	acute bleeding episode ii. Indication for use is prophylaxis of bleeding and member has documented history of 2 or more	Routine 50 IU/kg bleeding three per v	g/dose days e times week or y other
	bleeds into large joints (i.e., ankles, knees, hips, elbows, shoulders) c. Indication for use is immune tolerance induction therapy 3. Indication-specific dose and quantity are not exceeded Approval duration: 1 year		g/day member specific protocol
	 Member is diagnosed with von Willebrand disease Member meets ONE of the following: 		5 doses g/dose (Humate P) mate P)
	a. Use of desmopressin is known or suspected to be ineffective or contraindicated b. Member was previously approved for requested product by another health plan —	bleeding ² – (Alpl documentation of planned procedure 75	g/dose dose/procedure hanate, nate P); g/dose if < 18

	documentation of a recent (within 90 days prior to authorization request) health planpaid claim for the requested product must be provided 3. Indication-specific dose and quantity are not exceeded Approval duration: 1 year		years (Alphanate)	
Factor VIII/VWF complex Wilate	 Member is diagnosed with von Willebrand disease AND one the following: Member meets ONE of the following: Use of desmopressin is known or suspected to be ineffective or contraindicated Member was previously approved for requested product by another health plan – documentation of a recent (within 90 days prior to authorization request) health planpaid claim for the requested product must be provided Indication-specific dose and quantity are not exceeded 	Treatment of acute bleeding episode, including spontaneous bleeding or trauma induced bleeding	60 IU/kg/dose	5 doses
von Willebrand factor, recombinant	Member is diagnosed with von Willebrand disease AND one the following:	Treatment of acute bleeding episode, including	80 IU/kg/dose	5 doses
Vonvendi	Member meets ONE of the following:	spontaneous		

	a. Use of desmopressin is known or suspected to be ineffective or contraindicated b. Member was previously approved for requested product by another health plan – documentation of a recent (within 90 days prior to authorization request) health planpaid claim for the requested product must be provided 3. Indication-specific dose and quantity are not exceeded	bleeding or trauma induced bleeding		
Antihemophilic factor porcine, recombinant Obizur	 Approval duration: 1 year Member is diagnosed with acquired hemophilia A Indication-specific dose and quantity are not exceeded Approval duration: 1 year 	Treatment of acute bleeding episode, including spontaneous bleeding or trauma induced bleeding	IU/kg/dose	5 doses
Long-acting or extended half-life factor VIII products: Antihemophilic factor (recombinant), single chain (Afstyla)	 Initiation of therapy: Member is diagnosed with hemophilia A Member does not have inhibitors to factor VIII Member meets ONE of the following: a. Endogenous factor VIII is less than or equal to 1 IU/dL (1%) – laboratory 	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	50 IU/kg/dose 50 IU/kg/dose Eloctate only: 60 IU/kg/dose	5 doses Altuviiio: 2 doses 1 dose/procedure

			documentation must	Routine	Afstyla: 50	Afstyla: 12
			be provided	prophylaxis of	IU/kg/dose	doses/30 days
Antihemophilic			·	bleeding	three times	25555,55 44,5
factor		b.	Endogenous factor	Diccums	per week	
pegylated,			VIII is less than or		hei week	A al + -
recombinant			equal to 40 IU/dL			Adynovate,
(Adynovate)			(40%) AND member has documented			Esperoct: 14
			history of 2 or more		Adynovate,	doses/30 days
			bleeds into large		Esperoct: 50	
Antihemophilic			joints (i.e., ankles,		IU/kg/dose	
factor			knees, hips, elbows,		two times	Jivi: 9 doses/30
(recombinant),			shoulders) –		per week	days
glycopegylated-			laboratory			
exei (Esperoct)			documentation and			
exer (Laperoct)			documentation from		Jivi: 60	Eloctate: 10
			the medical record		IU/kg/dose	doses/30 days
Antibomorbili			must be provided		two times	
Antihemophilic	4.	Require	ed if requested		per week OR	
factor	۳.	•	t is being used for		45 to 60	Altuviiio: 4
(recombinant)		•	e prophylaxis of		IU/kg/dose	doses/30 days
pegylated-aucl			ng (NOT treatment of		every 5 days	
(Jivi)			leeding or prophylaxis			
			-operative bleeding) –			
		•	entation from the		Eloctate: 65	
Antihemophilic		medica	Il record must be		IU/kg/dose	
factor Fc fusion		provide	ed:		every three	
protein,		a.	The member has had		to five days	
recombinant		u.	clinically evident			
(rFVIIIFc)			bleeding (defined as:			
(Eloctate)			1 or more episodes of		Altuviiio:	
			spontaneous		50	
			bleeding into a joint			
Antihemophilic			or into the central		IU/kg/dose	
factor-			nervous system; or 4		weekly	
recombinant,			or more episodes of			
fc-vwf-xten			soft tissue bleeding in			
fusion protein-			an 8 week period)			
ehtl			after a two month			
			trial of at least one of			
Altuviiio			the following factor			
			VIII products when			
			used as part of a			
			factor replacement			
			protocol for			
	<u> </u>		prophylactic			

management of
bleeding:

- i. Human (plasmaderived) Factor VIII: Hemofil M, Monoclate-P
- ii. Recombinant
 Factor VIII:
 Advate,
 Helixate FS,
 Kogenate FS,
 Kovaltry,
 Novoeight,
 Nuwiq,
 Recombinate,
 ReFacto,
 Xyntha
- 5. Indication-specific dose and quantity are not exceeded

Approval duration: 6 months

Continuation of therapy:

- Member meets Florida Blue's initial criteria or was previously approved by another health plan
- Member demonstrates a beneficial response according to indication for use – bleed log must be provided:
 - a. Treatment of acute bleeding episode:
 Bleeding episode controlled with 2 or fewer injections
 - b. Routine prophylaxis of bleeding: 75% reduction in ABR

	Indication-specific dose and quantity are not exceeded Approval duration: 1 year			
Emicizumab- kxwh <i>Hemlibra</i>	Initiation of therapy:1. Member is diagnosed with hemophilia A2. Member meets ONE of the following:	Routine prophylaxis of bleeding	Initial dose: 3 mg/kg once weekly for 4 weeks	Initial weight- based limits – applicable to first 28 days of therapy ONLY:
	a. Member has hightiter inhibitors to factor VIII (≥ 5 Bethesda units [BU]) AND use will not be in combination with immune tolerance therapy (ITT) — laboratory documentation must be provided b. Member's endogenous factor VIII is less than or equal to 1 IU/dL (1%) AND member is transitioning from a prophylactic factor replacement regimen — laboratory documentation must be provided		Maintenance dose: 1.5 mg/kg once weekly	 15 kg or less: four 30 mg/1 mL vials (max 4 mL) > 15 kg and ≤ 20 kg: four 60 mg/0.4 mL vials (max 1.6 mL) > 20 kg and ≤ 35 kg: four 105 mg/0.7 mL vials (max 2.8 mL) > 35 kg and ≤ 50 kg: four 150 mg/mL vials (max 4 mL)
	c. Member's endogenous factor VIII is greater than 1 IU/dL (1%) but less than or equal to 5 IU/dL (5%) AND the provider has determined that the patient has a bleed history that simulates severe hemophilia A AND member is transitioning from a prophylactic factor			 > 50 kg and ≤ 60 kg: twelve 60 mg/0.4 mL vials (max 4.8 mL) > 60 kg and ≤ 70 kg: eight 105 mg/0.7 mL vials (max 5.6 mL)

- replacement regimen
 laboratory
 documentation and
 documentation from
 the medical record
 must be provided
- d. Member's endogenous factor VIII is greater than 5 IU/dL (5%) and less than or equal to 40 IU/dL (40%) AND member has documented history of 2 or more bleeds into large joints (i.e., ankles, knees, hips, elbows, shoulders) **AND** the member has had clinically evident bleeding (defined as: 1 or more episodes of spontaneous bleeding into a joint or into the central nervous system; or 4 or more episodes of soft tissue bleeding in an 8 week period) after a two month trial of at least one of the following factor VIII products when used as part of a factor replacement protocol for prophylactic management of bleeding – laboratory documentation and documentation from the medical record must be provided:
 - i. Human (plasmaderived) Factor VIII:

- > 70 kg and ≤ 80 kg: sixteen 60 mg/0.4 mL (max 6.4 mL)
- > 80 kg and
 ≤ 100 kg:
 eight 150
 mg/mL vials
 (max 8 mL)
- > 100 kg and ≤ 105 kg: twelve 105 mg/0.7 mL vials (max 8.4 mL)
- > 105 kg and ≤ 120 kg: twentyfour 60 mg/0.4 mL vials (max 9.6 mL)
- > 120 kg and ≤ 140 kg: sixteen 105/0.7 mL vials (max 11.2 mL)
- > 140 kg and ≤ 150 kg: twelve 150 mg/mL vials (max 12 mL)
- > 150 kg and ≤ 160 kg: thirtytwo 60 mg/0.4 mL vials (max 12.8 mL)

- Hemofil M, Monoclate-P
- ii. Recombinant
 Factor VIII:
 Advate,
 Adynovate,
 Afstyla,
 Eloctate,
 Helixate FS,
 Kogenate FS,
 Kovaltry,
 Novoeight,
 Nuwiq,
 Recombinate,
 ReFacto,
 Xyntha
- e. Member was previously approved for Hemlibra by another health plan documentation of a recent (within 90 days prior to authorization request) health planpaid claim Hemlibra must be provided
- 3. Indication-specific dose and quantity are not exceeded

Approval duration: 6 months

Continuation of therapy:

- Member was previously approved by Florida Blue OR the member has previously met all initiation criteria
- 2. Member is diagnosed with hemophilia A
- 3. Member demonstrates a beneficial response to treatment with Hemlibra as evidenced by a reduction in number of bleeding events or

- > 160 kg and ≤ 175 kg: twenty 105 mg/0.7 mL vials (max 14 mL)
- > 175 kg and ≤ 180 kg: thirtysix 60 mg/0.4 mL vials (max 14.4 mL)
- > 180 kg and ≤ 200 kg: sixteen 150 mg/mL vials (max 16 mL)

Maintenance weight-based limits per 28 days:

- 20 kg or less: four 30 mg/1 mL vials (max 4 mL)
- > 20 kg and ≤ 40 kg: four 60 mg/0.4 mL vials (max 1.6 mL)
- > 40 kg and ≤ 70 kg: four 105 mg/0.7 mL vials (max 2.8 mL)

4. Ap	stabilization of disease – documentation from the treatment log and/or medical record must be provided Indication-specific dose and quantity are not exceeded oproval duration: 1 year	 > 70 kg and ≤ 80 kg: eight 60 mg/0.4 mL vials (max 3.2 mL) > 80 kg and ≤ 100 kg: four 150 mg/1 mL vials (max 4 mL)
		• > 100 kg and ≤ 120 kg: twelve 60 mg/0.4 mL (max 4.8 mL) OR four 60 mg/0.4 mL vials (max 1.6 mL) plus four 105 mg/0.7 mL vials (max 2.8 mL)
		 > 120 kg and ≤ 140 kg: eight 105 mg/0.7 mL vials (max 5.6 mL) > 140 kg and ≤ 160
		kg: sixteen 60 mg/0.4 mL vials (max 6.4 mL) • > 160 kg and ≤ 200 kg: eight 150 mg/1

					mL vials (max 8 mL)
Factor IX, human	1. Memb hemop	er is diagnosed with philia B	Treatment of acute bleeding episode	120 IU/kg/dose	5 doses
AlphaNine SD, Mononine	quanti	ion-specific dose and ty are not exceeded luration: 1 year	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	100 IU/kg/dose	1 dose/procedure
			Routine prophylaxis of bleeding	100 IU/kg/dose two or three times per week	12 doses/30 days
Factor IX, recombinant	1. Memb hemop	er is diagnosed with philia B	Treatment of acute bleeding episode	140 IU/kg/dose	5 doses
BeneFIX, Ixinity, RIXUBIS	2. Memb followi a.	er meets ONE of the ing: Endogenous factor IX is less than or equal to 1 IU/dL (1%) Endogenous factor IX is less than or equal	Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	140 IU/kg/dose	1 dose/procedure
		to 40 IU/dL (40%) AND either of the following: i. Indication for use is treatment of acute bleeding episode ii. Indication for use is prophylaxis of bleeding and member has	Routine prophylaxis of bleeding	BeneFIX, Ixfinity: 100 IU/kg/dose two or three times per week RIXUBIS: 80 IU/kg/dose two times per week	BeneFIX, Ixfinity: 12 doses/30 days RIXUBIS: 8 doses/30 days

	documented history of 2 or more bleeds into large joints (i.e., ankles, knees, hips, elbows, shoulders) 3. Indication-specific dose and quantity are not exceeded Approval duration: 1 year			
Factor IX complex Bebulin, Profilnine SD	 Member is diagnosed with hemophilia B, factor II deficiency, or factor X deficiency Indication-specific dose and quantity are not exceeded 	Treatment of acute bleeding episode	Bebulin: 120 IU/kg/dose Profilnine SD: 100 IU/kg/dose	5 doses
		Prophylaxis of post-operative bleeding ² – documentation of planned procedure must be provided	Bebulin: 120 IU/kg/dose Profilnine SD: 100 IU/kg/dose	1 dose/procedure
		Routine prophylaxis of bleeding	Bebulin: 120 IU/kg/dose Profilnine SD: 100 IU/kg/dose	8 doses/30 days
Long-acting or extended half- life factor IX products:	 Initiation of therapy: Member is diagnosed with hemophilia B Member does not have inhibitors to factor IX 	Treatment of acute bleeding episode	Idelvion: 100 IU/kg/dose Rebinyn: 80	Alprolix, Idelvion, Rebinyn: 5 doses
Factor IX albumin fusion protein, recombinant (Idelvion)	 3. Member meets ONE of the following: a. Endogenous factor IX is less than or equal to 1 IU/dL (1%) – 	Prophylaxis of post-operative bleeding ² – documentation of	IU/kg/dose Alprolix, Idelvion: 100 IU/kg/dose	Alprolix, Idelvion,

			laboratory	planned procedure		Rebinyn: 1
Factor IX Fc			documentation must be provided	must be provided	Rebinyn: 80	dose/procedure
fusion protein,		b.	Endogenous factor IX		IU/kg/dose	
recombinant (Alprolix)			is less than or equal	Routine	Idelvion:	4 doses/28 days
(* ")			to 40 IU/dL (40%) AND member has	prophylaxis of	1. Age 12	
Footo v IV			documented history	bleeding	years and	
Factor IX GlycoPEGylated,			of 2 or more bleeds into large joints (i.e.,		older: 40 IU/kg one	
recombinant			ankles, knees, hips,		time per	
(Rebinyn)			elbows, shoulders) –		week or	
			laboratory documentation and		75 IU/kg every 14	
			documentation from		days	
			the medical record		2. Age less	
			must be provided		than 12	
	4.	•	ed if requested It is being used for		years: 55 IU/kg	
		•	e prophylaxis of		every 7	
			ng (NOT treatment of		days	
			pleeding or prophylaxis			
		•	-operative bleeding) – entation from the		Alprolix: 50	
			Il record must be		IU/kg/dose	
		provide	ed:		one time per	
		a.	The member has had		week or 100	
			clinically evident		IU/kg/dose every 10 days	
			bleeding (defined as: 1 or more episodes of		every 10 days	
			spontaneous			
			bleeding into a joint		Rebinyn: 40	
			or into the central nervous system; or 4		IU/kg once	
			or more episodes of		weekly	
			soft tissue bleeding in			
			an 8 week period) after a two month			
			trial of at least one of			
			the following factor			
			VIII products when			
			used as part of a factor replacement			
			protocol for			
			prophylactic			

	management of bleeding:
	i. Human (plasma- derived) Factor IX (human): AlphaNine SD, Mononine
	ii. Factor IX, recombinant: BeneFIX, Ixinity, RIXUBIS
	5. Indication-specific dose and quantity are not exceeded
	Approval duration: 6 months
	Continuation of therapy:
	1. Member meets Florida Blue's initial criteria or was previously approved by another health plan 1. Member meets Florida Blue's initial criteria or was initial criteria or was initial criteria.
	Member demonstrates a beneficial response according to indication for use:
	a. Treatment of acute bleeding episode: Bleeding episode controlled with 2 or fewer injections
	b. Routine prophylaxis of bleeding: 75% reduction in ABR
	3. Indication-specific dose and quantity are not exceeded
	Approval duration: 1 year
Fibrinogen concentrate	1. Member is diagnosed with a congenital fibrinogen Treatment of acute bleeding episode mg/kg/dose

Fibryga, RiaSTAP	deficiency (e.g., afibrinogenemia, hypofibrinogenemia) that has been confirmed by blood coagulation testing 2. Use is NOT for treatment of dysfibrinogenemia		unless member's baseline fibrinogen level is known
	 Indication-specific dose and quantity are not exceeded Approval duration: 1 year 		
Coagulation Factor X, human Coagadex	 Member is diagnosed with hereditary factor X deficiency Indication-specific dose and quantity are not exceeded Approval duration: 1 year 	Treatment of bleeding	25 IU/kg/dose one time every 24 hours
		Perioperative management of bleeding AND member has mild hereditary factor X deficiency	IU/kg/dose
Factor XIII, human Corifact	 Member is diagnosed with congenital factor XIII deficiency Indication-specific dose and quantity are not exceeded Approval duration: 1 year 	Prophylaxis of bleeding	45 IU/kg/dose every 28 days
Factor XIII, recombinant Tretten	 Member is diagnosed with congenital factor XIII deficiency Indication-specific dose and quantity are not exceeded Approval duration: 1 year 	Prophylaxis of bleeding	35 IU/kg/dose every 28 days

^{1.} Due to variations in potency and limited vial sizes, doses may be equal to or less than 110% of the doses listed above. Does not apply to Hemlibra.

^{2.} Includes dental bleeding prophylaxis (e.g., tooth extraction)

All products listed in Table 2 are considered **experimental or investigational** for all other indications as there is insufficient clinical evidence to support use.

DOSAGE/ADMINISTRATION:

THIS INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED AS A SOURCE FOR MAKING PRESCRIBING OR OTHER MEDICAL DETERMINATIONS. PROVIDERS SHOULD REFER TO THE MANUFACTURER'S FULL PRESCRIBING INFORMATION FOR DOSAGE GUIDELINES AND OTHER INFORMATION RELATED TO THIS MEDICATION BEFORE MAKING ANY CLINICAL DECISIONS REGARDING ITS USE.

Dosage and administration vary considerably with each product and is based on patient weight. A brief overview of selected products is provided in Table 3; however, it is strongly recommended that the prescriber refer to product-specific labeling for complete dosing and administration instructions.

Table 3

Dosage and administration of select clotting factor and coagulant blood products		
Product	Dosing/Administration	
Anti-inhibitor Coagulant	General dosing recommendation:	
Complex Feiba	50 to 100 units/kg IV (maximum total daily dose: 200 units/kg)	
reibu		
	Joint hemorrhage:	
	50 to 100 units/kg IV every 12 hours; continue until clinical	
	improvement achieved (e.g., pain relief, reduced swelling, joint mobilization)	
	Mucous membrane bleeding:	
	50 to 100 units/kg IV every 6 hours; carefully monitor patient and	
	perform repeated measurements hemoglobin/hematocrit	
	Soft tissue hemorrhage (e.g., retroperitoneal bleeding):	
	100 units/kg IV every 12 hours	
	Other severe hemorrhage (e.g., CNS bleed):	
	100 units/kg every 6 to 12 hours; do not exceed maximum daily dose of 200 units/kg unless bleeding severity warrants use	

