

## Prolia (denosumab) Xgeva (denosumab) Effective 04/01/2023

Plan	<ul> <li>☑ MassHealth UPPL</li> <li>□Commercial/Exchange</li> </ul>		Prior Authorization
Benefit	<ul><li>Pharmacy Benefit</li><li>Medical Benefit (NLX)</li></ul>	Program Type	<ul> <li>☑ Quantity Limit</li> <li>□ Step Therapy</li> </ul>
Specialty Limitations	These medications have been designated specialty and must be filled at a contracted specialty pharmacy when obtained through the pharmacy benefit.		
	Specialty Medications		
Contact Information	All Plans	Phone: 866-814-5506	Fax: 866-249-6155
	Non-Specialty Medications		
	MassHealth	Phone: 877-433-7643	Fax: 866-255-7569
	Commercial	Phone: 800-294-5979	Fax: 888-836-0730
	Exchange	Phone: 855-582-2022	Fax: 855-245-2134
	Medical Specialty Medications (NLX)		
	All Plans	Phone: 844-345-2803	Fax: 844-851-0882
Exceptions			

#### Overview

Denosumab is a type of monoclonal antibody used to treat osteoporosis and prevention of bone issues caused by certain cancers. Denosumab is available as two branded products (Prolia and Xgeva), each with specific FDA indications.

Approval Diagnosis:

- Treatment/prevention of postmenopausal osteoporosis in women (Prolia»)
- Treatment of osteoporosis in men (Prolia<sup>®</sup>)
   Treatment/prevention of glucocorticoid-induced osteoporosis in men and women (Prolia<sup>®</sup>)
- Treatment to increase bone mass in women at high risk for fracture receiving adjuvant aromatase inhibitor therapy for breast cancer (Prolia<sup>®</sup>)
- Treatment to increase bone mass in men at high risk for fracture receiving androgen deprivation therapy for non-metastatic prostate cancer (Prolia<sup>®</sup>)
- Prevention of skeletal-related events secondary to bone metastases in cancer related to solid tumors and in multiple myeloma (Xgeva\*)
- Treatment of giant cell tumor of the bone (Xgeva»)
- Treatment of hypercalcemia of malignancy (Xgeva»)

#### **Coverage Guidelines**

Authorization may be granted for members who are new to the plan currently receiving treatment with Prolia or Xgeva excluding when the product is obtained as samples or via manufacturer's patient assistance programs. **OR** 

Mass General Brigham Health Plan includes Mass General Brigham Health Plan, Inc. and Mass General Brigham Health Insurance Company.

Authorization may be granted for members when all the following drug-specific criteria are met, and documentation is provided:

## Treatment/prevention of osteoporosis

# Prolia<sup>®</sup> (denosumab)

Prescriber provides documentation of ALL of the following:

- 1. Appropriate diagnosis
- 2. **ONE** of the following:
  - a. Physician attestation of inadequate response to an adequate trial or adverse reaction to **ONE** oral bisphosphonate (see appendix for details)
  - b. Contraindication to ALL oral bisphosphonates (see appendix for details)
  - c. Member is at very high risk for fracture indicated by at least **ONE** of the following: a. History of fracture within the past 12 months
    - i. History of fractures while on osteoporosis therapy
    - ii. History of multiple fractures
    - iii. History of fractures while on drugs causing skeletal harm (e.g., long-term glucocorticoids)
    - iv. T-score less than -3.0
    - v. High risk for falls
    - vi. History of injurious falls
    - vii. Very high fracture probability by FRAX<sup>®</sup> (fracture risk assessment tool) or other validated fracture risk algorithm

## Treatment/prevention of glucocorticoid-induced osteoporosis

# Prolia<sup>®</sup> (denosumab):

Prescriber provides documentation of **ALL** of the following:

- 1. **ONE** of the following:
  - a. Appropriate diagnosis
  - b. Chronic glucocorticoid use determined by claims for >5 mg of prednisone equivalent for  $\ge$  3 months in claims history
- 2. **ONE** of the following:
  - a. Physician attestation of inadequate response to an adequate trial or adverse reaction to **ONE** oral bisphosphonate (see appendix for details)
  - b. Contraindication to oral bisphosphonates (see appendix for details)
  - c. Member is at very high risk for fracture indicated by at least **ONE** of the following: a. History of fracture within the past 12 months
    - i. History of fractures while on osteoporosis therapy
    - ii. History of multiple fractures
    - iii. History of fractures while on drugs causing skeletal harm (e.g., long-term glucocorticoids)
    - iv. T-score less than -3.0
    - v. High risk for falls
    - vi. History of injurious falls
    - vii. Very high fracture probability by FRAX<sup>®</sup> (fracture risk assessment tool) or other validated fracture risk algorithm

Prevention of skeletal-related events secondary to bone metastases in cancer related to solid tumors and in multiple myeloma;



Treatment of hypercalcemia of malignancy;

<u>Treatment to increase bone mass in women at high risk for fracture receiving adjuvant aromatase inhibitor</u> <u>therapy for breast cancer</u>;

