

High-intensity strength training no added benefit for knee osteoarthritis

February 17 2021



High-intensity strength training does not significantly improve knee pain



with osteoarthritis compared with low-intensity strength training or a control condition, according to a study published in the Feb. 16 issue of the *Journal of the American Medical Association*.

Stephen P. Messier, Ph.D., from Wake Forest University in Winston-Salem, North Carolina, and colleagues assessed the efficacy of high-intensity strength training in patients with knee osteoarthritis. The analysis included 320 community-dwelling adults (≥50 years old) with a body mass index (BMI) ranging from 20 to 45 and with knee pain and radiographic knee osteoarthritis. Participants were randomly assigned to high-intensity strength training (127 patients), low-intensity strength training (126 patients), or attention control (124 patients).

The researchers found that Western Ontario McMaster Universities Osteoarthritis Index knee pain scores at the 18-month follow-up were not statistically significantly different between the high-intensity group and the control group (P = 0.61) or between the high-intensity and low-intensity groups (P = 0.08). Additionally, there were no statistically significant differences noted between the high-intensity group and the control group with respect to mean knee joint compressive forces (P = 0.61) nor between the high-intensity and low-intensity groups (P = 0.85). There were 13 serious adverse events unrelated to the study (high-intensity, five events; low-intensity, three events; control, five events).

"The findings do not support the use of high-intensity strength training over low-intensity strength training or an attention control in adults with knee osteoarthritis," the authors write.

Several authors disclosed financial ties to the pharmaceutical and biotechnology industries.

More information: <u>Abstract/Full Text (subscription or payment may be required)</u>



Copyright © 2020 HealthDay. All rights reserved.

Citation: High-intensity strength training no added benefit for knee osteoarthritis (2021, February 17) retrieved 14 May 2024 from https://medicalxpress.com/news/2021-02-high-intensity-strength-added-benefit-knee.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.