Format: Abstract

 \sim

Fu	III	te	xt	lin	ks	
	1	0	S	Ful	IT	ext

<u>J Back Musculoskelet Rehabil.</u> 2018;31(4):603-610. doi: 10.3233/BMR-171066.

Single-dose intra-articular corticosteroid injection prior to platelet-rich plasma injection resulted in better clinical outcomes in patients with knee osteoarthritis: A pilot study.

Camurcu Y¹, Sofu H¹, Ucpunar H¹, Kockara N¹, Cobden A², Duman S³.

Author information

Abstract

BACKGROUND: The synergistic and protective effect of platelet-rich plasma (**PRP**) added to methlyprednisolone (MP) has been demonstrated via in-vitro studies. However, there is no report in the literature about this issue.

OBJECTIVE: The aim of this study was to evaluate clinical outcomes of intra-articular (IA) MP injection prior to **PRP** injection in comparison with single-dose MP and **PRP** injections alone in patients with knee osteoarthritis (OA).

METHODS: The treatment groups were "**PRP** group" (n= 37) who underwent single-dose IA **PRP** injection, "**PRP** + MP group" (n= 40) who underwent MP injection one week prior to single-dose **PRP** injection, and "MP group" (n= 38) who underwent single-dose MP injection. Visual Analog Scale (VAS) and The Western Ontario and McMaster Universities **Arthritis** Index (WOMAC) scores were applied at first admission and at 1st, 3rd, 6th, and 12th month follow-ups.

RESULTS: At the end of the 1st month, WOMAC score in **PRP** + MP group was significantly lower than **PRP** group. At the 3rd month, WOMAC score in **PRP** + MP group was significantly lower than **PRP** and MP groups. At the 6th month, VAS and WOMAC score in **PRP** + MP group was significantly lower than MP group. At the end of the 12th month, no significant difference was observed among three groups in VAS and WOMAC scores.

CONCLUSION: According to our results, IA MP injection prior to **PRP** injection resulted in significantly better clinical outcomes compared to **PRP** and MP injections alone in patients who had mild to moderate knee OA.

KEYWORDS: Platelet-rich plasma; corticosteroid; intra-articular injection; knee osteoarthritis

PMID: 29710676 DOI: 10.3233/BMR-171066

LinkOut - more resources