Fibrinogen concentrate	Baseline fibrinogen concentration NOT known:
Fibryga, RiaSTAP	70 mg/kg IV (rate not to exceed 5 mL/min)
	Baseline fibrinogen concentration known:
	Calculate dose using known and target plasma fibrinogen level as:
	Dose (mg/kg) =
	[Target plasma fibrinogen (mg/dL) – Measured plasma fibrinogen (mg/dL)] / 1.7 mg/dL
	Pediatric (age less than 16 years) :
	A shorter half-life and faster clearance were observed in pediatric subjects (n=4)
Factor VIIa, recombinant	Administer by slow IV injection over 2 to 5 minutes within 3 hours of
NovoSeven, NovoSeven RT	reconstitution
	Acute bleeding episodes in hemophilia A or B with inhibitors:
	90 mcg/kg every 2 hours until hemostasis achieved, then every 3 to 6 hours to maintain hemostatic plug
	Bleeding prophylaxis during surgical interventions in hemophilia A or B with inhibitors:
	90 mcg/kg immediately before the intervention, then every 2 hours for the duration of the surgery
	Minor surgery: Continue dosing every 2 hours for the first 48 hours after surgery, then every 2 to 6 hours until healing has occurred
	Major surgery: Continue dosing every 2 hours for the first 5 days after surgery, then every four hours until healing has occurred
	Congenital factor VII deficiency:
	15-30 mcg/kg every 4 to 6 hours until hemostasis is achieved

	Acquired hemophilia:
	70 to 90 mcg/kg every 2 to 3 hours until hemostasis is achieved
Factor VIIa, recombinant	Acute bleeding episodes in hemophilia A or B with inhibitors:
SevenFact	225 mcg/kg x 1 dose, then 75 mcg/kg every 2 hours until hemostasis achieved
Antihemophilic factor	General Dosing Information:
(recombinant) pegylated- aucl	Expected recovery: one unit per kilogram body weight will increase the Factor VIII level by 2 international units per deciliter (IU/dL)
Jivi	Required dose (IU) = body weight (kg) x desired Factor VIII rise (% of normal or IU/dL) x reciprocal of expected recovery (or observed recovery, if available)
	Estimated Increment of Factor VIII (IU/dL or % of normal) = [Total Dose (IU)/body weight (kg)] x 2 (IU/dL per IU/kg)
	On-demand Treatment and Control of Bleeding Episodes
	Minor event: 10 to 20 units/kg IV every 24 to 48 hours
	Moderate event: 15 to 30 units/kg IV every 24 to 48 hours
	Major event: 30 to 50 units/kg IV every 8 to 24 hours
	Perioperative Management of Bleeding
	Minor surgery: 15 to 30 units/kg repeat every 24 days for up to 1 day post-surgery
	Major surgery: 40 to 50 units/kg every 12 to 24 hours until adequate wound healing
	Routine prophylaxis
	30–40 units/kg twice weekly
	Adjust dose 45-60 units/kg every 5 days based on bleeding episodes
Emicizumab-kxwh	3 mg/kg by subcutaneous injection once weekly for the first 4 weeks, followed by 1.5 mg/kg once weekly

Hemlibra	
Factor XIII	Initial dose:
Human: Corifact	40 IU/kg IV (rate not to exceed 4 mL/min) every 28 days to maintain 5 to 20% trough level of factor XIII activity
	Dosing adjustments:
	Adjust dose ± 5 IU/kg given the most recent trough factor XIII activity.
	Recommended dose adjustments based on the Berichrom activity assay are given as an example below:
	• One trough level less than 5%: Increase dose by 5 IU/kg
	• Trough level 5 to 20%: No change
	• Two trough levels of greater than 20%: Decrease dose by 5 IU/kg
	One trough level greater than 25%: Decrease dose by 5 IU/kg
	Perioperative management of surgical bleeding
	Individualize the dose based on the factor XIII activity level, type of surgery, and clinical response.
	Time since last dose is less than 7 days: Additional dose may not be needed
	• Time since last dose is 7 to 21 days: Partial or full dose may be needed
	• Time since last dose is greater than 21 days: Full dose may be given

PRECAUTIONS:

The possibility of contamination with hepatitis and other viral or bacterial infections exists for all products derived from or purified with human blood components. The manufacturing processes are designed to reduce the risk of transmitting viral infection; however, none of the processes are completely effective. There is also the possibility that unknown infectious agents may be present. It is recommended that all members with hemophilia receive vaccination against hepatitis A and B at birth or at diagnosis of hemophilia.

Specific precautions and warnings are highlighted in Table 4.

