Prolia®/Xgeva® (denosumab)

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09/2014, 12/2014, 03/2015, 05/2015, 08/2015, 11/2015, 02/2016, 05/2016, 08/2016, 11/2016,

01/2017, 05/2017, 08/2017, 11/2017, 02/2018, 05/2018, 06/2018, 04/2019, 04/2020

I. Length of Authorization

Coverage will be provided for 12 months and may be renewed.

II. Dosing Limits

A. Quantity Limit (max daily dose) [NDC Unit]:

Prolia 60 mg/1 mL single-use prefilled syringe: 1 syringe every 6 months

Xgeva 120 mg/1.7 mL single-use vial:

Load: 4 vials per 28 days x 1 dose

Maintenance: 1 vial monthly

B. Max Units (per dose and over time) [HCPCS Unit]:

<u>Prolia</u>	All indications: • 60 billable units every 6 months
<u>Xgeva</u>	Giant Cell Tumor of Bone; Hypercalcemia of malignancy - Loading Dose: • 120 billable units on days 1, 8, 15, and 29 - Maintenance: • 120 billable units every 4 weeks Bone metastases from solid tumors; Multiple Myeloma: • 120 billable units every 4 weeks

III. Initial Approval Criteria^{1-3,5,9,14-24}

Site of care specialty infusion program requirements are met (refer to OHSU Health Services Site of Care Policy).

Prolia

Universal Criteria

- Patient must be supplementing with 1,000 mg of calcium and at least 400 IU of vitamin D daily;
 AND
- Patient must not have hypocalcemia; AND

Coverage is provided in the following conditions:

- Patient is at least 18 years of age; AND
- Patient must be at a high risk for fracture**; AND
- Pregnancy ruled out prior to starting therapy in women of child-bearing potential; AND

Osteoporosis in Men and Women †

- Women only: Patient must be post-menopausal; AND
- Patient has a documented diagnosis of osteoporosis indicated by one or more of the following:
 - Hip DXA (femoral neck or total hip) or lumbar spine T-score ≤-2.5 and/or forearm DXA 33% (one-third) of the radius; OR
 - T-score ≤-1 or low bone mass <u>and</u> a history of fragility fracture to the hip or spine; **OR**
 - T-score between -1 and -2.5 with a FRAX 10-year probability for major fracture ≥20% or hip fracture ≥3%; AND
- Documented treatment failure or ineffective response[±] to a minimum (12) month trial on previous therapy with bisphosphonates (oral or IV) such as alendronate, risedronate, ibandronate, or zoledronic acid; OR
- Patient has a documented contraindication* or intolerance to BOTH oral bisphosphonates AND intravenous (IV) bisphosphonates such as alendronate, risedronate, ibandronate, or zoledronic acid

Glucocorticoid-Induced Osteoporosis †

- Patient will be initiating or is continuing systemic glucocorticoid therapy at a daily dosage equivalent to ≥ 7.5 mg of prednisone and is expected to remain on glucocorticoid therapy for at least 6 months; AND
 - Documented treatment failure or ineffective response[±] to a minimum (12) month trial on previous therapy with bisphosphonates (oral or IV) such as alendronate, risedronate, ibandronate, or zoledronic acid; OR
 - Patient has a documented contraindication* or intolerance to BOTH oral bisphosphonates AND intravenous (IV) bisphosphonates such as alendronate, risedronate, ibandronate, or zoledronic acid

Osteoporosis treatment and prevention in prostate cancer patients †

- Documented Hip DXA (femoral neck or total hip) or lumbar spine T-score ≤-1 (or patient meets the diagnostic criteria for osteoporosis above); AND
- Patient must be receiving androgen deprivation therapy for non-metastatic prostate cancer

Osteoporosis treatment and prevention in breast cancer patients †

Patient must be receiving adjuvant aromatase inhibitor therapy for breast cancer

±Ineffective response is defined as one or more of the following:

- Decrease in T-score in comparison with baseline T-score from DXA scan
- Patient has a new fracture while on bisphosphonate therapy

**High risk for fractures include, but are not limited to, one or more of the following:

- History of an osteoporotic fracture as an adult
- Parental history of hip fracture
- Low BMI
- Rheumatoid arthritis
- Alcohol intake (3 or more drinks per day)
- Current smoking
- History of oral glucocorticoids ≥5 mg/d of prednisone (or equivalent) for >3 months (ever)

*Examples of contraindications to oral bisphosphonate therapy include the following:

- Documented inability to sit or stand upright for at least 30 minutes
- Documented pre-existing gastrointestinal disorder such as inability to swallow, Barrett's esophagus, esophageal stricture, dysmotility, or achalasia

