Clinical Question 2

In order for our osteoporosis patients to understand the balance of risks and benefits, it is crucial for them to understand the impact of osteoporotic fractures on their quality of life.

How can we best explain the impact of osteoporosis to our patients?



1

Learning Objectives

Upon completion of this module, participants will be better able to:



Describe the morbidity, mortality and economic burden of illness associated with osteoporosis in Canada



Explain the factors that determine osteoporotic fracture risk



Communicate to patients the impact of osteoporotic fractures on their quality of life and the actions they can take to reduce risk

Clinical Question 2

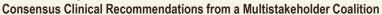


• How can we best explain the impact of osteoporosis to our patients?

Osteoporotic fractures begin to occur in women in their 60s. Early fractures include vertebral fractures with consequences of kyphosis, back pain, and disfigurement. Later in life, hip fractures and other major fractures create dependency and frailty with frequent institutionalization. Patients need to understand that fragility fractures are frequent in elderly patients, deteriorate our seniors' quality of life and can be effectively prevented.

3

Secondary Fracture Prevention:





Communicate 3 simple messages to people aged 65 years or older with a hip or vertebral fracture (as well as to their family/caregivers) consistently throughout the fracture care and healing process:

MESSAGE

Their broken bone likely means they have osteoporosis and are at high risk for breaking more bones. especially over the next 1-2 years;

MESSAGE 2

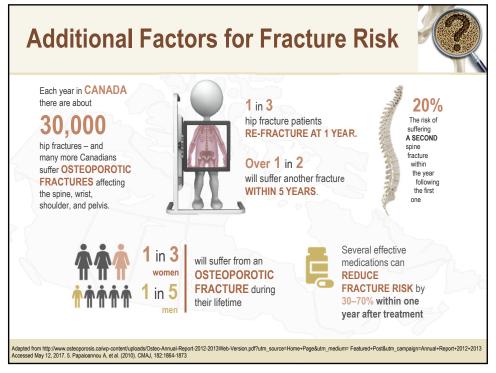
Breaking bones means they may suffer declines in mobility or independence—for example, have to use a walker, cane, or wheelchair, or move from their home to a residential facility, or stop participating in favorite activities and they will be at higher risk of dying prematurely;

MESSAGE 3

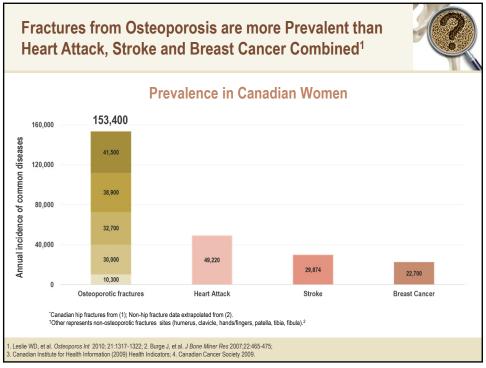


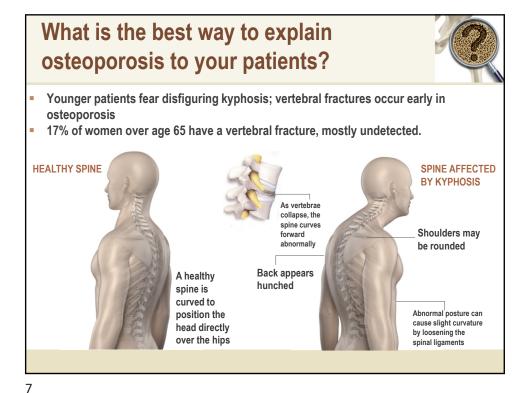
Most importantly, there are actions they can take to reduce their risk, including regular follow-up with their usual health care provider as for any other chronic medical condition.

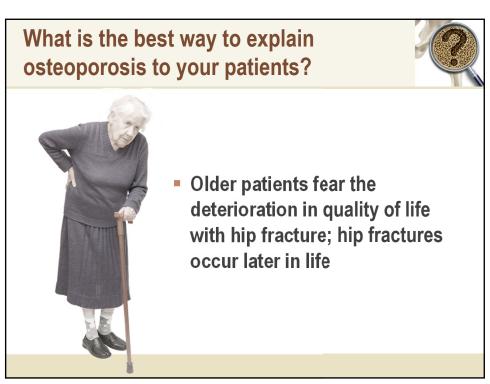
Kiel DP et al .IRMR 2019

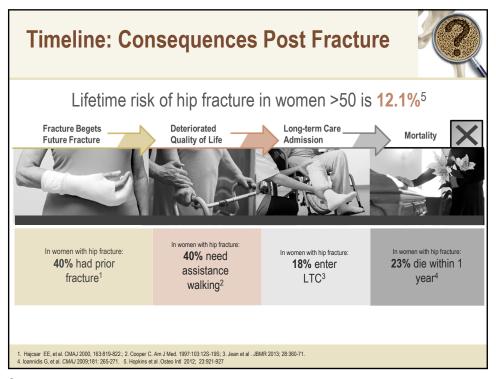


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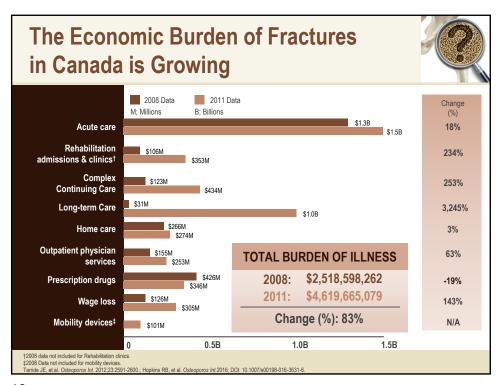








9



The Effect of Osteoporosis Treatment on Mortality



30-70% REDUCTION

Effective medications reduce subsequent fractures by 30% to 70% as early as one year after treatment initiation¹

Fragility fractures cause substantial morbidity and mortality, effective osteoporosis treatment prevents both vertebral and nonvertebral fractures²



Meta-analysis in ~40,000 subjects showed that treatment of osteoporosis with agents with proven vertebral and nonvertebral fracture efficacy reduces overall mortality by ~10%²

1. Papaioannou A, et al. CMAJ. 2010;182(17):1864-1873.

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