S NCBI Resources 🛛 How To 🖂	Sign in to NCBI
Publication PubMed   US National Library of Medicine National Institutes of Health Advanced	Search Help
Abstract - Send to: -	Save items
Glucosamine, chondroitin, and manganese ascorbate for degenerative joint disease of the knee or low back: a randomized, double-blind, placebo-controlled pilot study. Leffler CT <sup>1</sup> , Philippi AF, Leffler SG, Mosure JC, Kim PD.	☆ Add to Favorites
	Cited by 3 systematic reviews Chondroitin for osteoarthritis. [Cochrane Database Syst Rev. 2015]
Abstract OBJECTIVE: A 16-week randomized, double-blind, placebo-controlled crossover trial of a combination of glucosamine HCI (1,500 mg/day),	The use of glucosamine for chronic low back pain: a systematic review of ra [BMJ Open. 2013]
chondroitin sulfate (1,200 mg/day), and manganese ascorbate (228 mg/day) in degenerative joint disease (DJD) of the knee or low back was conducted.	Efficacy of glucosamine, chondroitin, and methylsulfonylmetha [J Can Chiropr Assoc. 2011]
METHODS: Thirty-four males from the U.S. Navy diving and special warfare community with chronic pain and radiographic DJD of the knee or low back were randomized. A summary disease score incorporated results of pain and functional questionnaires, physical examination scores, and running times. Changes were presented as a percentage of the patient's average score.	Similar articles
RESULTS: Knee osteoarthritis symptoms were relieved as demonstrated by the summary disease score (-16.3%; p = 0.05), patient assessment of treatment effect (p = 0.02), visual analog scale for pain recorded at clinic visits (-26.6%; p = 0.05) and in a diary (-28.6%; p = 0.02), and physical examination score (-43.3%; p = 0.01). Running times did not change. The study neither demonstrated, nor excluded, a benefit for spinal DJD. Side	glucosamine hydn [Osteoarthritis Cartilage. 2000] Review Nutraceuticals as therapeutic agents in
effect frequency was similar to that at baseline. There were no hematologic effects. CONCLUSIONS: The combination therapy relieves symptoms of knee osteoarthritis. A larger data set is needed to determine the value of this therapy for spinal DJD. Short-term combination therapy appears safe in this setting.	osteoarthritis. T [Rheum Dis Clin North Am. 1999] Glucosamine, chondroitin sulfate, and the two in combination for painful knet [N Engl J Med. 2006]
PMID: 10050562 [PubMed - indexed for MEDLINE]	Glucosamine sulfate use and delay of progression of knee oste [Arch Intern Med. 2002]
	Review Glucosamine and chondroitin sulfate as therapeutic agents for knee ɛ [Drugs Aging. 2007]