

Men face greater risk of death following osteoporosis-related fractures

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Men face a greater risk of mortality following a fracture related to osteoporosis, a common disease where the bones become weak and brittle, according to new research presented today at the 2017 Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS).

"Although women are more likely to sustain an initial, <u>osteoporosis</u> -related 'fragility fracture,' men have similar rates of incurring a subsequent fracture and are at greater risk for mortality after these injuries," said lead study author Alan Zhang, MD, an orthopaedic surgeon and assistant professor at the University of California, San Francisco.

Osteoporosis is a major health problem affecting more than 44 million Americans and contributing to an estimated 2 million bone fractures per year. Because diminished estrogen can contribute to bone loss, menopause-age women have traditionally been the focus of osteoporosis prevention efforts.

In this study, researchers reviewed the Medicare Standard Analytic Files (SAF) database to identify patients, age 65 and older, who had a diagnosis of osteoporosis and sustained a fragility fracture between 2005 and 2009. Patient records were stratified by sex and the location of a first fracture. In addition, the incidence of second <u>fragility fractures</u> was compared between men and women during a three-year follow-up period, as well one-year mortality rates.



Of the more than 1 million patients identified with a diagnosis of osteoporosis in the analysis, 87 percent were female and 13 percent male. Among these patients:

- Women had a five-fold higher risk for an initial fragility fracture compared to men, and yet the relative risk for a subsequent fragility fracture within three years of the first fracture was slightly lower for women compared to men.
- Men who required surgical treatment for an initial fragility fracture were more likely to suffer a subsequent fragility fracture within three years. The exception was in men who suffered a vertebral (spinal) compression fracture (in these instances the risk was comparable).
- Men had higher one-year mortality rates for almost all fracture types studied (18.7 percent in men versus 12.9 percent in women). The only exception was ankle fractures where one-year <u>mortality rates</u> between men and women were comparable (8.1 percent for men and 8.4 percent for <u>women</u>).

"The key findings from this study show that patient sex can affect the risk for sustaining a fragility fracture related to osteoporosis," said Dr. Zhang. "These findings may be used to better counsel patients after an initial fragility fracture and to improve predictive tools for monitoring subsequent injuries."

Last year, AAOS joined the American Orthopaedic Association, the Orthopaedic Trauma Association (OTA) and the International Geriatric Fracture Society (IGFS) in drafting and approving new patient guidelines for preventing fragility fractures. "Orthopaedic Care of Patients with Fragility Fractures" recommends that physicians proactively screen, monitor, and if necessary, assist in getting treatment for all elderly and other at-risk patients for osteoporosis following an initial bone fracture to prevent subsequent fractures.



More information: Study Abstract: <u>submissions.mirasmart.com/Veri</u> ... on/temp/rad308B1.pdf

Provided by American Academy of Orthopaedic Surgeons

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