Table 4

Precautions and warnings of clotting factor and coagulant blood products

Product	Precautions/Warnings
Anti-inhibitor Coagulant Complex Feiba	Use is contraindicated in individuals with acute thrombosis, embolism, or significant signs of disseminated intravascular coagulation (DIC) (Boxed Warning)
Fibrinogen concentrate Fibryga, RiaSTAP	Allergic-anaphylactic reactions and thromboembolic episodes have been reported
Factor VIIa NovoSeven, NovoSeven RT	Arterial and venous thrombotic and thromboembolic events are associated with use (Boxed Warning)
Factor VIII Human: Hemofil M, Monoclate-P Recombinant: Advate, Helixate FS, Kogenate FS, Kovaltry, Novoeight, Nuwiq, Recombinate, ReFacto, Xyntha	Use with all factor VIII products has been associated with development of inhibitors. Monoclonal antibody-purified and recombinant antihemophilic factor products contain varying amounts of animal protein and should be used with caution in patients with bovine protein hypersensitivity, hamster protein hypersensitivity, and murine protein hypersensitivity.
Factor VIII/VWF complex Alphanate, Humate P, Koate- DVI, Octanate, Wilate	Contraindicated in individuals with known anaphylactic or severe systemic reaction to human plasma-derived products. Use has been associated with development of factor VIII or VWF inhibitors.
von Willebrand factor, recombinant <i>Vonvendi</i>	Use has been associated with development of factor VIII or VWF inhibitors.
Antihemophilic factor porcine, recombinant Obizur	Contraindicated in individuals with known anaphylactic or severe systemic reaction to hamster protein.
Antihemophilic factor (recombinant), single chain Afstyla	Hypersensitivity reactions, including anaphylaxis, are possible. Development of Factor VIII neutralizing antibodies (inhibitors) can occur. If expected plasma Factor VIII activity levels are not attained, or if bleeding is not controlled with an appropriate dose, perform an assay that measures Factor VIII inhibitor concentration. If the one-stage clotting assay is used, multiply the result by a conversion factor of 2 to determine the patient's Factor VIII activity level
Antihemophilic Fc fusion protein, recombinant (rFVIIIFc) Eloctate	Allergic-anaphylactic reactions have been reported
Antihemophilic factor pegylated, recombinant Adynovate	Allergic-anaphylactic reactions have been reported
Antihemophilic factor (recombinant), glycopegylatedexei Esperoct	Allergic-anaphylactic reactions have been reported. Development of Factor VIII neutralizing antibodies can occur.

Antihemophilic factor (recombinant) pegylated-aucl Jivi	Contraindicated in patients who have a history of hypersensitivity reactions to the active substance, polyethylene glycol (PEG), mouse or hamster proteins, or other constituents of the product.
	Development of Factor VIII neutralizing antibodies can occur.
Emicizumab-kxwh Hemlibra	Cases of thrombotic microangiopathy and thrombotic events were reported when on average a cumulative amount of >100 U/kg/24 hours of activated prothrombin complex concentrate was administered for 24 hours or more to patients receiving Hemlibra prophylaxis. Monitor for the development of thrombotic microangiopathy and thrombotic events if aPCC is administered. Discontinue aPCC and suspend dosing if symptoms occur.
Factor IX Human: AlphaNine SD, Mononine Recombinant: BeneFIX, RIXUBIS, Ixinity	BeneFIX and RIXUBIS are contraindicated in individuals with a known history of hamster protein hypersensitivity. Mononine should not be used in those with murine protein hypersensitivity. Use of all factor IX products have been associated with development of factor IX inhibitors.
Factor IX albumin fusion protein, recombinant <i>Idelvion</i>	Contraindicated in individuals with known anaphylactic or severe systemic reaction to hamster protein.
Factor IX Fc fusion protein, recombinant Alprolix	Allergic-anaphylactic reactions and thromboembolic episodes have been reported
Factor IX complex Bebulin, Profilnine SD	Individuals who receive infusions of blood or plasma products may develop signs and/or symptoms of some viral infections
Factor IX GlycoPEGylated, recombinant Rebinyn	Allergic-anaphylactic reactions and thromboembolic episodes have been reported
Coagulation Factor X, human Coagadex	Hypersensitivity reactions, including anaphylaxis, are possible. Development of neutralizing antibodies (inhibitors) may occur.
Factor XIII Human: <i>Corifact</i>	Contraindicated in individuals with known anaphylactic or severe systemic reaction to human plasma-derived products. Use has been associated with development of factor XIII inhibitors.

BILLING/CODING INFORMATION:

The following codes may be used to report clotting factor and coagulant blood products:

HCPCS Coding:

J7170	Injection, emicizumab-kxwh, 0.5 mg
J7175	Injection, factor x, (human), 1 IU [for Coagadex only]
J7177	Injection, human fibrinogen concentrate, Fibryga, 1 mg

