# **Extended Half-life Factor VIII Products: Altuviiio, Adynovate, Eloctate, Esperoct and Jivi**

Dates Reviewed: 01/22/2020; 03/25/2020

**Developed By:** Medical Criteria Committee

# I. Length of Authorization

• Initial: 6 months (for on-demand and prophylaxis); 1 month (for perioperative)

• Renewal: 12 months (for prophylaxis); 12 months (for on-demand)

# **II. Dosing Limits**

Product Name	Dosage Form	Indication/ FDA Labeled Dosing	Quantity Limit <sup>‡</sup>
Altuviiio,	250, 500, 750,	On-demand Treatment:	On-demand Treatment: Up to
antihemophilic	1000, 2000,	<ul> <li>Up to 50 IU/kg every 2 to 3 days</li> </ul>	the number of doses requested
factor	3000, 4000 IU	until bleeding is resolved	every 28 days
(recombinant),			
fc-vwf-xten		Routine Prophylaxis:	
fusion protein-		• 50 IU/kg once a week	Routine Prophylaxis: 200 IU/kg
ehtl		-	every 28 days
		Perioperative Management:	
		<ul> <li>Minor (e.g., tooth extraction):</li> </ul>	Perioperative Management:
		single dose of 50 IU/kg followed	Up to the number of doses
		by additional doses of 30 to 50	requested for 28 days
		IU/kg after 2 to 3 days as	
		needed until bleeding is	
		resolved	
		Major (e.g., intracranial, intra-	
		abdominal, or intrathoracic, or	
		joint- replacement): Single dose	
		of 50 IU/kg followed by	
		additional doses of 30 to 50	
		IU/kg every 2 to 3 days as	
		needed for perioperative	
		management	
Adynovate,	250, 500, 750,	On-demand Treatment: Up to 50	On-demand Treatment: Up to
antihemophilic	1000, 1500,	IU/kg every 8 to 24 hours until	the number of doses requested
factor	2000, 3000 IU	bleeding is resolved	every 28 days
(recombinant),			
PEGylated		Routine Prophylaxis:	

<ul> <li>≥12 years: Up to 50 IU/kg two times per week</li> <li>&lt;12 years: 55 IU/kg two times</li> <li>× ≥12 years: Up to 42 every 28 days</li> </ul>	
• <12 years: 55 IU/kg two times every 28 days	20 IU/kg
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per week with a maximum of 70 • <12 years: Up to 59	90 IU/kg
IU/kg every 28 days	, , , , , ,
Perioperative Management:	
<ul> <li>Minor (e.g. tooth extraction): Up to the number of do</li> </ul>	
to 50 IU/kg within one hour Up to the number of do before surgery; Repeat after 24 requested for 28 days	JSES
hours as needed until bleeding	
is resolved	
Major (e.g. intracranial, intra-	
abdominal, or intrathoracic, or joint-	
replacement): Up to 60 IU/kg within	
one hour before operation; Repeat	
every 8-24 hours (6 to 24 hours for	
patients <12 years of age) until	
adequate round healing	
Eloctate, 250, 500, 750, On-demand Treatment: Up to 50 On-demand Treatmen	t: Up to
antihemophilic 1000, 1500, IU/kg every 12 to 24 hours (every 8 the number of doses re	equested
factor 2000, 3000, to 24 hours in patients <6 years of every 28 days	
(recombinant), 4000, 5000, age) until bleeding is resolved	
Fc fusion 6000 IU	
protein Routine Prophylaxis: Routine Prophylaxis:	2 11 1 /1.~
	J IU/Kg
• <6 years: Up to 65 IU/kg every • <6 years: Up to 1,0	10 II I/kσ
three to five days. More every 28 days	10 10/18
frequent or higher doses (up to	
80 IU/kg) may be required	
Perioperative Management: Perioperative Manage	ment:
Minor (e.g. tooth extraction): Up Up to the number of de	oses
to 40 IU/kg every 24 hours requested for 28 days	
(every 12-24 hours for patients	
<6 years of age) for at least 1	
day until healing is achieved	
Major (e.g. intracranial, intra- abdominal, or intrathoracic, or joint-	
replacement): Preoperative dose of	
up to 60 IU/kg followed by a repeat	
dose of up to 50 IU/kg after 8-24	
hours (6-24 for patients <6 years of	
age) and then every 24 hours until	
adequate wound healing (at least 7	
days)	

