

Clinical Policy: Burosumab-twza (Crysvita)

Reference Number: LA.PHAR.11 Effective Date: <u>11.04.23</u> Last Review Date: <u>04.04.24</u> <u>06.14.23</u> Line of Business: Medicaid

Coding Implications Revision Log

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

Please note: This policy is for medical benefit

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 6 months of age and older.
- FGF23-related hypophosphatemia in tumor-induced osteomalacia (TIO) associated with phosphaturic mesenchymal tumors that cannot be curatively resected or localized in adult and pediatric patients 2 years 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 Louisiana Healthcare Connections 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;
 - Prescribed by or in consultation with an endocrinologist or metabolic disease specialist;
 - 3. $Age \ge 6$ months;
 - 4. Current (within the last 30 days) serum phosphorus levels are one of the following (a or b):
 - a. Below the reference range for age and gender (*use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges*), and member has not received oral phosphate or vitamin D replacement therapy and serum phosphorus;
 - b. In normal range, but member remains symptomatic (e.g., rickets, growth impairment, musculoskeletal pain, bone fractures) despite currently receiving oral phosphate and/or vitamin D replacement therapy;
 - 5. Presence of clinical signs and symptoms of the disease (e.g., rickets, growth impairment, musculoskeletal pain, bone fractures);



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- 6. Crysvita is not prescribed concurrently with oral phosphate or vitamin D replacement therapy;
 7. Dose does not exceed one of the following (a or b):

 a. Age 6 months to < 18 years: 2 mg/kg up to 90 mg every two weeks;
 b. Age ≥ 18 years: 1 mg/kg up to 90 mg every four weeks.
- Approval duration: <u>6 months</u>

B. Tumor-Induced Osteomalacia (must meet all):

- 1. Diagnosis of TIO with confirmed elevated serum FGF23 levels;
- Prescribed by or in consultation with an endocrinologist or metabolic disease specialist;
- 3. Age \geq 2 years;
- Failure of a ≥ 3 consecutive month trial of oral phosphate and vitamin D replacement therapy, unless contraindicated or clinically significant adverse effects are experienced;
- 5. Current (within the last 30 days) serum phosphorus levels are one of the following (a or b):
 - a. Below the reference range for age and gender (*use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges*), and member has not received oral phosphate or vitamin D replacement therapy;
 - b. In normal range, but member remains symptomatic (e.g., osteomalacia, muscle weakness, fatigue, bone pain, fractures) despite currently receiving oral phosphate and/or vitamin D replacement therapy;
- Documentation confirms that the causative tumor(s) is/are not amenable to surgical excision or resection;
- 7. Crysvita is not prescribed concurrently with oral phosphate or vitamin D replacement therapy;
- 8. Documentation of member's current weight, for dose calculation purposes;
- 9. Dose does not exceed 2 mg/kg (maximum of 180 mg) every two weeks.
- Approval duration: 6 months

C. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: LA.PMN.53 for Medicaid.

II. Continued Therapy

- A. X-Linked Hypophosphatemia (must meet all):
 - 1. Currently receiving medication via Louisiana Healthcare Connections 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):

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 a. An increase in serum phosphorus levels from baseline and/or maintenance the normal range for age and gender, not to exceed the upper limit of that n range (<i>use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges</i>); b. A positive clinical response including any of the following: enhanced heigh velocity, improvement in skeletal deformities, reduction of fractures, reduction generalized bone pain; 	ormal
 3. If request is for a dose increase, new dose does not exceed one of the following b): a. Age 6 months to < 18 years: 2 mg/kg up to 90 mg every two weeks; 	g (a or
b. Age ≥ 18 years: 1 mg/kg up to 90 mg every four weeks.	
Approval duration: <u>12 months</u>	Formatted: Font: Bold
 B. Tumor-Induced Osteomalacia (must meet all): Currently receiving medication via Louisiana Healthcare Connections benefit of member has previously met initial approval criteria; Member is responding positively to therapy as evidenced by both of the follow and b): An increase in serum phosphorus levels from baseline and/or maintenance the normal range for age and gender, not to exceed the upper limit of that n range (use laboratory-specific reference ranges if available; otherwise, see Appendix D for ranges); Documentation confirms improvement in symptoms (e.g., osteomalacia, m weakness, fatigue, bone pain, fractures); Documentation of member's current weight, for dose calculation purposes; If request is for a dose increase, new dose does not exceed 2 mg/kg (maximum mg) every two weeks. 	ing (a within ormal uscle
 C. Other diagnoses/indications (must meet 1 or 2): 1. If this drug has recently (within the last 6 months) undergone a label change (e newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically I under section III (Diagnoses/Indications for which coverage is NOT authorized criterion 1 above does not apply, refer to the off-label use policy for the relevan of business: LA.PMN.53 for Medicaid. 	isted I) AND
 III. Diagnoses/Indications for which coverage is NOT authorized: A. Non-FDA approved indications, which are not addressed in this policy, unless ther sufficient documentation of efficacy and safety according to the off label use polic LA.PMN.53 for Medicaid, or evidence of coverage documents. 	
IV. Appendices/General InformationAppendix A: Abbreviation/Acronym KeyFDA: Food and Drug AdministrationFGF23: fibroblast growth factor 2	3

