



UTILIZATION MANAGEMENT MEDICAL POLICY

POLICY: Bone Modifiers – Xgeva Utilization Management Medical Policy

- Xgeva® (denosumab subcutaneous injection – Amgen)

REVIEW DATE: 03/22/2023

OVERVIEW

Xgeva, a receptor activator of nuclear factor kappa-B ligand inhibitor, is indicated for the following uses:¹

- **Giant cell tumor of bone**, treatment of adults and skeletally mature adolescents, with disease that is unresectable or where surgical resection is likely to result in severe morbidity.
- **Hypercalcemia of malignancy**, treatment of, that is refractory to bisphosphonate therapy.
- **Skeletal-related events**, prevention of, in patients with multiple myeloma and in those with bone metastases from solid tumors.

Another injectable formulation of denosumab is available, Prolia® (denosumab subcutaneous injection), but it is not included in this policy.²

Guidelines

Several guidelines address Xgeva.

- **Cancer:** Various guidelines from the National Comprehensive Cancer Network (e.g., breast cancer, prostate cancer, lung cancer, multiple myeloma) recommend Xgeva for the prevention of skeletal related adverse events.³⁻⁶
- **Hypercalcemia of Malignancy:** Guidelines from the Endocrine Society for the treatment of hypercalcemia of malignancy in adults (2023) have several recommendations.⁷ In adults with hypercalcemia of malignancy, treatment with Xgeva over an intravenous bisphosphonate is recommended.

POLICY STATEMENT

Prior Authorization is recommended for medical benefit coverage of Xgeva. Approval is recommended for those who meet the **Criteria** and **Dosing** for the listed indications. Extended approvals are allowed if the patient continues to meet the Criteria and Dosing. Requests for doses outside of the established dosing documented in this policy will be considered on a case-by-case basis by a clinician (i.e., Medical Director or Pharmacist). All approvals are provided for the duration noted below. In cases where the approval is authorized in months, 1 month is equal to 30 days. Because of the specialized skills required for evaluation and diagnosis of patients treated with Xgeva as well as the monitoring required for adverse events and long-term efficacy, approval requires Xgeva to be prescribed by or in consultation with a physician who specializes in the condition being treated.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Xgeva is recommended in those who meet one of the following criteria:

FDA-Approved Indications

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1. **Bone Metastases from Solid Tumors – Prevention of Skeletal-Related Events.** Approve for 1 year if the patient meets the following criteria (A, B, C, and D):

Note: Some examples of cancer in this clinical scenario include breast cancer, prostate cancer, and non-small cell lung cancer.

- A) Patient is ≥ 18 years of age; AND
- B) Patient has bone metastases; AND
- C) Patient with prostate cancer must have castration-resistant prostate cancer; AND

Note: This includes patients who have progressed after treatment with hormonal therapy or after surgical castration (e.g., bilateral orchiectomy). Examples of hormonal therapies for prostate cancer include Lupron Depot (leuprolide for depot suspension), Eligard (leuprolide acetate for injectable suspension), Trelstar (triptorelin pamoate for injectable suspension), or Zoladex (goserelin implant).

- D) Medication is prescribed by or in consultation with a hematologist or an oncologist.

Dosing. Approve 120 mg administered as a subcutaneous (SC) injection up to once every 4 weeks.

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2. **Giant Cell Tumor of Bone.** Approve for 1 year.

Dosing. Approve 120 mg subcutaneous (SC) up to once every 4 weeks with loading doses on Day 8 and Day 15 of Month 1.

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3. **Hypercalcemia of Malignancy.** Approve for 2 months if the patient meets the following criteria (A and B):

- A) Patient has a current malignancy; AND
- B) Patient has an albumin-corrected calcium (cCa) ≥ 11.5 mg/dL.

Dosing. Approve 120 mg subcutaneous (SC) up to once every 4 weeks with additional 120 mg doses on Days 8 and 15 of the first month of therapy.

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4. **Multiple Myeloma – Prevention of Skeletal-Related Events.** Approve for 1 year if the patient meets the following criteria (A and B):

- A) Patient is ≥ 18 years of age; AND
- B) The medication is prescribed by or in consultation with a hematologist or an oncologist.

Dosing. Approve 120 mg administered as a subcutaneous (SC) injection up to once every 4 weeks.

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Xgeva is not recommended in the following situations:

1. Coverage is not recommended for circumstances *not* listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

REFERENCES

1. Xgeva® subcutaneous injection [prescribing information]. Thousand Oaks, CA: Amgen; June 2020.
2. Prolia® subcutaneous injection [prescribing information]. Thousand Oaks, CA: Amgen; January 2023.
3. The NCCN Prostate Cancer Clinical Practice Guidelines in Oncology (version 1.2023 – September 16, 2022). © 2022 National Comprehensive Cancer Network, Inc. Available at: <http://www.nccn.org>. Accessed on March 23, 2023.
4. The NCCN Breast Cancer Clinical Practice Guidelines in Oncology (version 2.2023 – February 7, 2023). © 2023 National Comprehensive Cancer Network. Available at: <http://www.nccn.org>. Accessed on March 23, 2023.
5. The NCCN Multiple Myeloma Clinical Practice Guidelines in Oncology (version 3.2023 – December 8, 2022). © 2022 National Comprehensive Cancer Network. Available at: <http://www.nccn.org>. Accessed on March 23, 2023.
6. The NCCN Non-Small Cell Lung Cancer Clinical Practice Guidelines in Oncology (version 2.2023 – February 17, 2023). © 2023 National Comprehensive Cancer Network. Available at: <http://www.nccn.org>. Accessed on March 23, 2023.
7. Ghada El-Hajj Fuleihan Clines GA, Hu MI, et al. Treatment of hypercalcemia of malignancy in adults: an Endocrine Society Clinical Practice guideline. *J Clin Endocrinol Metab.* 2023;108(3):507-528.

HISTORY

Type of Revision	Summary of Changes	Review Date
Annual Revision	No criteria changes.	03/09/2022
Selected Revision	<p>Bone Metastases From Solid Tumors – Prevention of Skeletal-Related Events: Criteria changed from “patient with prostate cancer must have received at least one hormonal therapy” to “patient with prostate cancer must have castration-resistant prostate cancer.” In the Note, it was added that this includes patients who have progressed after treatment with hormonal therapy or after surgical castration (e.g., bilateral orchiectomy). The examples of hormonal therapies for prostate cancer remain in the Note.</p>	10/19/2022
Annual Revision	<p>Hypercalcemia of Malignancy: Requirements were deleted that the patient has tried at least one intravenous bisphosphonate therapy or that the patient has an estimated calculated creatinine clearance < 30 mL/min.</p>	03/22/2023