500, 1000, 1500, 2000, 3000 IU	On-demand Treatment:  • ≥12 years: Up to 50 IU/kg per dose  • <12 years: Up to 65 IU/kg per dose	On-demand Treatment: Up to the number of doses requested every 28 days
	Routine Prophylaxis:  • ≥12 years: Up to 50 IU/kg every four days  • <12 years: Up to 65 IU/kg twice weekly	Routine Prophylaxis:  • ≥12 years: Up to 368 IU/kg every 28 days  • <12 years: Up to 546 IU/kg every 28 days
	Perioperative Management:  Minor and Major surgery: Up to 50  IU/kg for those ≥12 years of age and up to 65IU/kg for those < 12 years of age	Perioperative Management: Up to the number of doses requested for 28 days
500, 1000, 2000, 3000 IU	On-demand Treatment: Up to 50 IU/kg every 8 to 24 hours until bleeding is resolved	On-demand Treatment: Up to the number of doses requested every 28 days
	Routine Prophylaxis:  • ≥12 years: Up to 40 IU/kg two times per week  • <12 years: Not FDA approved	Routine Prophylaxis:  • ≥12 years: Up to 340 IU/kg every 28 days  • <12 years: Not FDA approved
	Perioperative Management:  • Minor (e.g. tooth extraction): Up to 30 IU/kg within every 24 hours for at least 1 day until healing as achieved  Major (e.g. intracranial, intraabdominal, or intrathoracic, or jointreplacement): Up to 50 IU/kg every 12-24 hours until adequate wound healing is complete, then continue	Perioperative Management: Up to the number of doses requested for 28 days
	3000 IU 500, 1000, 2000,	dose  12 years: Up to 65 IU/kg per dose  Routine Prophylaxis:  12 years: Up to 50 IU/kg every four days  12 years: Up to 65 IU/kg twice weekly  Perioperative Management:  Minor and Major surgery: Up to 50 IU/kg for those ≥12 years of age and up to 65IU/kg for those < 12 years of age  500, 1000, 2000, 3000 IU  On-demand Treatment: Up to 50 IU/kg every 8 to 24 hours until bleeding is resolved  Routine Prophylaxis:  12 years: Up to 40 IU/kg two times per week  12 years: Not FDA approved  Perioperative Management:  Minor (e.g. tooth extraction): Up to 30 IU/kg within every 24 hours for at least 1 day until healing as achieved  Major (e.g. intracranial, intraabdominal, or intrathoracic, or jointreplacement): Up to 50 IU/kg every 12-24 hours until adequate wound

<sup>&</sup>lt;sup>‡</sup>Allows for +5% to account for assay and vial availability

# III. Initial Approval Criteria

- I. Extended half-life factor VIII products may be considered medically necessary when the following criteria below are met:
  - A. Member has a confirmed diagnosis of **hemophilia A (congenital factor VIII deficiency)** and the following are met:
    - 1. Treatment is prescribed by or in consultation with a hematologist; AND

- 2. Use of extended half-life factor VIII is planned for one of the following indications:
  - On-demand treatment and control of bleeding episodes AND the number of factor VIII units requested does <u>not</u> exceed those outlined in the Quantity Limits table above for routine prophylaxis; OR
  - ii. Perioperative management of bleeding; OR
  - iii. Routine prophylaxis to reduce the frequency of bleeding episodes when one of the following is met:
    - a. Member has severe hemophilia A (defined as factor VIII level of <1%); OR
    - b. Member has had more than one documented episode of spontaneous bleeding; **AND**
  - iv. Dose and frequency does not exceed those outlined in the Quantity Limit Table above, unless documented clinical reasoning for higher dosing and/or frequency is supported by a half-life study to determine the appropriate dose and dosing interval; AND

a.

