

# Accepted Manuscript

Title: Modic type 1 change is an autoimmune response that requires a pro-inflammatory milieu provided by the 'modic disc'

Author: S. Dudli, E. Liebenberg, S. Magnitsky, B. Lu, M. Lauricella, J.C. Lotz

PII: S1529-9430(17)31212-3

DOI: <https://doi.org/10.1016/j.spinee.2017.12.004>

Reference: SPINEE 57556

To appear in: *The Spine Journal*

Received date: 14-8-2017

Revised date: 17-11-2017

Accepted date: 11-12-2017

Please cite this article as: S. Dudli, E. Liebenberg, S. Magnitsky, B. Lu, M. Lauricella, J.C. Lotz, Modic type 1 change is an autoimmune response that requires a pro-inflammatory milieu provided by the 'modic disc', *The Spine Journal* (2017), <https://doi.org/10.1016/j.spinee.2017.12.004>.

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.



# **Modic type 1 change is an autoimmune response that requires a pro-inflammatory milieu provided by the ‘Modic disc’**

Dudli S<sup>1,2,\*</sup>, Liebenberg E<sup>1</sup>, Magnitsky S<sup>3</sup>, Lu B<sup>1</sup>, Lauricella M<sup>1</sup>, Lotz JC<sup>1</sup>

<sup>1</sup> University of California San Francisco, Department of Orthopaedic Surgery, 513 Parnassus Ave, S-1164, San Francisco, CA 94143, United States

<sup>2</sup> University Hospital Zurich, Center for Experimental Rheumatology, Lengghalde 5, 8008 Zurich, Switzerland

<sup>3</sup> University of California San Francisco, Department of Radiology, 185 Berry St, Suite 350, San Francisco, CA 94107, United States

\* Corresponding author: dudli@panamerica.ch

## **Abstract**

### **Background**

Modic changes (MC) are MRI evidence of inflammatory and fibrotic vertebral bone marrow lesions that associate with adjacent disc degeneration and endplate damage. While MC etiology is uncertain, historical data suggest a linkage to an autoimmune response of bone marrow triggered by the nucleus pulposus (NP).

### **Purpose**

Download English Version:

<https://daneshyari.com/en/article/8804448>

Download Persian Version:

<https://daneshyari.com/article/8804448>

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