J7178	Injection, human fibrinogen concentrate, not otherwise specified, 1 mg
J7179	Injection, von willebrand factor (recombinant), Vonvendi, 1 IU vwf:rco
J7180	Injection, factor XIII (antihemophilic factor, human), 1 IU
J7181	Injection, factor XIII A-subunit, (recombinant), per IU
J7182	Injection, factor viii, (antihemophilic factor, recombinant), Novoeight, per IU
J7183	Injection, von Willebrand factor complex (human), Wilate®, 1 IU VWF:RCO
J7185	Injection, factor VII (antihemophilic factor, recombinant), Xyntha, per IU
J7186	Injection, antihemophilic factor VIII/Von Willebrand factor complex (human), per factor VIII IU
J7187	Injection, von Willebrand Factor complex, Humate-P, per IU vWF-RCO
J7188	Injection, factor viii (antihemophilic factor, recombinant), Obizur, per IU
J7189	Factor VIIa (antihemophilic factor, recombinant), (Novoseven RT), 1 microgram
J7190	Factor VIII (antihemophilic factor, human), per IU
J7192	Factor VIII (antihemophilic factor, recombinant), per IU, not otherwise specified
J7193	Factor IX (antihemophilic factor, purified, nonrecombinant), per IU
J7194	Factor IX complex, per IU
J7195	Injection, factor IX (antihemophilic factor, recombinant), per IU, not otherwise specified
J7198	Anti-inhibitor, per IU
J7199	Hemophilia clotting factor, not otherwise classified
J7200	Injection, factor IX, (antihemophilic factor, recombinant), Rixubis, per IU
J7201	Injection, factor IX, Fc fusion protein (recombinant), Alprolix, 1 IU
J7202	Injection, factor ix, albumin fusion protein, (recombinant), Idelvion, 1 IU
J7203	Injection factor ix, (antihemophilic factor, recombinant), glycopegylated, (Rebinyn), 1 IU
J7204	Injection, factor viii, antihemophilic factor (recombinant), (esperoct), glycopegylated- exei, per iu
J7205	Injection, factor viii fc fusion protein (recombinant), per IU
J7207	Injection, factor viii, (antihemophilic factor, recombinant), pegylated, 1 IU
J7208	Injection, factor viii, (antihemophilic factor, recombinant), pegylated-aucl, (jivi), 1 IU
J7209	Injection, factor viii, (antihemophilic factor, recombinant), Nuwiq, 1 IU
J7210	Injection, factor viii, (antihemophilic factor, recombinant), Afstyla, 1 IU
J7211	Injection, factor viii, (antihemophilic factor, recombinant), Kovaltry, 1 IU
J7212	Factor viia (antihemophilic factor, recombinant)-jncw (Sevenfact), 1 microgram
J7213	Injection, coagulation factor ix (recombinant), Ixinity, 1 IU
J7214	Injection, factor viii/von willebrand factor complex, recombinant (Altuviiio), per factor viii IU

ICD-10 Diagnosis Codes That Support Medical Necessity:

D66	Hereditary factor VIII deficiency
D67	Hereditary factor IX deficiency
D68.0	Von Willebrand's disease
D68.1	Hereditary factor XI deficiency
D68.2	Hereditary deficiency of other clotting factors
D68.31	Hemorrhagic disorder due to intrinsic circulating anticoagulants
D68.32	Hemorrhagic disorder due to extrinsic circulating anticoagulants
D68.4	Acquired coagulation factor deficiency
D69.1	Qualitative platelet defects

REIMBURSEMENT INFORMATION:

Refer to section entitled **POSITION STATEMENT**.

PROGRAM EXCEPTIONS:

Federal Employee Program (FEP): Follow FEP guidelines.

State Account Organization (SAO): Follow SAO guidelines.

Medicare Part D: BCBSF has delegated to Prime Therapeutics authority to make coverage determinations for the Medicare Part D services referenced in this guideline.

Medicare Advantage Products: The following National Coverage Determination (NCD) was reviewed on the last guideline revised date: Anti-Inhibitor Coagulant Complex (AICC) (110.3) located at cms.gov. The following Local Coverage Determination (LCD) located at www.fcso.com was reviewed on the last guideline revised date: Hemophilia Clotting Factors (L33684).

DEFINITIONS:

Afibrinogenemia: lack of fibrinogen (coagulation factor I) in the blood.

AHF: Nonspecific antihemophilic factor is a preparation of factor VIII administered intravenously for the prevention or treatment of hemorrhage in patients with hemophilia A and the treatment of von Willebrand disease, hypofibrinogenemia and factor VIII deficiency.

AICC: Anti-Inhibitor Coagulant Complex is a concentrated fraction from pooled human plasma, which includes various coagulation factors. It is administered intravenously as an antihemorrhagic in hemophilic patients with inhibitors to factor XIII.

Congenital Afibrinogenemia: a rare autosomal recessive hemorrhagic coagulation disorder, characterized by complete incoagulability of the blood; hemorrhagic manifestations vary from mild to serious.

Dysfibrinogenemia: the presence in the blood of abnormal fibrinogen; both autosomal dominant and recessive forms are known.

Hemophilia B (Christmas Disease): a common type of hemophilia, an X-linked condition caused by deficiency of factor IX.

Hypofibrinogenemia: abnormally low levels of fibrinogen in the blood; called also fibrinogenopenia.

RELATED GUIDELINES:

None applicable.

OTHER:

Guidelines to first and second choice treatment:

Patient's Inhibitor	Clinical Situation		
Titer	Minor bleeding	Major bleeding	Surgery (emergency)
Less than 5 BU	<u>AHF</u>	AHF	AHF
5 to 10 BU	AHF	AHF	AHF
	<u>AICC</u>	AICC	AICC
More than 10 BU	AICC	AICC	AICC

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COMITTEE APPROVAL:

This Medical Coverage Guideline (MCG) was approved by the Florida Blue Pharmacy Policy Committee on 05/10/23.

