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CHRONIC KNEE PAIN PREVENTION AFTER ARTHROPLASTY WITH RADIOFREQUENCY NEUROABLATION

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Introduction. Chronic knee pain after arthroplasty is a problem for patients that suffered because of osteoarthritis and had operative treatment. Neuropathic component is one of the etiology factors caused this pain.

For prevention of pain syndrome in postoperative period we used modified radiofrequency neuroablation (RFNA) procedure of the knee which analgesic success of is known for decades.

The aim of the study. To determine the effectiveness of the pain syndrome prevention in the postoperative period after knee arthroplasty with RFNA method.

Materials and methods. In this study, we included 93 patients with knee osteoarthritis of the III-IV stage. Patients were divided into two groups: the study group (n=44) and the comparison group (n=49). In study group patients had arthroplasty of one knee and underwent preoperative procedure of the continuous RFNA of the genicular and cutaneous nerves of the incision area under ultrasound guidance.

Patients in the control group had only knee arthroplasty. Pain syndrome intensity was evaluated with VAS. The possibility of developing of neuropathic pain component according to the Pain DETECT was scored before treatment and in 6 months after surgery.

Results. The results obtained with VAS showed intense pain syndrome in the study group – 8.0 (7.0; 10.0) and in control group - 8.0 (7.0; 9.0) during preoperative examination and reduction of it in both groups in 6 months after arthroplasty in the

study group - 2.0 (2.0; 2.0) points, and in the comparison group - 3.0 (2.0; 3,0) points. According to the pain DETECT questionnaire evaluating preoperative pain syndrome had neuropathic character, and there was a decrease of scores in compare to preoperative values to in comparison group – 4.0 (2.5; 6.0) and in study group – 2.0 (2.0; 3.0).

Conclusions. RFNA of the genicular nerves and additional ablation of skin nerves allows more pronounced reduce the intensity of pain in the postoperative period after knee replacement and prevent chronic pain syndrome caused with neuropathic component in terms of 6 months after surgery.