

## Accepted Manuscript

Title: Clinical and economic effectiveness of the use of platelet-rich plasma in the treatment of chronic wounds

Authors: Vladimir N. Obolensky, Darya A. Ermolova, Leonid A. Laberko



PII: S2213-9095(17)30033-2  
DOI: <http://dx.doi.org/10.1016/j.wndm.2017.09.001>  
Reference: WNDM 108

To appear in:

Received date: 29-5-2017  
Accepted date: 11-9-2017

Please cite this article as: Vladimir N.Obolensky, Darya A.Ermolova, Leonid A.Laberko, Clinical and economic effectiveness of the use of platelet-rich plasma in the treatment of chronic wounds, Wound Medicine <http://dx.doi.org/10.1016/j.wndm.2017.09.001>

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## **Clinical and economic effectiveness of the use of platelet-rich plasma in the treatment of chronic wounds**

**Vladimir N. Obolensky**, Candidate of Medicine, Associate Professor of the Department of General Surgery and Radiation Diagnostics of the Faculty of General Medicine of N. I. Pirogov's Russian National Research Medical University of Ministry of Health of the Russian Federation, Head of the Department of Purulent Surgery No. 3 of State-financed health institution, City clinical hospital No. 13, Moscow Health Department, 115280, Moscow, Velozavodskaya str., bld. 1/1, +7-916-172-44-30, gkb13@mail.ru.

**Darya A. Ermolova**, Assistant of the Department of General Surgery and Radiation Diagnostics of the Faculty of General Medicine of N. I. Pirogov's Russian National Research Medical University of Ministry of Health of the Russian Federation, 127015, Moscow, Pistsovaya str., 10, +7-926-566-00-14, dashka872007@yandex.ru.

**Leonid A. Laberko**, Dr. habil., Professor of the Department of General Surgery and Radiation Diagnostics of the Faculty of General Medicine of N. I. Pirogov's Russian National Research Medical University of Ministry of Health of the Russian Federation, 127015, Moscow, Pistsovaya str., 10, +7-903-793-85-74, laberko@list.ru.

State-financed educational institution of higher professional education Russian N. I. Pirogov's National Research Medical University of Ministry of Health of the Russian Federation (Acting Rector – Lukyanov S. A., Dr. habil.).

**Abstract:** The paper presents the results of the clinical use of platelet-rich plasma in the treatment of long-term non-healing wounds of various etiologies in patients on inpatient treatment and outpatient monitoring in the department of surgical infections of the State-financed health institution, City clinical hospital No. 13, Moscow Health Department, from 2011 to 2016: test group and control group of 50 patients per each, comparable by gender, age, nature of pathology and area of wounds. When analyzing the data obtained, it was found that a significant reduction in the duration of patients treatment was achieved in the test group: the average epithelialization time for the wounds was  $42.3 \pm 5.7$  days, while in the control group, this index was many times higher and averaged  $123.8 \pm 25.3$  days. The average length of hospitalization at the stage of the treatment of patients in the test group was  $8.4 \pm 1.5$  days, in the control group it was  $18.1 \pm 1.6$  days ( $p < 0.0001$ ). The economic effect averaged 736.81 Euro in savings per patient.

**Key words:** platelet-rich plasma, growth factors, chronic wound, wound healing medications, healing rate.

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