Clinical Policy: Burosumab-twza (Crysvita)

Reference Number: CP.PHAR.11
Effective Date: 05.08.18
Last Review Date: 08.19
Line of Business: Commercial, Medicaid, HIM-Medical Benefit

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

Description
Burosumab-twza (Crysvita®) is a fibroblast growth factor 23 (FGF23) blocking antibody.

FDA Approved Indication(s)
Crysvita is indicated for the treatment of X-linked hypophosphatemia (XLH) in adult and pediatric patients 1 year of age and older.

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 Crysvita is medically necessary when the following criteria are met:

I. Initial Approval Criteria
   A. X-Linked Hypophosphatemia (must meet all):
      1. Diagnosis of XLH confirmed by one of the following (a or b):
         a. DNA testing confirms the presence of mutations in the PHEX gene;
         b. Elevated serum FGF23 levels;
      2. Prescribed by or in consultation with an endocrinologist or metabolic disease specialist;
      3. Age ≥ 1 year;
      4. Current (within the last 30 days) serum phosphorus level is below the reference range for age and gender (use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges);
      5. Presence of clinical signs and symptoms of the disease (e.g., rickets, growth impairment, musculoskeletal pain, bone fractures);
      6. Dose does not exceed 90 mg every two weeks (pediatrics) or 90 mg every four weeks (adults).
   Approval duration:
      Medicaid/HIM – 6 months
      Commercial – 6 months or to the member’s renewal date, whichever is longer

   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
CLINICAL POLICY
Burosumab-twza

NOT authorized): CP.CPA.09 for commercial and CP.PMN.53 for Medicaid and HIM-Medical Benefit.

II. Continued Therapy
A. X-Linked Hypophosphatemia (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 as evidenced by both of the following (a and b):
      a. An increase in serum phosphorus levels from baseline and/or maintenance within the normal range for age and gender, not to exceed the upper limit of that normal range (use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges);
      b. A positive clinical response including any of the following: enhanced height velocity, improvement in skeletal deformities, reduction of fractures, reduction of generalized bone pain;
   3. If request is for a dose increase, new dose does not exceed 90 mg every two weeks (pediatrics) or 90 mg every four weeks (adults).

   Approval duration:
   Medicaid/HIM – 12 months
   Commercial – 6 months or to member’s renewal date, whichever is longer

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 6 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.CPA.09 for commercial and 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 policies – CP.CPA.09 for commercial and 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
   FGF23: fibroblast growth factor 23
   XLH: X-linked hypophosphatemia

   Appendix B: Therapeutic Alternatives
   Not applicable
Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): concomitant use with oral phosphates and active vitamin D analogs, initiation of Crysvita therapy when serum phosphorus is within or above the normal range for age, severe renal impairment or end stage renal disease because these conditions are associated with abnormal mineral metabolism.
- Boxed warning(s): none.

Appendix D: General Information

- Laboratory-specific reference ranges for serum phosphorus levels should be used when available; otherwise, the age- and gender-based reference ranges found below may be used:

<table>
<thead>
<tr>
<th>Females</th>
<th>Males</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-7 years: 4.3-5.4 mg/dL</td>
<td>1-4 years: 4.3-5.4 mg/dL</td>
</tr>
<tr>
<td>8-13 years: 4.0-5.2 mg/dL</td>
<td>5-13 years: 3.7-5.4 mg/dL</td>
</tr>
<tr>
<td>14-15 years: 3.5-4.9 mg/dL</td>
<td>14-15 years: 3.5-5.3 mg/dL</td>
</tr>
<tr>
<td>16-17 years: 3.1-4.7 mg/dL</td>
<td>16-17 years: 3.1-4.7 mg/dL</td>
</tr>
<tr>
<td>≥ 18 years: 2.5-4.5 mg/dL</td>
<td>≥ 18 years: 2.5-4.5 mg/dL</td>
</tr>
</tbody>
</table>

- For pediatric patients continuing on Crysvita therapy, if serum phosphorus is > 5 mg/dL, it is recommended to withhold the dose until the serum phosphorus level falls below the reference range per age.
- For adult patients continuing on Crysvita therapy, if serum phosphorus is above the upper limit of the normal range, it is recommended to withhold the dose until the serum phosphorus level falls below the reference range.

V. Dosage and Administration

<table>
<thead>
<tr>
<th>Indication</th>
<th>Dosing Regimen</th>
<th>Maximum Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLH</td>
<td><strong>Pediatric XLH</strong></td>
<td>Pediatric XLH: 90 mg every two weeks</td>
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<tr>
<td></td>
<td>0.8 mg/kg rounded to the nearest 10 mg, SC every two weeks</td>
<td>Adult XLH: 90 mg every four weeks</td>
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<td></td>
<td>Increase dose up to approximately 2 mg/kg, SC every two weeks to achieve normal serum phosphorus.</td>
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<tr>
<td></td>
<td><strong>Adult XLH</strong></td>
<td></td>
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<tr>
<td></td>
<td>1 mg/kg body weight rounded to the nearest 10 mg SC every four weeks.</td>
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<td>Crysvita should only be administered by a healthcare professional.</td>
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</table>

VI. Product Availability

Single-dose vials for injection: 10 mg/mL, 20 mg/mL, 30 mg/mL

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>
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<tbody>
<tr>
<td>J0584</td>
<td>Injection, burosumab-twza, 1 mg</td>
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Reviews, Revisions, and Approvals

<table>
<thead>
<tr>
<th>Policy created.</th>
<th>Date</th>
<th>P&amp;T Approval Date</th>
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<tbody>
<tr>
<td></td>
<td>05.08.18</td>
<td>08.18</td>
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<tr>
<td>No significant changes: added HIM-Medical Benefit line of business per SDC.</td>
<td>10.23.18</td>
<td></td>
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<td>3Q 2019 annual review: removed the requirement for a prior trial of calcitriol plus oral phosphates based on updated clinical trial data demonstrating superiority of Crysvita over calcitriol plus oral phosphates; references reviewed and updated.</td>
<td>05.14.19 08.19</td>
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</tr>
</tbody>
</table>

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 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.

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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
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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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