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XLH: X-linked hypophosphatemia

Appendix B: Therapeutic Alternatives Not applicable

TIO: tumor-induced osteomalacia

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 reported ٠

Appendix D: General Information

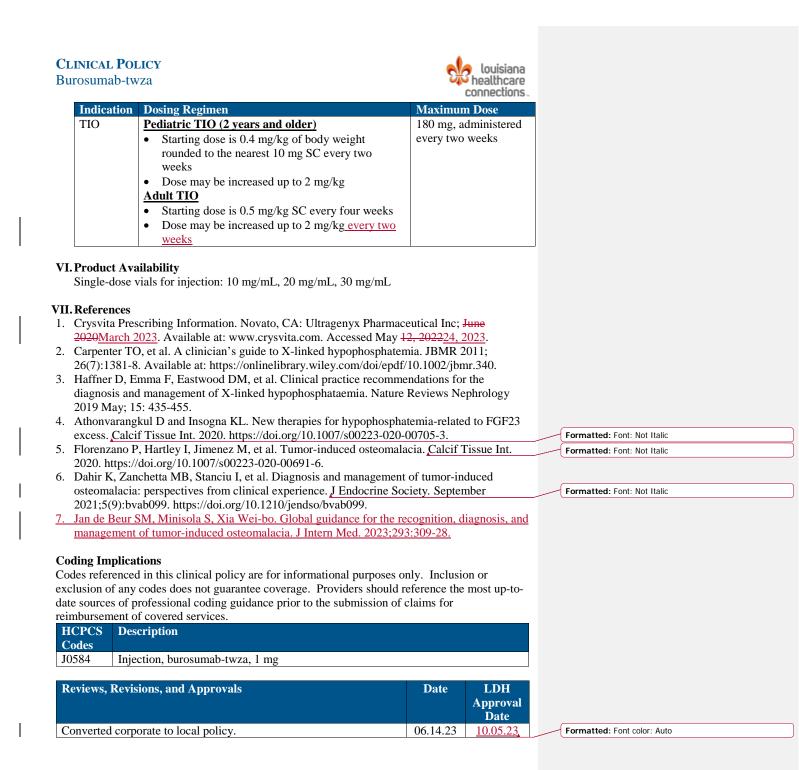
• Laboratory-specific reference ranges for serum phosphorus levels should be used when available; otherwise, the age- and gender-based reference ranges found below may be used

Females	Males
1-7 years: 4.3-5.4 mg/dL	1-4 years: 4.3-5.4 mg/dL
8-13 years: 4.0-5.2 mg/dL	5-13 years: 3.7-5.4 mg/dL
14-15 years: 3.5-4.9 mg/dL	14-15 years: 3.5-5.3 mg/dL
16-17 years: 3.1-4.7 mg/dL	16-17 years: 3.1-4.7 mg/dL
\geq 18 years: 2.5-4.5 mg/dL	\geq 18 years: 2.5-4.5 mg/dL

- For pediatric patients continuing on Crysvita therapy, if serum phosphorus is > 5 mg/dL, ٠ 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

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



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Reviews, Revisions, and Approvals	Date	LDH Approval Date
Annual review: no significant changes; references reviewed and updated.	04.04.24	

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. LHCC 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.

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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.

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and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

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