

Impact of osteoporosis on the risk of dementia in almost 60,000 patients

August 20 2018

Osteoporosis is estimated to affect 200 million women across the world. In Germany, the prevalence of this chronic disease among people aged 50 years and older is around 15%. In recent decades, several authors have analyzed the impact of osteoporosis on the risk of cognitive decline, but, most of these studies have been conducted outside Europe. The goal of the present study was to investigate the impact of osteoporosis on the risk of developing dementia in almost 60,000 patients followed for up to 20 years in more than 1,200 general practices in Germany.

"There is big interest in the relationship between osteoporosis and dementia," explained lead investigator Prof. Karel Kostev, Dr. MS, from the Epidemiology Team of IQVIA, Frankfurt, Germany. "This study is the first to address this question in a very large database enabling the case-control-comparison between [patients](#) with and without osteoporosis."

This [retrospective cohort study](#) used data from the Disease Analyzer database (IQVIA), which compiles information on [drug prescriptions](#), diagnoses, and demographic data obtained directly and in anonymous format from computer systems used by general practitioners and specialists. This database has already been used in several studies focusing on osteoporosis and dementia in recent years. The study included patients diagnosed with osteoporosis between January 1993 and December 2012 (index date) and were followed for up to 20 years. After applying similar inclusion criteria, controls were matched (1:1) to

osteoporosis patients using propensity scores based on age, gender, index year, several comorbidities, and co-therapies. The main outcome of the study was to determine the proportion of patients with all-cause-dementia diagnoses within 20 years of the index date.

The present study included 29,983 patients with osteoporosis and 29,983 controls without osteoporosis. After 20 years of follow-up, 20.5% of women with osteoporosis and 16.4% of controls had been diagnosed with dementia (p-value

Citation: Impact of osteoporosis on the risk of dementia in almost 60,000 patients (2018, August 20) retrieved 26 April 2024 from <https://medicalxpress.com/news/2018-08-impact-osteoporosis-dementia-patients.html>

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