



WEB OF SCIENCE

COMPARATIVE RESEARCH ON JOINT INJECTIONS WITH PRP VERSUS ACRS**BROTAC Cornel¹, DUMITRASCU Dan¹**Editor: Constantin MUNTEANU, E-mail: office@bioclima.ro

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Corresponding author: **BROTAC Cornel**, E-mail: office@brotac.ro

1. Rehabilitation Medicine, Brotac Medical Center, Romania

Abstract

Introduction. In present research we have compared the short-term profiles of efficiency and safety of the osteoarthritic knee joint injection with Platelet-Rich Plasma (PRP) and Autologous Cytokine-Rich Serum (ACRS), respectively.

Materials and method. This study was conducted on a batch of 20 patients, of which 10 were injected with PRP (all 10 have completed the study) and 10 with ACRS (of which 7 completed the full course). Each patient was administered a series of 3 doses of PRP or ACRS, at 2 weeks interval. All of them were assessed before each administration and after 2 weeks since the last one. There were rated: the presence of local signs of inflammation, signs of joint instability, flexion and/or extension deficits, subjective estimated pain (on a 1 to 10 VAS scale), and also the evolution of other reported functional deficits.

Results. Both therapeutical methods have shown a good efficiency concerning the studied parameters, and especially from the point of view of improving the joint mobility and reported pain. Our results have not shown a suggestive superiority of one of these methods comparing to the other. On the other hand, none of these patients have reported side effects.

Conclusions. This research should be continued with a follow up on medium and long term of these patients and, if possible, with repeating the injection protocol after 6 or 12 months.