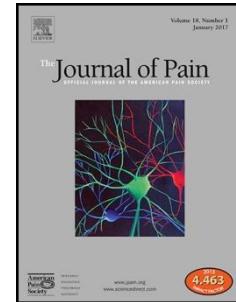


Accepted Manuscript

Title: The Long-Term Footprint of Endometriosis: Population-Based Cohort Analysis Reveals Increased Pain Symptoms and Decreased Pain Tolerance at Age 46

Author: Saara Vuontisjärvi, Henna-Riikka Rossi, Sauli Herrala, Laure Morin-Papunen, Juha S. Tapanainen, Salla Karjula, Jaro Karppinen, Juha Auvinen, Terhi T. Piltonen



PII: S1526-5900(18)30085-3
DOI: <https://doi.org/10.1016/j.jpain.2018.02.005>
Reference: YJPAI 3536

To appear in: *The Journal of Pain*

Received date: 9-11-2017
Revised date: 2-2-2018
Accepted date: 14-2-2018

Please cite this article as: Saara Vuontisjärvi, Henna-Riikka Rossi, Sauli Herrala, Laure Morin-Papunen, Juha S. Tapanainen, Salla Karjula, Jaro Karppinen, Juha Auvinen, Terhi T. Piltonen, The Long-Term Footprint of Endometriosis: Population-Based Cohort Analysis Reveals Increased Pain Symptoms and Decreased Pain Tolerance at Age 46, *The Journal of Pain* (2018), <https://doi.org/10.1016/j.jpain.2018.02.005>.

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.

The Long-term Footprint of Endometriosis: Population-based Cohort Analysis Reveals Increased Pain Symptoms and Decreased Pain Tolerance at Age 46

Saara Vuontisjärvi^{1, 4}, Henna-Riikka Rossi^{1, 4}, Sauli Herrala², Laure Morin-Papunen^{1, 4}, Juha S. Tapanainen^{1, 3, 4}, Salla Karjula^{1, 4}, Jaro Karppinen^{2, 4, 5}, Juha Auvinen^{2, 4}, Terhi T. Piltonen^{1, 4, 6*}

¹Department of Obstetrics and Gynecology, Oulu University Hospital, University of Oulu and PEDEGO Research Unit, Oulu, Finland

P.O.Box 23, FI-90029 Oulu University Hospital, Finland

²Center for Life Course Health Research, University of Guelph, Guelph, Ontario, Canada

P.O.Box 8000, FI-90014 University of Oulu, Finland

^{3D} Reconstruction of Quantitative Computed Tomography

Helsinki, Finland

P.O.Box 63, Bior

P.O.Box 63, Biomedicum Helsinki, 00014 University of Helsinki, Finland

⁴Medical Research Center Oulu, Oulu University Hospital and University of Oulu, Oulu, Finland

P.O.Box 8000, FI-90014 University of Oulu, Finland

⁵Finnish Institute of Occupational Health, Oulu, Finland

P.O.Box 40, FI-00251, Helsinki, Finland

⁶Corresponding author

Tomi T. Puttonen M.D., Ph.D. Associate Professor

Consultant, Clinical Researcher for the FIM

Department of Obstetrics and Gynaecology

PEDEGO Research Unit, Medical Research

Oulu University Hospital, University of Oulu

Kajaanintie 50, BOX 5000, 90014 Oulu, FINLAND

terhi.plitonen@oulu.fi

دريافت فوري

متن كامل مقاله



ISI Articles

مرجع مقالات تخصصی ایران

- ✓ امكان دانلود نسخه تمام مقالات انگلیسي
- ✓ امكان دانلود نسخه ترجمه شده مقالات
- ✓ پذيرش سفارش ترجمه تخصصي
- ✓ امكان جستجو در آرشيو جامعی از صدها موضوع و هزاران مقاله
- ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
- ✓ امكان پرداخت اينترنتی با کليه کارت های عضو شتاب
- ✓ دانلود فوري مقاله پس از پرداخت آنلاين
- ✓ پشتيباني كامل خريد با بهره مندي از سيسitem هوشمند رهگيري سفارشات