

OPTIMIZING DISTRACTION OSTEOSYNTHESIS IN PATIENT WITH THE TIBIAL SEGMENT TISSUE LOSS AFTER FRACTURES

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PMID: 36591762 DOI: 10.36740/WLek202211205

Abstract

Objective: The aim: Improving treatment outcomes in patients with segment tibial bone tissue loss after fractures by improving the ring fixators technology.

Patients and methods: Materials and methods: The study includes the data of 77 patients. The patients were distributed between two groups: the main and control one, using random numbers table. The inclusion criteria were: patients' consent, their age over 18 years, tissue inflammation episodes, fibular defects 4-5cm in size and disseminated scar lesions. RF was applied with the proposed improvements. Finally, a semi-rigid external fusion system Softcast / Scotchcast was used to prevent deformation of the regenerate and create optimal conditions for fusion of fragments.

Results: Results: The following results were obtained for the Modified Functional Evaluation System by Karlstrom-Olerud: positive treatment outcomes in the main group made up 97.1%, and 92.9% in the control one. Though, the specific gravity of good and excellent outcomes in the main group was 82.8%, while in the comparison group - just 45.2.

Conclusion: Conclusions: Along with considerable positive advantages of the "Ilizarov's" apparatus, some disadvantages have been noted. Elimination of the drawbacks is stipulated for the practical needs, which requires further scientific study.

Keywords: bone defects; fractures; tissue loss.

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