

PRP IN COSMETIC

The “vampire facial”





Platelet-rich plasma (PRP) is blood plasma containing an above baseline level of platelets and growth factors.

PRP is an emerging new treatment utilized to enhance wound healing and has been in clinical use over the last several decades within many disciplines, such as orthopedic, oral-maxillofacial and cardiac surgery. Recently, PRP has come to the attention of esthetic surgeons, with burgeoning new applications ranging from hair restoration to soft tissue augmentation



The main purpose of facial rejuvenation is to reverse the aging process either by surgical or noninvasive modalities.

In recent years, despite the increase in the number of facial rejuvenation cosmetic procedures, there is a decrease in the number of patients opting for surgical facial rejuvenation procedures.



This emphasizes the importance of noninvasive procedures in improving cosmetic outcomes. Among the noninvasive facial rejuvenation methods, platelet-rich plasma (PRP), which is a platelet concentrate obtained from autologous plasma, has been used in wide dermatological applications including facial rejuvenation



PRP concentrate consists of various growth factors that perform diverse functions including The growth factors in PRP include platelet-derived growth factors (PDGFs), transforming growth factor- β 1 (TGF- β 1), TGF- β 2, vascular endothelial growth factor (VEGF), basic fibroblast growth factor (bFGF), and epithelial growth factor (EGF).



Although the exact mechanism of action of PRP in bringing about facial rejuvenation is not yet elucidated, it is hypothesized that the growth factors may mediate tissue repair and regulate cellular proliferation and differentiation genes thereby leading to angiogenesis.



These growth factors facilitate rejuvenation at the cellular level, which may lead to better long-term effects in comparison with invasive procedures. The most suitable PRP preparation method is not yet clear. PRP can be prepared by single and double spin systems.

What does PRP do for skin?



PRP is a substance derived from one's own blood, it is not considered a drug . PRP **promotes collagen production and stimulates it to develop complete facial rejuvenation** instead of focusing on just specific wrinkles. It will generate a new spark on the face by filling the volume lost cheeks, improving skin tones, tailoring the skin smooth and tight

Before

After





Many factors may influence the outcome of PRP usage, including platelet concentration and condition, amount of plasma used, the extent of injury at the site of treatment, and patient medical conditions.

Application of PRP in Facial Rejuvenation



the application of PRP in facial rejuvenation has several benefits in facial rejuvenation and due to its enormous benefits, it is being used in several conditions such as atrophic acne scars, pigmentation, facial wrinkles, facial folds, loss of elasticity, and loss of tissue volume.

Acne scar treatment



Before



After



Treat lines and wrinkles by PRP



PRP with Hyaluronic Acid Applications



Research studies have shown that by combining hyaluronic acid (HA) and PRP, the synergic effect of the treatment would be associated with the enhanced function of dermal fibrosis, thus providing better outcomes in facial rejuvenation.



PRP has beneficial effects on facial rejuvenation either alone or in combination with other treatment modalities such as laser treatment, fat grafting, subcision, growth factors, and thread lifting

PRP for the Treatment of Rhytids

Have a role in facial skin rejuvenation and the treatment of rhytids. The efficacy of PRP in the treatment of skin wrinkles by increased fibroblast and collagen production as well as increased Dermal thickness when received injections with PRP once a month for 3 months,

Augmentation of the Wound Healing Response

Given that platelets play a key role in the body's natural wound healing response, the role of PRP application in conjunction with other skin rejuvenation procedures has been investigated to elucidate its efficacy in potentially reducing surgical recovery time.



With fractionated laser resurfacing, the vaporized holes in the skin are produced which act as avenues for drug delivery, facilitating easy topical administration of the PRP.



The role of PRP in augmenting the skin healing response following CO₂ laser resurfacing procedures. CO₂ laser resurfacing of the face was performed with topical application of PRP. This lead to faster healing rates, decreased skin erythema

Hair Restoration



Recently, the role of PRP for the treatment of hair loss PRP stimulates hair regrowth by both prolonging the anagen phase of the hair cycle and by inducing antiapoptotic effects on dermal papilla cells when PRP-injected in to the scalp hairs significantly thicker and increased in numbers.

injection of PRP



Intradermal injections of PRP in the affected areas of the scalp were performed with the patients in sitting position. An area of 1 cm was left between each application. Local anesthetic was not needed. In total, 3 sessions were performed with an interval of 1 month between each one.

Hair Restoration



What Are the Side-Effects of Platelet-Rich Plasma Therapy?



- ❖ Pain in the Injured Area. Some people who've undergone PRP therapy complain about an acute ache or soreness in the spot of the injection. ...
- ❖ Infection. ...
- ❖ No Improvement in Injured Area. ...
- ❖ Allergic Reaction. ...
- ❖ Blood Clot. ...
- ❖ Skin Discoloration.



Thank you