Xgeva

Universal Criteria

Administer calcium and vitamin D as necessary to treat or prevent hypocalcemia; AND

Coverage is provided in the following conditions:

Prevention of skeletal-related events in patients with multiple myeloma OR bone metastases from solid tumors †

- Patient is at least 18 years of age; AND
 - Patient must try and have an inadequate response, contraindication, or intolerance to at least a three (3) month trial of Zoledronic Acid; OR
 - Patient has metastatic breast cancer, metastatic castration-resistant prostate cancer, or metastatic lung cancer (both SCLC and NSCLC)

Giant Cell Tumor of the Bone †

- Patient must be an adult or at least 13 years of age and skeletally mature; AND
 - Disease is unresectable or surgical resection is likely to result in severe morbidity; OR
 - For metastatic disease ‡; AND
 - Used as a single agent; OR
 - For localized disease ‡; AND
 - Used as a single agent; OR
 - In combination with interferon alpha or radiation therapy

Hypercalcemia of malignancy †

- Patient is at least 18 years of age; AND
- Patient must have a diagnosis of cancer (malignancy); AND
 - Patient must have a diagnosis of refractory hypercalcemia of malignancy defined as an albumin-corrected calcium of >12.5 mg/dL (3.1 mmol/L) despite treatment with a minimum seven (7) day trial on previous therapy with intravenous (IV) bisphosphonates such as ibandronate or zoledronic acid; OR
 - Patient has a documented contraindication or intolerance to intravenous (IV)
 bisphosphonates such as ibandronate or zoledronic acid

† FDA Approved Indication(s); ‡ Compendia recommended indication(s)

IV. Renewal Criteria^{1-3,5,9,14-24}

Coverage can be renewed based on the following criteria:

- Patient continues to meet universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; AND
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include the
 following: severe symptomatic hypocalcemia, osteonecrosis of the jaw, atypical femoral
 fractures, dermatological adverse reactions, severe infection, severe
 hypersensitivity/anaphylaxis, musculoskeletal pain, etc.; AND

Prolia

- Disease response as indicated by one or more of the following:
 - Absence of fractures
 - o Increase in bone mineral density compared to pretreatment baseline; AND

Osteoporosis in Men and Women ONLY:

- After 5 years of treatment, patient will have a repeat DXA performed; AND
 - Patients with low-to moderate risk disease will have therapy changed to an oral or IV bisphosphonate unless there is a contraindication or intolerance to both dosage forms

Xgeva

- Disease response as indicated by the following:
 - Multiple Myeloma OR Bone metastases from solid tumors: absence/delay in skeletalrelated events (e.g., pathologic fracture, radiation therapy to bone, surgery to bone, or spinal cord compression)
 - Giant Cell Tumor of the Bone: tumor response with disease stabilization or decrease in size or spread of tumor
 - o <u>Hypercalcemia of Malignancy</u>: corrected serum calcium ≤ 11.5 mg/dL

V. Dosage/Administration^{1,2}

Prolia

Indication	Dose
All indications	60 mg subcutaneously by a health care provider every 6 months

Xgeva

Indication	Dose
Bone metastases from solid tumors and Multiple Myeloma	120 mg subcutaneously by a health care provider every 4 weeks
Giant Cell Tumor of Bone	120 mg subcutaneously by a health care provider every 4 weeks with additional 120 mg doses on Days 8 and 15 of the first month of therapy.
Hypercalcemia of malignancy	120 mg subcutaneously by a health care provider every 4 weeks with additional 120 mg doses on Days 8 and 15 of the first month of therapy.

VI. Billing Code/Availability Information

HCPCS Code:

• J0897 – Injection, denosumab, 1 mg; 1 mg = 1 billable unit

NDC:

- Prolia 60 mg/1 mL single-use prefilled syringe: 55513-0710-XX
- Xgeva 120 mg/1.7 mL single-use vial: 55513-0730-XX

VII. References

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Appendix 1 – Covered Diagnosis Codes

Prolia

ICD-10	ICD-10 Description	
C50.011- C50.929	Malignant neoplasms of breast	
C61	Malignant neoplasm of prostate	
M80.00XA- M80.08XS	Age-related osteoporosis with current pathological fracture	
M80.80XA- M80.88XS	Other osteoporosis with current pathological fracture	
M81.0	Age-related osteoporosis without current pathological fracture	
M81.6	Localized osteoporosis [Lequesne]	
M81.8	Other osteoporosis without current pathological fracture	
M85.80	Other specified disorders of bone density and structure, unspecified site	
M85.851	Other specified disorders of bone density and structure, right thigh	
M85.852	Other specified disorders of bone density and structure, left thigh	
M85.859	Other specified disorders of bone density and structure, unspecified thigh	
M85.88	Other specified disorders of bone density and structure, other site	
M85.89	Other specified disorders of bone density and structure, multiple sites	
T38.0X5A	Adverse effect of glucocorticoids and synthetic analogues, initial encounter	
T38.0X5S	Adverse effect of glucocorticoids and synthetic analogues, sequela	

