

# Knee, hip arthroplasty tied to increased short-term MI risk

October 22 2015

---



(HealthDay)—For patients undergoing total knee arthroplasty (TKA) and total hip arthroplasty (THA) for osteoarthritis, the risk of myocardial infarction (MI) is increased in the first postoperative month, according to a study published in the October issue of *Arthritis & Rheumatology*.

Na Lu, M.P.H., from the Boston University School of Medicine, and colleagues examined the risk of MI in individuals who underwent TKA and matched non-TKA controls (13,849 in each group) and individuals who underwent THA and non-THA controls (6,063 in each group).

The researchers found the risk of MI was substantially increased in the TKA versus non-TKA group during the first postoperative month (hazard ratio [HR], 8.75; 95 percent confidence interval [CI], 3.11 to

24.62), and then decreased gradually during subsequent follow-up. Over the entire follow-up period, the HR for the risk of MI was 0.98 (95 percent CI, 0.82 to 1.18). Among patients undergoing THA versus controls, the corresponding HRs were 4.33 (95 percent CI, 1.24 to 15.21) in the first postoperative month and 0.87 (95 percent CI, 0.66 to 1.15) overall. Both TKA and THA correlated with increased risk of venous thromboembolism in the first postoperative months and overall in analyses using venous thromboembolism as a positive control outcome.

"These findings provide the first general population-based evidence to indicate that TKA and THA among [osteoarthritis](#) patients are associated with a substantially increased risk of MI during the immediate postoperative period," the authors write.

**More information:** [Abstract](#)  
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: Knee, hip arthroplasty tied to increased short-term MI risk (2015, October 22) retrieved 26 April 2024 from <https://medicalxpress.com/news/2015-10-knee-hip-arthroplasty-tied-short-term.html>

<p>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.</p>
--