

Clinical Policy: Abaloparatide (Tymlos)

Reference Number: ERX.SPA.152

Effective Date: 09.01.17

Last Review Date: 05.22

Line of Business: Commercial, Medicaid

[Revision Log](#)

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

Description

Abaloparatide (Tymlos[®]) is a human parathyroid hormone (PTH)-related peptide analog.

FDA Approved Indication(s)

Tymlos is indicated:

- **Postmenopausal osteoporosis (PMO):** For the treatment of postmenopausal women with osteoporosis at high risk for fracture.* In postmenopausal women with osteoporosis, Tymlos reduces the risk of vertebral fractures and nonvertebral fractures.

**High risk of fracture is defined as a history of osteoporotic fracture, multiple risk factors for fracture, or patients who have failed or are intolerant to other available osteoporosis therapy.*

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.

Health plan approved formularies should be reviewed for all coverage determinations. Requirements to use preferred alternative agents apply only when such requirements align with the health plan approved formulary.

It is the policy of health plans affiliated with Envolve Pharmacy Solutions[™] that Tymlos is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Osteoporosis (must meet all):

1. Diagnosis of PMO and one of the following (a or b):
 - a. Member is at very high risk for fracture as evidenced by one of the following (i, ii, or iii):
 - i. Recent osteoporotic fracture (within the past 12 months);
 - ii. Bone mineral density (BMD) T-score at hip or spine ≤ -3.0 ;
 - iii. BMD T-score at hip or spine ≤ -2.5 AND major osteoporotic fracture (i.e., hip, spine, forearm, wrist, humerus);
 - b. Member has completed a 3-year trial of bisphosphonate therapy (*see Appendix B; alendronate is preferred*) at up to maximally indicated doses, unless one of the following (i-v):
 - i. All bisphosphonates are contraindicated;
 - ii. Clinically significant adverse effects are experienced to both IV and PO formulations (*see Appendix D*);
 - iii. Member has experienced a loss of BMD while receiving bisphosphonate therapy;
 - iv. Member has experienced a lack of BMD increase after ≥ 12 months of bisphosphonate therapy;
 - v. Member experienced an osteoporotic fracture or fragility fracture while receiving bisphosphonate therapy;
2. Age ≥ 18 years or documentation of closed epiphyses on x-ray;
3. Member has not received ≥ 2 years cumulative abaloparatide therapy;
4. Dose does not exceed 80 mcg per day (1 pen every 30 days).

Approval duration: 6 months (2 years cumulative abaloparatide use lifetime)

B. Other diagnoses/indications

1. Refer to ERX.PA.01 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

II. Continued Therapy

A. Osteoporosis (must meet all):

1. Currently receiving medication via a health plan affiliated with Envolve Pharmacy Solutions or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. Member has not received ≥ 2 years cumulative abaloparatide therapy;
4. If request is for a dose increase, dose does not exceed 80 mcg per day (1 pen every 30 days).

Approval duration: 12 months (2 years cumulative abaloparatide use lifetime)

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

1. Currently receiving medication via a health plan affiliated with Envolve Pharmacy Solutions and documentation supports positive response to therapy.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to ERX.PA.01 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

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 – ERX.PA.01 or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

BMD: bone mineral density

FDA: Food and Drug Administration

PMO: postmenopausal osteoporosis

PTH: parathyroid hormone

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria.

The drugs listed here may not be a formulary agent and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit Maximum Dose
IV bisphosphonates		
ibandronate (Boniva®)	Treatment: PMO <i>See prescribing information for dose.</i>	Varies
zoledronic acid (Reclast®)	Treatment/prevention: PMO, GIO Treatment: male osteoporosis Treatment: Paget disease <i>See prescribing information for dose.</i>	
Oral bisphosphonates		
alendronate (Fosamax®)	Treatment/prevention: PMO Treatment: GIO, male osteoporosis Treatment: Paget disease <i>See prescribing information for dose.</i>	Varies
Fosamax® Plus D (alendronate / cholecalciferol)	Treatment: PMO, male osteoporosis <i>See prescribing information for dose.</i>	
risedronate (Actonel®, Atelvia®)	Actonel: Treatment/prevention: PMO, GIO Treatment: male osteoporosis Treatment: Paget disease	

Drug Name	Dosing Regimen	Dose Limit Maximum Dose
	Atelvia: Treatment: PMO <i>See prescribing information for dose.</i>	
ibandronate (Boniva)	Treatment/prevention: PMO <i>See prescribing information for dose.</i>	

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): known hypersensitivity to Tymlos
- Boxed warning(s): none reported

Appendix D: IV/PO Bisphosphonates: Examples of Contraindications and Adverse Effects

Bisphosphonates	Oral Formulations	IV Formulations
Contraindications		
Hypocalcemia	X	X
Increased risk of aspiration	X	-
Hypersensitivity to product component	X	X
Inability to stand/sit upright for at least 30 minutes	X	-
Creatinine clearance < 35 mL/min or evidence of acute renal impairment	-	X
Esophagus abnormalities which delay emptying such as stricture or achalasia	X	-
Clinically significant warnings or adverse side effects		
Pregnancy	X	X
Eye inflammation	X	X
Acute renal failure	X	X
Osteonecrosis of the jaw	X	X
Atypical femoral shaft fracture	X	X
Drug interactions (product-specific)	X	X
Severe or incapacitating musculoskeletal pain	X	X

