

Assessment Recommended Elements of Clinical Assessment

Recommendations for Clinical Assessment



2010 Clinical Practice Guidelines for the Diagnosis and Management of Osteoporosis in Canada

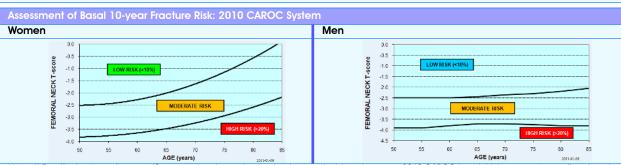
This guide has been developed to provide healthcare professionals with a quick-reference summary of the most important recommendations from the **2010 Clinical Practice Guidelines for the Diagnosis and Management of Osteoporosis in Canada.** For more detailed information, consult the full guideline document at www.osteoporosis.ca.

	History	□ Parental hip fracture □ Glucocorticoid use □	I High alcohol intake (≥3 I Rheumatoid arthritis I Inquire about falls in the I Inquire about gait and	e previous 12 months				
	Physical Examination	 □ Measure weight (weight loss of > 10% since age 25 is signif □ Measure height annually (prospective loss > 2cm) (historical □ Measure rib to pelvis distance ≤ 2 fingers' breadth □ Measure occiput-to-wall distance (for kyphosis) > 5cm □ Assess fall risk by using Get-Up-and-Go Test (ability to get ou and return) 	Screening for vertebral fractures arms, walk several steps					
	Recommended Biochemical Tests for Patients Being Assessed for Osteoporosis							
	□ Calcium, co □ Complete b □ Creatinine □ Alkaline pho	1 Calcium, corrected for albumin 1 Complete blood count 2 Creatinine 3 Alkaline phosphatase □ Thyroid stimulating hormone (TSH) □ Serum protein electrophoresis for patients with vertebral fractures □ 25-hydroxy vitamin D (25-OH-D)*						
	*Should be measured after 3-4 months of adequate supplementation and should not be repeated if an optimal level ≥75 nmol/L is achieved.							
	Indications for	BMD Testing						
	Older Adults (d	age ≥ 50 years)	Younger Adults	(age < 50 years)				
 All women and men age ≥ 65 years Menopausal women, and men aged 50-64 years with clinical risk factors for fracture: Fragility fracture after age 40 Prolonged glucocorticoid use† Other high-risk medication use* Parental hip fracture Vertebral fracture or osteopenia identified on X-ray Current smoking High alcohol intake Low body weight (< 60 kg) or major weight loss (>10% of weight at age 25 years) 			sal women, and men aged 50-64 years with clinical risk factors for fracture: fracture after age 40 ed glucocorticoid uset gh-risk medication use* hip fracture li fracture or osteopenia identified on X-ray smoking ohol intake ly weight (< 60 kg) or major weight loss (>10% of weight at age 25 years) • Prolonged use of glucocorticoids* • Use of other high-risk medicationst • Hypogonadism or premature menopause • Malabsorption syndrome • Primary hyperparathyroidism • Other disorders strongly associated with rapid bone loss and/or fracture					

 $^{t} \ge 3$ months in the prior year at a prednisone equivalent dose ≥ 7.5 mg daily; *e.g., aromatase inhibitors, androgen deprivation therapy.

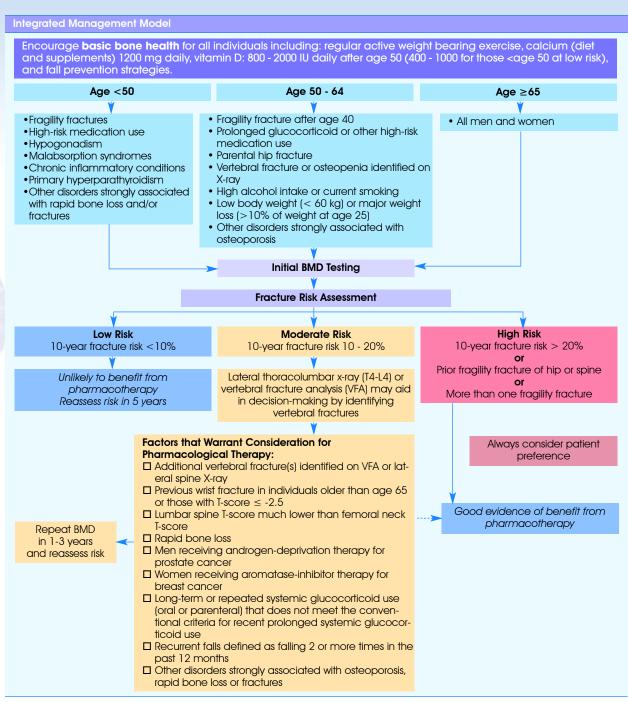
 Other disorders strongly associated with osteoporosis such as primary hyperparathyroidism, type 1 diabetes, osteogenesis imperfecta, uncontrolled hyperthyroidism, hypogonadism or premature menopause (< 45 years), Cushing's disease, chronic malnutrition or malabsorption, chronic liver disease, COPD and

chronic inflammatory conditions (e.g., inflammatory bowel disease)



Note: 1) Fragility fracture after age 40 or recent prolonged systemic glucocorticoid use increases 2010 CAROC basal risk by one category (i.e., from low to moderate or moderate to high).

- 2) Using this model in a patient on therapy only reflects the theoretical risk of a hypothetical patient who is treatment naïve and does not reflect the risk reduction associated with therapy.
- 3) Femoral neck T-score should be derived from NHANES III Caucasian women reference database.
- 4) Individuals with a fragility fracture of the vertebra or hip, or with more than one fragility fracture are at high fracture risk.



First Line Therapies with Evidence for Fracture Prevention in Postmenopausal Women*								
Type of Fracture	Antiresorptive Therapy						Bone Forma- tion Therapy	
	Bisphosphonates				Estrogen**	Teriparatide		
	Alendronate	Risedronate	Zoledronic Acid	Denosumab	Raloxifene	(Hormone Therapy)	renparanas	
Vertebral	✓	✓	✓	✓	✓	✓	✓	
Hip	✓	✓	✓	✓	-	✓	-	
Non-vertebral [†]	✓	✓	✓	✓	-	✓	✓	

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