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Combination of platelet-rich and platelet-poor plasma for atrophic facial acne scarring

Background: Platelet-rich plasma (PRP) and platelet-poor plasma (PPP) are rich sources of biologically active cytokines and other modulators that contribute to collagen remodeling and wound healing. This retrospective case series evaluates efficacy of combination PRP with PPP for atrophic facial acne scarring.

Objective: Study the efficacy of combining PRP and PPP as adjuvant therapy for atrophic facial acne scarring.

Materials and methods: 17 patients with moderate to severe atrophic acne scarring were included in the study. Current modalities are discussed as they relate to disease and specific acne types. Established acne scarring grades are utilized to evaluate pre- and post-treatment outcomes.

Results: All types of scars showed response to treatment. Estimation of improvement with Goodman and Baron's global qualitative acne scarring system showed that out of 17 patients with Grade 2 and 3 acne scarring, 65% showed improvement in acne scar grading after a minimum of 3 months. Adverse effects were limited to mild discomfort during treatment and transient erythema, ecchymosis and edema.

Discussion: To date, PRP and coagulated PPP have been applied separately in acne scar therapy. The current study introduces the application of combined autologous PRP plus PPP as c

Recent Publications:

1. Jennifer A. Baron and Greg J. Goodman. Postacne Scarring: A Qualitative Global Scarring Grading System. Dermatologic Surgery. Dec 2006.
2. Jennifer A. Baron and Greg J. Goodman. The management of postacne scarring. Dermatologic Surgery. 2007 Oct. 33(10):1175-88. Jennifer A. Baron and David M Zloty. Bilateral type 1 complex regional pain syndrome after local nerve blocks for palmar hyperhidrosis. Dermatol Surg. 2009 May;35(5):885-7

Biography

Jennifer A Baron continues to pair her medical training and experience with research and innovation of effective skin care treatments for her patients. For a decade and a half as a private practice dermatologic surgeon in San Jose, California. Targets of treatment include sun-damaged and aging skin, rosacea and acne-prone complexions, dry and sensitive skin types, hyperpigmentation, skin laxity, and more. She works with chemists and manufacturers in Seoul, Korea to bring some of the finest quality skin care products to her patients. All Jennifer Baron, M.D. products are cruelty-free.

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