GUIDELINE UPDATE INFORMATION:

03/15/01	New Medical Coverage Guideline.
04/15/03	Reviewed with no changes.
01/01/06	Annual HCPCS coding update: added new code J7190 and revised codes J7191 – J7193.
06/15/06	Reviewed with changing of HCPCS codes that were listed as CPT-4 codes and deleted
	one HCPCS code that was for Factor IX. Also added brand names.
03/15/07	MCG changed to No Longer Reviewed (NLR).
07/15/07	Reviewed guideline: maintain current coverage and limitations. Reformatted guideline,
	updated internet links and references.
01/01/08	Annual HCPCS coding update: added HCPCS code J7187.
09/15/08	Review and revision to guideline; consisting of renaming guideline, added factor VIIa
	and factor IX, updated "Description" section, updated position statement, updated
	coding and updated references and links.
01/01/09	Annual HCPCS coding update: deleted 90765 and 90766; added J7186, 96365 and
	96366.
07/01/09	HCPCS 3rd quarter coding update: added Q2023.
10/15/09	Review and revision to guideline; consisting of Incorporating Anti-Inhibitor Coagulant
	Complex into MCG, adding fibrinogen and updating references.
01/01/10	Annual HCPCS coding update: added J1680 and J7185, revised J7192 descriptor, and
	deleted Q2023.
05/15/10	Review and revision to guideline; consisting of updating drug lists, ICD-9 coding and
	HCPCS codes.
01/01/11	Revision to guideline; consisting of updating coding.
05/15/11	Review and revision to guideline; consisting of adding new agent, updating dosing and
	references.
07/01/11	Revision to guideline; consisting of updating coding.
10/01/11	Revision to guideline; consisting of updating coding.
01/01/12	Revision to guideline; consisting of updating coding.
05/15/12	Review and revision to guideline; consisting of updating of descriptions, reformatting
	updating coding and references

01/01/13	Annual HCPCS Update; added HCPCS code J7178 and removed J1680.
05/15/13	Review and revision to guideline; consisting of updating references, reformatting
	position statement.
12/15/13	Revision to guideline; consisting of description, position statement,
	precautions/warnings, and references.
05/15/14	Review and revision to guideline; consisting of position statement,
	dosage/administration, references, program exceptions.
09/15/14	Revision to guideline; consisting of description, position statement,
	dosage/administration, precautions, coding, references
01/01/15	Revision to guideline; consisting of coding, position statement, and annual HCPCS
	coding update.
03/15/15	Revision to guideline; consisting of position statement, coding.
05/15/15	Revision to guideline; consisting of position statement, precautions, references.
09/15/15	Revision to guideline; consisting of position statement, precautions, references.
10/01/15	Revision consisting of update to Program Exceptions section.
01/01/16	Annual HCPCS coding update: added codes J7188 and J7205 and delete code Q9975.
02/15/16	Revision to guideline; consisting of updating position statement.
03/15/16	Revision to guideline; consisting of updating position statement with new FDA
	approved agents, change MCG name from Antihemophilic Agents to Clotting Factor
	and Coagulant Blood Products.
04/01/16	Revision to guideline consisting of adding codes C9137 and C9138.
05/15/16	Review and revision to guideline consisting of updating position statement with newly
	approved agents, updating coding, references.
06/15/16	Revision to guideline consisting of updating coding.
07/15/16	Revision to guideline consisting of updating position statement.
09/15/16	Revision to guideline consisting of updating position statement to include Afstyla.
10/01/16	Revision: New HCPCS code C9139 added.
01/01/17	Revision: added HCPCS codes J7175, J7179, J7202, J7207, and J7209.
05/15/17	Review and revision to guidelines; consisting of updating references.
01/01/18	Updated HCPCS coding.
01/15/18	Revision to guideline; consisting of updating position statement to include Rebinyn.
03/15/18	Revision to guideline; consisting of updating position statement to include Hemlibra.
04/01/18	Addition of HCPCS code C9468.
05/15/18	Review and revision to guidelines; consisting of updating coding and references.
07/01/18	Addition of HCPCS code Q9995 for Hemlibra.
12/15/18	Revision to guideline; consisting of updating position statement to include Jivi
	(Antihemophilic Factor (Recombinant) PEGylated-aucl).
1/1/19	Revision to guideline; consisting of updating position statement.
3/15/19	Revision to guideline; consisting of updating position statement.
4/15/19	Revision to guideline; consisting of updating HCPCS coding.
5/15/19	Review and revision to guidelines; consisting of updating position statement and
	references.

6/15/19	Revision to guideline; consisting of updating position statement to include Esperoct
	(Turoctocog alfa pegol).
7/01/19	Revision: added HCPCS code J7208.
01/01/20	Update to position statement.
07/15/20	Revision to position statement.
11/15/20	Revision to position statement.
01/01/21	Revision: Added HCPCS code J7212 and revised description on code J7189.
03/15/23	Revision to position statement to include Rebinyn prophylaxis dosing.
07/01/23	Review and revision to guideline. Addition of Altuviiio. Addition of HCPCS code J7213.
10/01/23	Revision: Added HCPCS code J7214.