Xgeva

ICD-10	ICD-10 Description	
C00-C14	Malignant neoplasms of lip, oral cavity and pharynx	
C15-C26	Malignant neoplasms of digestive organs	
C30-C39	Malignant neoplasms of respiratory and intrathoracic organs	
C40-C41	Malignant neoplasms of bone and articular cartilage	
C43-C44	Melanoma and other malignant neoplasms of skin	
C45-C49	Malignant neoplasms of mesothelial and soft tissue	
C50.011- C50.929	Malignant neoplasms of breast	
C51-C58	Malignant neoplasms of female genital organs	
C60-C63	Malignant neoplasms of male genital organs	
C64-C68	Malignant neoplasms of urinary tract	
C69-C72	Malignant neoplasms of eye, brain and other parts of central nervous system	
C73-C75	Malignant neoplasms of thyroid and other endocrine glands	

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ICD-10	ICD-10 Description	
C7A.00- C7A.8	Malignant neuroendocrine tumors	
C7B.00- C7B.8	Secondary neuroendocrine tumors	
C76-C80	Malignant neoplasms of ill-defined, other secondary and unspecified sites	
C81	Hodgkin lymphoma	
C82	Follicular lymphoma	
C83	Non-follicular lymphoma	
C84	Mature T/NK-cell lymphomas	
C85	Other specified and unspecified types of non-Hodgkin lymphoma	
C86	Other specified types of T/NK-cell lymphoma	
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas	
C90.00	Multiple myeloma not having achieved remission	
C90.02	Multiple myeloma, in relapse	
C90.10	Plasma cell leukemia not having reached remission	
C90.11	Plasma cell leukemia in remission	
C90.12	Plasma cell leukemia in relapse	
C90.20	Extramedullary plasmacytoma not having reached remission	
C90.21	Extramedullary plasmacytoma in remission	
C90.22	Extramedullary plasmacytoma in relapse	
C90.30	Solitary plasmacytoma not having achieved remission	
C90.31	Solitary plasmacytoma in remission	
C90.32	Solitary plasmacytoma in relapse	
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	
D00-D09	In situ neoplasms	
D10-D36	Benign neoplasms, except benign neuroendocrine tumors	
D3A.00- D3A.8	Benign neuroendocrine tumors	
D37-D44	Neoplasm of uncertain behavior of oral cavity and digestive organs - Neoplasm of uncertain behavior of endocrine glands	
D48	Neoplasm of uncertain behavior of other and unspecified sites	
D49.0- D49.9	Neoplasms of unspecified behavior	
E83.52	Hypercalcemia	
Z85	Personal history of malignant neoplasm	
Z85.528	Personal history of other malignant neoplasm of kidney	

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD), Local Coverage Determinations (LCDs), and Articles may exist and compliance with these policies is required where applicable. They can be found at: http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/Article):

Prolia and Xgeva

Jurisdiction(s): 6, K	NCD/LCD Document (s): A52399	
https://www.cms.gov/medicare-coverage-database/search/article-date-		
search.aspx?DocID=A52399&bc=gAAAAAAAAAAAAA===		

Jurisdiction(s): N	NCD/LCD Document (s): L33270	
https://www.cms.gov/medicare-coverage-database/search/lcd-date-		
search.aspx?DocID=L33270&bc=gAAAAAAAAAAAA===		

Jurisdiction(s): 15	NCD/LCD Document (s): A56534	
https://www.cms.gov/medicare-coverage-database/search/article-date-		
search.aspx?DocID=A56534&bc=gAAAAAAAAAAAAA==		

Jurisdiction(s): N	NCD/LCD Document (s): A57603	
https://www.cms.gov/medicare-coverage-database/search/article-date-		
search.aspx?DocID=A57603&bc=gAAAAAAAAAAAAA==		

Medicare Part B Administrative Contractor (MAC) Jurisdictions			
Jurisdiction	Applicable State/US Territory	Contractor	
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC	
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC	
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)	
6	MN, WI, IL	National Government Services, Inc. (NGS)	
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.	
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)	
N (9)	FL, PR, VI	First Coast Service Options, Inc.	
J (10)	TN, GA, AL	Palmetto GBA, LLC	
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC	
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.	
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)	
15	кү, он	CGS Administrators, LLC	