Clinical Policy: Factor IX Complex, Human (Bebulin, Profilnine)
Reference Number: CP.PHAR.219
Effective Date: 05.01.16
Last Review Date: 02.19
Line of Business: Medicaid, HIM-Medical Benefit

See Important Reminder at the end of this policy for important regulatory and legal information.

Description
Factor IX complex (human) (Bebulin®, Profilnine®) contains factor IX, II, X, and low levels of factor VII.

FDA Approved Indication(s)
Bebulin and Profilnine are indicated for the prevention and control of bleeding episodes in adult patients with hemophilia B (congenital factor IX deficiency or Christmas disease).

Limitation(s) of use: Bebulin and Profilnine are not indicated for use in the treatment of factor VII deficiency. They contain non-therapeutic levels of factor VII, and no clinical studies have been conducted to show benefit from this product for treating deficiencies other than factor IX deficiency.

Policy/Criteria
Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation® that Bebulin and Profilnine are medically necessary when the following criteria are met:

I. Initial Approval Criteria
   A. Congenital Hemophilia B (must meet all):
      1. Diagnosis of congenital hemophilia B (factor IX deficiency);
      2. Prescribed by or in consultation with a hematologist;
      3. Age ≥ 18 years;
      4. Request is for prevention and control of bleeding episodes;
      5. Dose does not exceed the FDA approved maximum recommended dose for the relevant indication.

   Approval duration: 3 months

   B. Other diagnoses/indications
      1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid and HIM-Medical Benefit.

II. Continued Therapy
   A. Congenital Hemophilia B (must meet all):
1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. If request is for a dose increase, new dose does not exceed the FDA approved maximum recommended dose for the relevant indication.

Approval duration: 3 months

B. Other diagnoses/indications (must meet 1 or 2):
1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.
   Approval duration: Duration of request or 3 months (whichever is less); or
2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid and HIM-Medical Benefit.

III. Diagnoses/Indications for which coverage is NOT authorized:
A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policy – CP.PMN.53 for Medicaid and HIM-Medical Benefit or evidence of coverage documents.

IV. Appendices/General Information
Appendix A: Abbreviation/Acronym Key
FDA: Food and Drug Administration

Appendix B: Therapeutic Alternatives
Not applicable

Appendix C: Contraindications/Boxed Warnings
• Contraindication(s):
  o Bebulin: known history of hypersensitivity reactions to the product, known allergy to heparin, known history of heparin-induced thrombocytopenia
  o Profinilnine: none reported
• Boxed warning(s): none reported

V. Dosage and Administration

<table>
<thead>
<tr>
<th>Drug Name</th>
<th>Indication</th>
<th>Dosing Regimen</th>
<th>Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factor IX complex (Bebulin)</td>
<td>Minor bleeding episodes: 25-35 IU/kg IV; repeat dose if there is evidence of further bleeding</td>
<td>90 IU/kg single dose or 75 IU/kg/repeated dose</td>
<td>Factor IX complex (Bebulin)</td>
</tr>
<tr>
<td></td>
<td>Moderate bleeding episodes: 50-65 IU/kg IV every 24 hours</td>
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<td></td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Drug Name</th>
<th>Indication</th>
<th>Dosing Regimen</th>
<th>Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factor IX complex (Profilnine)</td>
<td>Minor to moderate bleeding episodes: 20-30 IU/kg IV every 16-24 hours</td>
<td>50 IU/kg</td>
<td>Factor IX complex (Profilnine)</td>
</tr>
<tr>
<td></td>
<td>Major bleeding episodes: 30-50 IU/kg IV followed by 20 IU/kg IV every 16-24 hours</td>
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<tr>
<td></td>
<td>Major bleeding episodes: 30-50 IU/kg IV prior to surgery, followed by the same dose every 16-24 hours thereafter</td>
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<tr>
<td></td>
<td>Surgery: 30-50 IU/kg IV prior to surgery, followed by the same dose every 16-24 hours thereafter</td>
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</table>

**VI. Product Availability**

<table>
<thead>
<tr>
<th>Drug Name</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factor IX complex (Bebulin)</td>
<td>Vial: 200-1,200 IU; Factor IX activity in IU is stated on the label of each vial</td>
</tr>
<tr>
<td>Factor IX complex (Profilnine)</td>
<td>Vial: 500, 1,000, 1,500 IU</td>
</tr>
</tbody>
</table>

**VII. References**


**Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

<table>
<thead>
<tr>
<th>HCPCS Codes</th>
<th>Description</th>
<th>Date</th>
<th>P&amp;T Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>J7194</td>
<td>Factor IX complex, per IU</td>
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</tbody>
</table>

**Reviews, Revisions, and Approvals**

- Removed requests for documentation. Added age requirement per PIs.
- Neither drug is approved for prophylaxis so the “history of 2 or more episodes of bleeding into joints” is removed; approval period for non-prophylactic use is edited to provide 3 months on initial approval and one 3-month re-auth. Removed denial based on inhibitor titer of ≥5 BU/mL. Reviewed by specialist.
- Safety information removed. Wording, approval periods, and use of “congenital” versus “acquired hemophilia descriptions made consistent across all blood factor policies. Efficacy statement added to renewal criteria. Reviewed by specialist- hematology/internal medicine.
- 1Q18 annual review:
  - Converted to new template
  - Changed age limit for Profilnine to 18 years, per PI
  - References reviewed and updated
- 1Q 2019 annual review: added HIM-Medical Benefit; no significant changes; references reviewed and updated.

**Important Reminder**

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program
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approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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Note: For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence.
Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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