

GRADE

1 • Strong For

2 • Suggest For

2- • Suggest Against

Ungraded / Best Practice

1 Who to Treat

1

Treat postmenopausal women at **high fracture risk** — especially those with a **recent fracture** — with pharmacologic therapy; benefits outweigh the risks.

2 First-Line: Bisphosphonates & Denosumab

1

Bisphosphonates (alendronate, risedronate, zoledronic acid, ibandronate) as initial therapy for high fracture risk — ibandronate not adequate for hip/nonvertebral risk reduction. Reassess fracture risk at **3–5 years**; continue if still high risk, consider a **bisphosphonate holiday** (up to 5y) if low-to-moderate risk.

1

Denosumab 60 mg SC every 6 months as an alternative initial therapy for high fracture risk — **no drug holiday** (effects reverse by 6 months if delayed). Reassess at **5–10 years**; continue or switch therapy if still high risk.

6PS

Never stop or delay denosumab without transitioning to a follow-on antiresorptive (bisphosphonate, hormone therapy, or SERM) — prevents rebound bone turnover, rapid BMD loss, and fracture risk.

3 Anabolic Therapy — Very High Risk

1

Teriparatide or abaloparatide for up to **2 years** in very high risk (severe or multiple vertebral fractures); follow with an antiresorptive to maintain BMD gains.

1

Romosozumab 210 mg SC monthly for up to **1 year** in very high risk (T-score < -2.5 + fracture, or multiple vertebral fractures); **avoid** if high CV/stroke risk (prior MI or stroke). Follow with an antiresorptive.

4 Other Therapies

Therapy	Use Case
SERMs (raloxifene, bazedoxifene)	Vertebral fracture reduction if low VTE risk and bisphosphonates/denosumab aren't appropriate, or high breast cancer risk
Hormone therapy / tibolone	< 60y or < 10y postmenopausal, low VTE risk, bothersome vasomotor symptoms, no MI/stroke/breast cancer history, willing to take — tibolone unavailable in US/Canada
Calcitonin (nasal spray)	Last-line only — when other therapies are not tolerated or appropriate

5 Adjuncts & Monitoring

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Calcium + vitamin D as an adjunct to osteoporosis therapy; if bisphosphonates, estrogen, SERMs, denosumab, tibolone, teriparatide, and abaloparatide are all not tolerated, daily calcium + vitamin D alone **reduces hip fracture risk**.

2

Monitor DXA (spine + hip) every **1–3 years** to assess treatment response. Bone turnover markers (CTX for antiresorptive therapy, P1NP for anabolic therapy) are an alternative to flag poor response or nonadherence.