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
PMO	80 mcg SC QD	80 mcg/day up to 2 years cumulative PTH analog use lifetime

VI. Product Availability

Single-patient-use prefilled pen: 3,120 mcg/1.56 mL (30 daily doses of 80 mcg)

VII. References

1. Tymlos Prescribing Information. Waltham, MA: Radius Health, Inc.; December 2021. Available at https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/208743s003lbl.pdf. Accessed April 18, 2022.
2. Clinical Pharmacology [database online]. Tampa, FL: Gold Standard, Inc.; 2020. Available at: <http://www.clinicalpharmacology-ip.com/>.

Osteoporosis Diagnosis, Fracture Risk, and Treatment

3. Shoback D, Rosen CJ, Black DM, et al. Pharmacological management of osteoporosis in postmenopausal women: an endocrine society guideline update. J Clin Endocrinol Metab; March 2020, 105(3): 587-594.

4. Eastell R, Rosen CJ, Black DM, et al. Pharmacological management of osteoporosis in postmenopausal women: An Endocrine Society Clinical Practice Guideline. J Clin Endocrinol Metab; 2019, 104: 1595–1622.
5. Camacho PM, Petak SM, Brinkley N et al. American Association of Clinical Endocrinologists/American College of Endocrinology clinical practice guidelines for the diagnosis and treatment of postmenopausal osteoporosis—2020 update. Endocr Pract. 2020;26(1):1-46.
6. National Osteoporosis Foundation Clinician's Guide to Prevention and Treatment of Osteoporosis. Osteoporosis International 2014. Available at: <https://cdn.nof.org/wp-content/uploads/2016/01/995.pdf>. Accessed November 05, 2021.
7. Siris ES, Adler R, Bilezikian J, et al. The clinical diagnosis of osteoporosis: a position statement from the National Bone Health Alliance Working Group. Osteoporos Int (2014) 25:1439–1443. DOI 10.1007/s00198-014-2655-z.
8. Hodsman AB, Bauder DC, Dempster DW, et al. Parathyroid hormone and teriparatide for the treatment of osteoporosis: a review of the evidence and suggested guidelines for its use. Endocr Rev. 2005 Aug;26(5):688-703. Epub 2005 Mar 15.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
1Q18 annual review: Converted to new template. Added complete FDA approved indication and limitation of use. Removed requirements for evidence of diagnosis (T-score, history of fracture). Age requirement modified to include pediatric members with closed epiphyses. Modified criteria to add specialist requirement or trial and failure agent to a bisphosphonate (alendronate is preferred). Removed definition of treatment failure. Removed requirements regarding admin of last doses of Reclast and injectable ibandronate. Shortened approval duration for continuation treatment under other diagnoses/indications to 6 months per specialty drugs. Added Appendix C: General Information section. Updated Therapeutic Alternatives section.	11.10.17	02.18
1Q 2019 annual review: no significant changes; added geriatrician prescriber option; revised continued therapy approval duration to 12 months; references reviewed and updated.	10.31.18	02.19
1Q 2020 annual review: very high fracture risk or 3-year bisphosphonate trial added with required contraindication to both PO/IV formulations; specialists removed; age 18 or closed epiphyses added per PI; references reviewed and updated.	11.19.19	02.20
1Q 2021 annual review: no significant changes; references reviewed and updated.	10.26.20	02.21
1Q 2022 annual review: updated definition of very high risk for fracture per 2020 AACE/ACE PMO guidelines; updated Appendix C; references reviewed and updated.	11.05.21	02.22
Added option (in addition to contraindications or adverse effects) to bypass bisphosphonate trial if member has experienced a loss of BMD, lack of BMD increase, or has had an osteoporotic fracture or fragility fracture while receiving bisphosphonate therapy; clarified use is limited to ≤ 2 years cumulative abaloparatide therapy (rather than reference PTH analogs generally, as Forteo label was updated to allow use beyond 2 years); removed osteosarcoma black box warning from Appendix C.	02.07.22	05.22

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..

This Clinical Policy is not intended to dictate to providers how to practice medicine, nor does it constitute a contract or guarantee regarding payment or results. 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 policy is the property of Envolve Pharmacy Solutions. Unauthorized copying, use, and distribution of this Policy or any information contained herein is strictly prohibited. By accessing this policy, you agree to be bound by the foregoing terms and conditions, in addition to the Site Use Agreement for Health Plans associated with Envolve Pharmacy Solutions.

©2017 Envolve Pharmacy Solutions. All rights reserved. All materials are exclusively owned by Envolve Pharmacy Solutions and are protected by United States copyright law and international copyright law. No part of this publication may be reproduced, copied, modified, distributed, displayed, stored in a retrieval system, transmitted in any form or by any means, or otherwise published without the prior written permission of Envolve Pharmacy Solutions. You may not alter or remove any trademark, copyright or other notice contained herein.