

Accepted Manuscript

Botulinum toxin treatment for nocturnal calf cramps in patients with lumbar spinal stenosis: A randomized clinical trial

Sang Jun Park, MD, Kyung Bong Yoon, MD, PhD, Duck Mi Yoon, MD, PhD, Shin Hyung Kim, MD, PhD



PII: S0003-9993(17)30082-5

DOI: [10.1016/j.apmr.2017.01.017](https://doi.org/10.1016/j.apmr.2017.01.017)

Reference: YAPMR 56799

To appear in: *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*

Received Date: 13 September 2016

Revised Date: 17 November 2016

Accepted Date: 12 January 2017

Please cite this article as: Park SJ, Yoon KB, Yoon DM, Kim SH, Botulinum toxin treatment for nocturnal calf cramps in patients with lumbar spinal stenosis: A randomized clinical trial, *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION* (2017), doi: 10.1016/j.apmr.2017.01.017.

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 page

Running title: botulinum toxin treatment and nocturnal calf cramps

Botulinum toxin treatment for nocturnal calf cramps in patients with lumbar spinal stenosis: A randomized clinical trial

Sang Jun Park MD, Kyung Bong Yoon MD, PhD, Duck Mi Yoon MD, PhD, and Shin Hyung Kim MD, PhD

Department of Anesthesiology and Pain Medicine, Anesthesia and Pain Research Institute, Yonsei University College of Medicine, Seoul, Republic of Korea

*Corresponding author: Shin Hyung Kim, MD, PhD.

Department of Anesthesiology and Pain Medicine, Anesthesia and Pain Research Institute, Yonsei University College of Medicine, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-752, Korea.

Tel: 82-2-2228-7500, Fax: 82-2-364-2951, E-mail: tessar@yuhs.ac

The authors declare no conflicts of interest.

This study was registered at ClinicalTrials.gov (ref: NCT 02444351).

This study was supported by the research grant from Yonsei University College of Medicine, Seoul, Korea (grant number 6-2015-0019).

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات