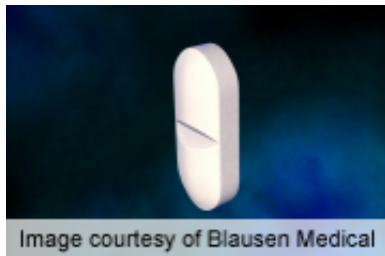


Oral bisphosphonate use cuts risk of post-implant revision Sx

30 October 2014



"This association is only present when bisphosphonates are started after arthroplasty surgery."

Several authors disclosed financial ties to the pharmaceutical industry.

More information: [Abstract](#)
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(HealthDay)—For patients undergoing total joint replacement, oral bisphosphonate use is associated with a reduction in the risk of revision surgery, according to a study published in the November issue of *Arthritis & Rheumatology*.

Daniel Prieto-Alhambra, M.D., Ph.D., from the University of Oxford in the United Kingdom, and colleagues conducted a retrospective cohort study within Danish nationwide registries to examine the correlation between bisphosphonate use and implant survival. Patients aged 40 years or older undergoing [total joint replacement](#) between 1998 and 2007 were identified. Each of 1,558 bisphosphonate users was matched, using propensity scores, to up to six bisphosphonate nonusers (n = 8,966).

The researchers found that during the follow-up period, 1.73 percent of bisphosphonate users and 4.45 percent of matched nonusers underwent revision surgery, at a median of 2.61 years after first surgery. Bisphosphonate users had a reduced risk of revision surgery (hazard ratio, 0.41). Patients with the longest duration of treatment and/or the best adherence had the strongest correlation.

"Oral [bisphosphonate](#) users have a 59 percent reduced risk of revision surgery," the authors write.

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