Care gap following osteoporosis-related fractures in Canada





Osteoporosis-related fractures most commonly occur in the forearm, hip, spine, upper arm and pelvis. These are fracture sites most commonly affected by osteoporosis, a condition causing bones to become weak and fracture easily.



Many osteoporosis-related fractures occur with a fall, but simple movements like bending, sneezing, and coughing can also lead to a fracture. Individuals with these fractures have an increased risk of further fractures and often face life changing impacts or even death. The older population and those with a hip fracture are particularly impacted.



The care received in the year following an osteoporosis-related fracture-including screening and treatment-is critical in preventing future fractures. In Canada, and other countries, there is a gap between the recommended care practices and the care provided. Closing this gap would help lower the health impacts and deaths associated with osteoporosis-related fractures, especially with hip fractures, and help prevent future fractures.

According to the data from the Public Health Agency of Canada's Canadian Chronic Disease Surveillance System (CCDSS):¹

THE FRACTURE BURDEN

In 2019–2020, there were 665 osteoporosis-related fractures per 100,000 Canadians aged 40+. Of these fractures, 156 occurred in the hip. Hip fractures are the most serious and most fatal osteoporosis-related fracture.







THE CARE GAP: BEST PRACTICES VERSUS ACTUAL CARE

In an effort to reduce the risk of future fractures, the Canadian clinical practice guidelines on the diagnosis and management of osteoporosis recommend:²



A bone mineral density (BMD) test in adults who had a fragility³ fracture after age 40

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Osteoporosis medication for all adults aged 50+ who have experienced a fragility fracture of the hip or the spine, or more than one fracture



In 2018–2019, the majority of Canadians who sustained any osteoporosis-related fractures did not receive adequate osteoporosis management within the year following their fracture.

- Only **15%** aged 40+ had a **BMD test**
- Only **21%** aged 65+⁴ received a **prescription** for osteoporosis medication

Among the Canadians who received osteoporosis management care, **men were:**

- **3.5x** less likely to have a BMD test than women
- $\mathbf{3.5x}$ less likely to receive osteoporosis medication than women

KNOW YOUR FRACTURE RISK FACTORS



ACKNOWLEDGEMENTS

SOURCES :

- Public Health Agency of Canada, Canadian Chronic Disease Surveillance System (CCDSS), August 2022. Available from: https://health-infobase.canada.ca/ccdss/data-tool/.
- 2. Papaioannou A, Morin S, Cheung AM, Atkinson S, Brown JP, Feldman S, et al. 2010 clinical practice guidelines for the diagnosis and management of osteoporosis in Canada: summary. CMAJ 2010 Nov; 182(17):1864-73.
- Fragility fractures occur during activities such as reaching, bending, twisting, coughing or sneezing or following a minor trauma such as falling from a standing height or at walking speed.
- 4. The information on osteoporosis medication prescription claims varied extensively across the Canadian provinces and territories and was only available nationally in adults aged 65+

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