- Prior treatment with a standard half-life factor VIII product administered at the FDA approved dose for at least 50 exposure days was ineffective for the treatment or prevention of bleeding episodes; OR
- 4. There is clinical documentation that all available standard half-life factor VIII products are inappropriate; **AND**
- 5. Documentation that inhibitor testing has been performed within the last 12 months; AND
  - i. if inhibitor titers are high (≥5 Bethesda units), there is a documented plan to address inhibitors; AND
- 6. If the request is for Jivi, the member is 12 years of age or older and has been previously treated with another factor VIII product
- II. Extended half-life factor VIII products are considered investigational when used for all other conditions.

#### III. Renewal Criteria

- I. For **on-demand treatment** and **routine prophylaxis**:
  - i. Documentation of clinical benefit, including decreased incidence of bleeding episodes or stability of bleeding episodes relative to baseline; **AND**
  - ii. Documentation that inhibitor testing has been performed within the last 12 months <u>AND</u> if inhibitor titers are high (≥5 Bethesda units), there is documented plan to address inhibitors;
     AND
  - iii. <u>For **on-demand treatment only**</u>, the dose and frequency is not greater than the routine prophylactic dose outlined in the Quantity Limit Table above

# VI. Billing Code/Availability Information

Drug	Manufacturer	J-Code	1 Billable Unit Equiv.	Vial Size	NDC
				250 units	64406-0801-01
				500 units	64406-0802-01
				750 units	64406-0803-01
				1000 units	64406-0804-01
Eloctate	Biogen Idec Inc	J7205	1 IU	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
				250 units	00944-4622-01
				500 units	00944-4623-01
Adynovate	Baxalta US Inc	J7207	1 IU	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
Jivi	Bayer	J7208	1 IU	1000 units	00026-3944-25
				2000 units	00026-3946-25
				3000 units	00026-3948-25
				250 units	71104-978-01
				500 units	71104-979-01
				750 units	71104-980-01
Altuviiio	Sanofi	J7214	1 IU	1000 units	7114-981-01
				2000 units	71104-982-01
				3000 units	71104-983-01
				4000 units	71104-984-01

#### VII. References

- 1. Adynovate® [Prescribing Information]. Westlake Village, CA: Shire; May 2018
- 2. Afstyla® [Prescribing Information]. Kankakee, IL: CSL Behring; September 2017
- 3. Eloctate® [Prescribing Information]. Waltham, MA: Bioverativ Therapeutics; December 2017
- 4. Jivi® [Prescribing Information]. Whippany, NJ: Bayer; August 2018
- 5. National Hemophilia Foundation. Hemophilia A. Available from: <a href="https://www.hemophilia.org/Bleeding-Disorders/Types-of-Bleeding-Disorders/Hemophilia-A">https://www.hemophilia.org/Bleeding-Disorders/Types-of-Bleeding-Disorders/Hemophilia-A</a>. Accessed July 5, 2019.
- National Hemophilia Foundation. MASAC Recommendations Concerning products Licensed for the Treatment of Hemophilia and Other Bleeding Disorders. Available from: <a href="https://www.hemophilia.org/Researchers-Healthcare-Providers/Medical-and-Scientific-Advisory-Council-MASAC/MASAC-Recommendations">https://www.hemophilia.org/Researchers-Healthcare-Providers/Medical-and-Scientific-Advisory-Council-MASAC/MASAC-Recommendations</a>. Accessed July 5, 2019.

7. UpToDate, Inc. Hemophilia A and B: Routine management including prophylaxisHemophilia A and B: Routine management including prophylaxis. UpToDate [database online]. Last updated February 11, 2019.

## Appendix 1 – Covered Diagnosis Codes

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: <a href="http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx">http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx</a>. Additional indications may be covered at the discretion of the health plan.

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

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 Corporation (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 Corporation (WPS)	
N (9)	FL, PR, VI	First Coast Service Options, Inc.	
J (10)	TN, GA, AL	Cahaba Government Benefit Administrators, LLC	
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC	
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.	
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)	
15	KY, OH	CGS Administrators, LLC	