<u>Treatment to increase bone mass in men at high risk for fracture receiving androgen deprivation therapy for</u> <u>non-metastatic prostate cancer</u>

# Prolia<sup>®</sup> (denosumab):

- 1. Appropriate diagnosis
- 2. **ONE** of the following:
  - a. Physician attestation of inadequate response to an adequate trial or adverse reaction to **ONE** bisphosphonate (see appendix for details)
  - b. Contraindication to ALL oral and injectable bisphosphonates

## Xgeva<sub>®</sub> (denosumab):

- 1. Diagnosis is **ONE** of the following:
  - a. Prevention of skeletal-related events secondary to bone metastases in cancer related to solid tumors
  - b. Prevention of skeletal-related events secondary to multiple myeloma
  - c. Treatment of hypercalcemia of malignancy
- 2. Prescriber is an oncologist, hematologist, or orthopedic specialist or has provided consult notes from an oncologist, hematologist, or orthopedic specialist
- 3. Appropriate dosing

## Treatment of Giant Cell Tumor of the bone (GCTB)

## Xgeva<sub>®</sub> (denosumab):

- 1. Appropriate diagnosis
- 2. **ONE** of the following:
  - a. Documentation that the tumor or metastases are unresectable
  - b. Documentation that surgical resection is likely to result in severe morbidity
  - c. Documentation that surgery is not an option at this time
- 3. Dose and frequency are appropriate for GCTB

## **Continuation of Therapy**

Resubmission by prescriber will infer positive response to therapy.

## Limitations

1. Approvals will be granted for 1 year.

## Appendix

## Adverse reactions to oral bisphosphonates

- Upper gastrointestinal effects (i.e. dysphagia, esophagitis, esophageal or gastric ulcers)
  - A gastrointestinal adverse event to any oral bisphosphonate will be considered as having met the trial requirement for oral alendronate where noted.
- Hypersensitivity to any component

## **Contraindications to oral bisphosphonates**

- Abnormalities of esophagus which delay esophageal emptying (i.e. stricture, achalasia, erosive esophagitis, gastric ulcers)
- Inability to stand or sit upright for at least 30 to 60 minutes



• A diagnosis of GERD is not a contraindication to oral bisphosphonate use; however, severe esophagitis, Barrett's esophagus and esophageal ulcerations are reasons to by-pass a trial.

#### Contraindications/Precautions to ALL (oral and IV) bisphosphonates

Rationale to bypass a trial of bisphosphonates include:

- Severe renal impairment (CrCl < 35 ml/min)
- Severe dental disease (with or without frequent dental extractions)
- Severe gastrointestinal disorders (i.e. severe ulcerative colitis or Crohn's disease)

#### References

- 1. Prolia (denosumab) [prescribing information]. Thousand Oaks, CA: Amgen Inc; March 2020.
- 2. Xgeva (denosumab) [prescribing information]. Thousand Oaks, CA: Amgen Inc; June 2020
- 3. Hu MI, Glezerman IG, Leboulleux S, et al. Denosumab for treatment of hypercalcemia of malignancy. J Clin Endocrinol Metab 2014; 99:3144.
- 4. Management of osteoporosis in postmenopausal women: the 2021 position statement of The North American Menopause Society. Menopause 2021; 28:973
- 5. 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
- Terpos E, Zamagni E, Lentzsch S, et al. Treatment of multiple myeloma-related bone disease: recommendations from the Bone Working Group of the International Myeloma Working Group. Lancet Oncol 2021; 22:e119
- Terpos E, Zamagni E, Lentzsch S, et al. Treatment of multiple myeloma-related bone disease: recommendations from the Bone Working Group of the International Myeloma Working Group. Lancet Oncol 2021; 22:e119
- 8. Salagame U, Kliewer EV, Demers A, et al. Trends in Prescribing Menopausal Hormone Therapy and Bisphosphonates in Australia and Manitoba, Canada and Adherence to Recommendations. J Womens Health (Larchmt) 2020; 29:177
- 9. Saag KG, Pannacciulli N, Geusens P, et al. Denosumab Versus Risedronate in Glucocorticoid-Induced Osteoporosis: Final Results of a Twenty-Four-Month Randomized, Double-Blind, Double-Dummy Trial. Arthritis Rheumatol 2019; 71:1174
- 10. Ishiguro S, Ito K, Nakagawa S, et al. The clinical benefits of denosumab for prophylaxis of steroid-induced osteoporosis in patients with pulmonary disease. Arch Osteoporos 2017; 12:44
- 11. Chawla S, Henshaw R, Seeger L, et al. Safety and efficacy of denosumab for adults and skeletally mature adolescents with giant cell tumour of bone: interim analysis of an open-label, parallel-group, phase 2 study. Lancet Oncol 2013; 14:901

#### **Review History**

06/22/2022: Created and Reviewed June P&T, switched from CVS Standard to Custom criteria, updated approval duration for Prolia to 24 months; combined Prolia & Xgeva to single document. Effective 09/01/2022. 03/15/23 - Reviewed and updated for Mar P&T. Matched MH UPPL criteria. Effective 4/1/23.