



## Pharmacologic Agents for Treatment of Osteoporosis

### SCAN Formulary Drugs

Medication	2023 Formulary Status		2024 Formulary Status		Dosing & Administration	Adverse Drug Reactions
	Tier	UM	Tier	UM		
<b>Bisphosphonates</b>						
<i>alendronate tabs</i>	1		1		<ul style="list-style-type: none"> <li>GIO* prevention for men: 5mg PO QD</li> <li>GIO prevention: 5mg PO QD for women receiving estrogen and 10mg PO QD in women not receiving estrogen</li> </ul>	Abdominal pain, esophagitis, bone pain, muscle pain, nausea
<i>alendronate oral soln</i>	2		2		<ul style="list-style-type: none"> <li>Osteoporosis treatment in men: 10mg PO QD or 70mg PO QW (every week)</li> <li>PMO* prevention: 35 mg PO QW or 5mg PO QD</li> <li>PMO treatment: 70mg PO QW or 10mg PO QD</li> </ul>	Not recommended if CrCl is less than 35 ml/min
<i>ibandronate oral</i>	2		2		Oral: PMO prevention & treatment: 150mg PO monthly or 2.5mg PO QD	Nausea, fever, vomiting, dyspnea (not recommended if CrCl is less than 35 ml/min)
<i>risedronate</i>	3		3		<ul style="list-style-type: none"> <li>GIO (men and women): 5mg PO QD</li> <li>Osteoporosis treatment in men: 35mg PO QW</li> <li>PMO prevention &amp; treatment: 5mg PO QD or 35mg PO QW or 75mg/day PO for 2 days of each month or 150mg PO monthly.</li> </ul>	Abdominal pain, arthralgia, diarrhea, nausea, rash
<b>Selective Estrogen Receptor Modifying Agents</b>						
<i>rалoxifene</i>	3		3		PMO prevention & treatment: 60mg PO QD	Hot flashes, arthralgia, sinusitis, flu like syndrome, headache



Estrogens (Indicated for Osteoporosis prevention)						
<i>estradiol oral</i>	2		2		0.5mg PO daily	Peripheral edema, nausea/ vomiting, breast tenderness
<i>estradiol patches, dotted, lyllana</i>	3		2		Transdermal system: start at 0.025mg/day once or twice weekly	
<i>estradiol / norethindrone, amabelz, mimvey</i>	3		2		0.5mg / 0.1mg – 1mg / 0.5mg PO QD	
<i>norethindrone acetate / ethinyl estradiol, fyavolv, jinteli</i>	3		2		0.5mg / 2.5mcg - 1mg / 5mcg PO QD	
PREMARIN ORAL (conjugated estrogens)	3		3		0.3 – 0.625 mg PO QD	
PREMPRO, PREMPHASE (medroxy-progesterone / conjugated estrogens)	3		3		Start at 0.3mg / 1.5mg PO QD	
Calcitonin						
<i>calcitonin-salmon nasal</i>	2		2		1 spray (200 IU) / day, alternating nostrils	Nasal symptoms (e.g., nasal crusts, dryness, redness, nasal sores, irritation, itching, soreness, infection)
Parathyroid Hormone						
FORTEO (teriparatide)	5	[PA]	5	[PA]	GIO (men and women), PMO treatment: 20mcg SC daily	Hypertension, arthralgia, rhinitis, nausea, dizziness, pain, asthenia, headache



<i>teriparatide</i>	5	[PA]	5	[PA]	GIO (men and women), PMO treatment: 20mcg SC daily	Hypertension, arthralgia, rhinitis, nausea, dizziness, pain, asthenia, headache
TYMLOS <i>(abaloparatide)</i>	5	[PA]	5	[PA]	80mcg SC daily	Hypercalciuria, dizziness, nausea, headache, and palpitations
<b>RANK Ligand (RANKL) Inhibitor</b>						
PROLIA <i>(denosumab)</i>	4	[PA]	4	[PA]	Treatment of PMO and Osteoporosis in men: 60mg SC every 6 months	Back pain, arthralgia, extremity pain

\*GIO: glucocorticoid-induced osteoporosis

PMO: postmenopausal osteoporosis

Brand-name drugs are capitalized and generic drugs are listed in lower-case italics

[PA] = Prior Authorization



## Osteoporosis Guidelines References

Osteoporosis Guidelines adapted from:

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10. Camacho, P., Petak, S., Binkley, 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.*, 26 (2020). doi: 10.4158/GL-2020-0524SUPPL.