

OBJECTIVE

Alberta clinicians will understand who and how to screen, assess, diagnose, treat and manage osteoporosis and/or fracture risk.

TARGET POPULATION

All men and women 50 years of age and older

EXCLUSIONS

All men and women under 50 years of age

This guideline is partially adapted from Papaioannou A, Morin S, Cheung AM, et al; for the Scientific Advisory Council of Osteoporosis Canada. 2010 clinical practice guidelines for the diagnosis and management of osteoporosis in Canada: Summary. CMAJ. 2010;182:1864-73.

KEY MESSAGES

- The goal is to find patients at high risk of fracture, not just low bone mineral density (BMD) (see [Screening and Treatment for Osteoporosis and Fracture Risk Algorithm](#) on page 2).
 - Suggested 10-year fracture risk assessment tools:
 - CAROC:
<http://www.osteoporosis.ca/multimedia/FractureriskTool/index.html#.Home>
 - FRAX: www.sheffield.ac.uk/FRAX/tool.jsp?country=19
- BMD results and repeated testing alone provide little if any value to drive long term management decisions. BMD should be used as a supporting tool only.
- For those patients previously diagnosed with osteoporosis, assess and manage based on the patient's absolute risk of osteoporosis-related fractures.
- Patients with a past fragility fracture have a higher risk for future fractures.
- Lifestyle modification and pharmacologic therapy recommendations may need to be individualized.

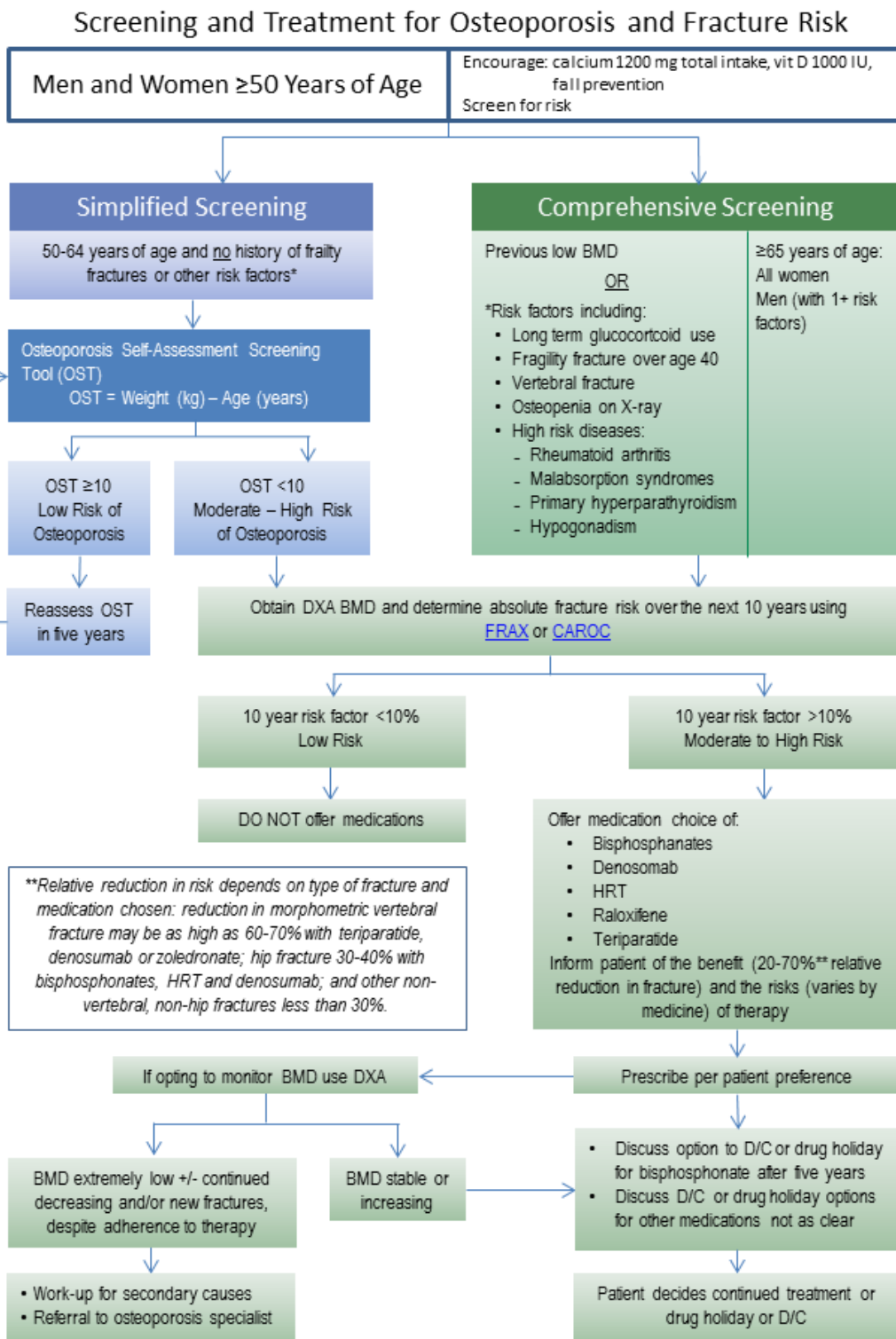
PREVENTION STRATEGIES

- ✓ Vitamin D intake: 1000 IU supplement daily
- ✓ Exercise, awareness of falls and fall prevention
- ✓ Smoking cessation and reduction in alcohol use to less than three drinks per day
- ✓ Calcium intake: 1200mg/day from all sources

IMPLEMENTATION CONSIDERATIONS

- Consider flagging patients 50 years of age and older to screen with the OST tool for possible risk of osteoporosis and need for further (BMD) testing and fracture risk assessment.

ALGORITHM



****Relative reduction in risk depends on type of fracture and medication chosen: reduction in morphometric vertebral fracture may be as high as 60-70% with teriparatide, denosumab or zoledronate; hip fracture 30-40% with bisphosphonates, HRT and denosumab; and other non-vertebral, non-hip fractures less than 30%.**

If opting to monitor BMD use DXA

BMD extremely low +/- continued decreasing and/or new fractures, despite adherence to therapy

BMD stable or increasing

- Work-up for secondary causes
- Referral to osteoporosis specialist