



P83- Assessment of Platelet Rich Plasma Therapy in Skin Rejuvenation: for Benefit and Adverse Influence

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Abstract

Introduction: Demanding of a safe method for skin rejuvenation with fewer side effects is one of the main purposes of most of the people, since it can be more effective in enhancement of life expectancy. As the wounds healing pathway is similar to the rejuvenation mechanisms, diverse methods such as ablative and non-ablative laser, based on destruction of skin structure and wounds healing induction have been applied to meet this target. The recent method that has remarkably taken experts' and technicians' attention, is platelet rich plasma (PRP) injection as a safe method without any dangerous infection transduction through it is the own blood product injected. This study includes the molecular and accurate consideration through the aging and rejuvenation mechanisms. We also tried to investigate PRP effects involved in its deleterious and profitable outcomes. **Literature review:** We utilized Literatures including: (Autologous) platelet rich plasma+ anti wrinkles, rejuvenation, youthfulness, wound healing. Influence of platelet rich plasma on dermal treatment, rejuvenation, wound healing. Influence of Growth factors on cancer and neoplasm tumors. **Conclusion:** Since PRP has high rate of growth factors concentration, it can be impressive in accelerating of wound healing. However, there is a concern about the relation between the high level of growth factors and induction of signaling cascades resulting in tumor cell occurrence. Among growth factors, The PDGF growth factor derived in high concentration from activated platelets is a promising agent for proto-oncogenes induction. Indeed, PRP injection can probably be inducible for tumor creation. The lack of compressive outcomes in the PRP therapy can be resulted from deficiency of its optimized preparation method. Thus, PRP outcomes need to be more investigation cohort studies.

Keywords: Platelet- Rich plasma, Rejuvenation, Wound Healing, Growth Factors, Cancer

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