

TREATMENT OF KNEE OSTEOARTHRITIS WITH INTRA-
ARTICULAR PLATELET-RICH PLASMA (PRP)
INJECTIONS IN COMPARISON WITH OTHER
PHARMACOLOGICAL TREATMENT

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2013

ABSTRACT

Osteoarthritis of the knee joint is one of the commonest degenerative joint diseases in population. Treatment of knee OA still remains as a major challenge to medical practitioners. Intra-articular injection of autologous platelet-rich plasma has become alternatives treatment for patients with knee OA of various severities. This method becomes a promising choice for medical practitioners who fail to treat patients with Knee OA or to circumvent the negative side effect associated with many conventional treatments. The present study is aimed to assess the efficacy of intra-articular injection of Platelet- rich plasma in treating patient with Knee osteoarthritis. Study was done based on data sources from structured reviews on case studies identified through search from Pub Med, Cochrane library. The employed keywords were Knee osteoarthritis, degenerative joint disorder, Platelet-rich plasma (PRP), and conventional treatment for Knee OA. The selected studies on this topic were identified and reviews were systematically extracted and compiled, which were the analyzed for review and project paper write up. Few studies are available on intra-articular Platelet-rich plasma in the treatment of knee osteoarthritis. There were 8 studies reviewed in this project paper. The outcome of these studies is in favor of the objective of the project paper. Intra-articular injection of Platelet-rich plasma is considered technically an easy approach to treat the knee osteoarthritis, however this approach can elicit beneficial effects in human knee joint remains to be seen. Intra-articular injection of Platelet-rich plasma has emerged as a successful treatment for various degrees of knee osteoarthritis. With advancement in research and studies on intra-articular Platelet-rich plasma in the treatment of Knee osteoarthritis, the future of Knee osteoarthritis treatment protocols could change dramatically.