COMPLEX PRM PROGRAMMES OF CARE AFTER ARTHROSCOPIC RECONSTRUCTION OF THE ANTERIOR CRUCIATE LIGAMENT



Introduction:

stability and gait is recognized.

reconstruction of ACL.

Material and methods:



The importance of anterior cruciate ligament (ACL) for knee

The goal of current study was to realize a comparative

PRM programmes of care after arthroscopic

A total of 96 patients (divided into three groups) after ACL

□ All patients received physiotherapy (analytic exercises),

Patients of first group received only these procedures.

low frequency magnetic field and Deep Oscillation.

and scales for pain, range of motion, knee stability and gait.

cryotherapy (ice massage), patient education.

□ In group 2 we added interferential currents and

m.vastus medialis obliguus).

and Willcoxon methods (p<0.05).

was most significant in group 3.

reconstruction were treated during one month.

evaluation of the efficacy of application of three different

electrostimulations of the quadriceps femoris muscle (especially

□ In group 3 we added other preformed modalities: low intensity

and one month later - using a battery of objective methods: tests

Patients were controlled before, during, at the end of the PRM course

Statistical analysis was performed with SPSS package, using ANOVA

Analysis of results demonstrates the efficacy of physiotherapy

and cryotherapy on mobility of the knee joint and gait velocity. The knee stability was significantly improved in group 2.

Efficacy of PRM on pain, oedema and the length of the step

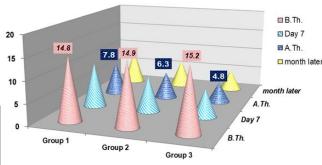


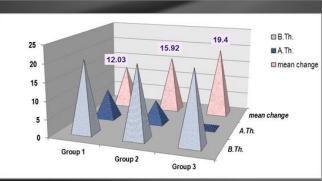


Fig. 1. VAS (0-20)

Ivet Koleva, Borislav Yoshinov

Medical University of Sofia, Bulgaria





Discussion and conclusion: Authors consider that pre-formed physical modalities can ameliorate the efficacy of rehabilitation in these patients: electrostimulations are useful for the knee mobility and stability, Deep Oscillation and magnetic field – for the pain and oedema.

REFERENC

- Koleva I. Bases of Physical medicine, Physical therapy and Rehabilitation (incl. Occupational Therapy and Medical SPA). Second Edition. Volumes 1 & 2. Solia: SIMEL, 2015, 659 p. [In Bulgarian]
 Mailand G, E, Hengeveld, K. Banks, Peripheral Manipulation. Butterworth: Elsevier, 2005.
- Maitland G, E. Hengeveld, K. Banks. Peripheral Manipulation.- Butterv
 Mulligan B. Manual Therapy. Wellington: Plane View Services, 1989
- Principles of assessment and Outcome measurement for occupational therapists and physiotherapists. Theory, skills and application. AL Fawcett Editor. Chichester: John Wiley & Sons Ltd, 2007.
 - Physical Therapy Post-operative Rehabilitation Protocols. Available at: http://orthonc.com/ physical-therapy/physical-therapy-postoperative-rehabilitation-protocols. Assessed April 7, 2

Key words: PRM program of care, anterior cruciate ligament, arthroscopic reconstruction, pain, edema, range of motion, knee stability ACKNOWLEDGEMEN

Contacts: prof. lvet KOLEVA, MD, PhD, DMedSc; phone: ++359.888 20 81 61; e-mail: yvette@cc.bas.bg Some of the activities for this research were carried thanks to the framework of project. 2015-1-RO01-KA202-015230 entitled "Collaborative learning for enhancing practical skills for patient-focused interventions in gait rehabilitation after orthopedic surgery" (COR-skill).

The project was financed by European Commission under the Erasmus + programme, KA2.

This document reflects only the author's view and that the NA and the Commission are not responsible for any use that may be made of the information it contains. Further details and contact information for the COR-skills project can be found on the project web page.

Fig. 2. *FLEXION* DIFFERENCES (ROM - SFTR)

