

US older women three times as likely to be treated for osteoporosis as men

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Older women in the US are three times as likely to be treated for osteoporosis as men of the same age, reveals research published online in the *Journal of Investigative Medicine*.

This is a particular issue for men aged 80+, most of whom meet the criteria for treatment, the findings show.

Some 10 million people in the US have osteoporosis, and there are 2 million associated [fractures](#) every year, at a cost of US\$19 million. And these figures are expected to rise to 3 million fractures at a cost of \$25 million by 2025 as the population ages.

Osteoporosis is a major health issue for men as their risks of death and illness after a [hip fracture](#) are higher than those of [women](#), say the researchers.

But who would benefit most from testing and treatment remains a matter of debate, and it has been several years since [treatment guidelines](#) for men have been published.

The researchers compared the screening and treatment of osteoporosis in 13,704 men and women aged 70+ at one Veterans Affairs medical centre from January 2000 to August 2010.

Management included DXA scans, which measure bone mineral density; vitamin D level assessment; and treatment with vitamin D/calcium

supplements and/or bisphosphonates.

They looked at two groups: 11,604 men and 463 women with age alone as a risk factor for hip fracture; and 1637 men at higher risk of osteoporosis, because of a previous fracture, steroid treatment, or hormone (androgen) deprivation therapy.

The researchers scored the risk of an osteoporotic hip fracture over the next 10 years, using a shortened version of a validated risk assessment tool (FRAX). This included factors such as ethnicity, age, weight and height, and previous fractures.

As expected, increasing age was associated with a heightened risk of fracture over the next decade for both men and women.

But around half (48%) of 75-79 year old men, with age alone as a risk factor, had a 10-year hip fracture risk of 3 per cent or higher, meaning they met the threshold criteria for treatment. This rose to 88 per cent of those aged 80 and above.

And among men at higher risk, the proportion of those with a 10 year hip fracture risk ranged from 69 to 95 per cent.

Management was less than optimal in both sexes. But men were significantly less likely than women to be tested and treated for osteoporosis, particularly those aged 80 above, even when they met the criteria for treatment.

When categorised by age alone, women were more than five times as likely to have a DXA scan (63% vs 12%) and around twice as likely to have their vitamin D levels assessed (39% vs 18%).

They were also more than three times as likely to be given

calcium/vitamin D supplements (63% vs 20%) and significantly more likely to be treated with bisphosphonates (44% vs 5%).

Among men aged 80+, only between 10 and 13 per cent had had a bone density scan and fewer than one in 10 had been treated with bisphosphonates.

What's more, the testing and treatment of osteoporosis among men at higher hip fracture risk was "strikingly low," particularly those who had already had a hip fracture, note the researchers.

This is an observational study, and as such, can't establish cause, added to which veterans tend to have a higher rate of underlying illnesses, and so the findings might not be more widely applicable, caution the researchers.

It isn't clear why older men in the US don't get screened and treated for osteoporosis, they say. It might be that clinicians aren't aware of osteoporosis screening guidelines for men, or that busy doctors prioritise other illnesses in clinic, they suggest.

But their findings suggest that previous guidelines are "inadequate in effectively identifying older men who might benefit from evaluation for [osteoporosis](#) and fracture prevention [treatment](#)," they write.

"We believe that there is a need for developing strategies to improve the evaluation and management for all older men, particularly among elderly men with a very high risk of fracture," they conclude.

More information: Radhika Rao Narla et al, Suboptimal osteoporosis evaluation and treatment in older men with and without additional high-risk factors for fractures, *Journal of Investigative Medicine* (2019). [DOI: 10.1136/jim-2018-000907](https://doi.org/10.1136/jim-2018-000907)

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