



An introduction to application of platelet rich plasma (PRP) in skin rejuvenation

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ARTICLE INFO	ABSTRACT
Article type Review article Article history Received: 18 Jan 2014 Revised: 7 Feb 2014 Accepted: 10 Feb 2014 Keywords Platelet releasate Platelet-rich concentrate Platelet-rich plasma (PRP) Skin rejuvenization	Platelet-rich plasma (PRP) is an autologous concentration of human platelets contained in a small volume of plasma characterized by haemostatic and tissue repairing effects. Tissue repairing effects and being enriched by various kind of growth factors, has made them the focus of attention for different procedures. PRP has been effective in bony defects, wound healing and recently for aesthetic procedures in plastic surgery. The purpose of this review is to evaluate and summarize the applications of PRP in the dermatology literature, with particular focus on rejuvenization process, advances and limitations of current PRP therapies. We studied literature related to PRP therapy, these include regeneration of soft tissue, skin aging mechanisms, as well as wound healing. Some studies have shown promising results, with favorable outcomes about PRP clinical application for skin rejuvenization. This article summarizes our current understanding regarding photoaging process and the role of PRP in the skin rejuvenization process. PRP has been shown to be useful in skin rejuvenization. Further studies are needed to elucidate both basic and clinical aspects of PRP therapies. In particular, platelet preparation methods, different application methods, platelet mechanism of action in rejuvenation field, interactions with the skin components, long-term efficacy and safety are necessary to be determined.

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Introduction

Platelet-rich plasma (PRP), platelet-rich concentrate, autologous platelet gel or

platelet releasate, all refer to one concept (1). which is an autologous concentration

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