

Accepted Manuscript

A computer model of mid-flexion instability in a balanced total knee arthroplasty

Perry J. Evangelista, M.D., Scott Laster, Nathan Lenz, Neil P. Sheth, M.D., Ran Schwarzkopf, M.D., MSc



PII: S0883-5403(18)30151-7

DOI: [10.1016/j.arth.2018.02.021](https://doi.org/10.1016/j.arth.2018.02.021)

Reference: YARTH 56417

To appear in: *The Journal of Arthroplasty*

Received Date: 5 December 2017

Revised Date: 23 January 2018

Accepted Date: 5 February 2018

Please cite this article as: Evangelista PJ, Laster S, Lenz N, Sheth NP, Schwarzkopf R, A computer model of mid-flexion instability in a balanced total knee arthroplasty, *The Journal of Arthroplasty* (2018), doi: 10.1016/j.arth.2018.02.021.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Title: A computer model of mid-flexion instability in a balanced total knee arthroplasty

Author(s):

Perry J. Evangelista, M.D.¹, Scott Laster², Nathan Lenz², Neil P. Sheth, M.D.³, Ran Schwarzkopf, M.D., MSc¹

¹NYU Langone Orthopedic Hospital, 301 E. 17th St. 14th Floor, New York, NY 10003

²Smith and Nephew, Memphis, Tennessee, USA

³Department of Orthopaedic Surgery, University of Pennsylvania, Philadelphia, Pennsylvania

Key Words:

Mid-flexion instability, total knee arthroplasty, Posterior Stabilized, Cruciate retaining, computer simulation

Message to the editor:

Mid-flexion instability after total knee arthroplasty is a poorly understood phenomenon and even more poorly described in the literature. This paper utilizes a computer-generated model demonstrating a plausible cause and strategy to help prevent, diagnose and treat cases of mid-flexion instability.

All authors were fully involved in the study and preparation of the manuscript and that the material within has not been and will not be submitted for publication elsewhere.

Corresponding Author: Ran Schwarzkopf, M.D., MSc¹ Address: 301 E 17th St. 14th Floor
New York, NY 10003

E-mail: schwarzk@gmail.com

Download English Version:

<https://daneshyari.com/en/article/8799285>

Download Persian Version:

<https://daneshyari.com/article/8799285>

[Daneshyari.com](https://daneshyari.com)