ABSTRACT BOOK ABSTRACTS



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ACNE, ROSACEA, AND RELATED DISORDERS (INCLUDING HIDRADENITIS SUPPURATIVA)

## A COMPARATIVE STUDY OF EFFICACY AND SAFETY OF AUTOLOGOUS FAT GRAFTING VERSUS PLATELET RICH PLASMA IN THE TREATMENT OF POST ACNE SCARS.

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Introduction: Different treatment modalities have been used to treat acne scar with varying results. Platelet rich plasma (PRP) has become popular in dermatology for scar restoration. Autologous fat transfer has proven very useful in regenerative medicine.

Objective: To compare the efficacy of platelet rich plasma with autologous fat transfer for the treatment of atrophic acne scars.

Materials and Methods: A hospital based, comparative and interventional study performed after approval from Institutional Ethics Committee. Twenty patients were divided into two groups- ten in each group. Group A patients were treated by single session of scar subcision with autologous fat transfer. Group B patients received three sessions of subcision combined with intradermal autologous PRP treatments spaced by 1 month. All patients were followed up for 3 months. The outcome among the study subjects were assessed by digital photographs before and after treatment using Goodman and Baron's quantitative global acne scarring grading system, in addition to single-blinded physician assessment and by reports of patient satisfaction.

Results: In autologous fat transfer group, total number of scars ( quantitative assessment of scar ) decreased by 61.24%, whereas in PRP group, total number of scars decreased by 44.15%. Mean percentage of improvement showing significant difference between both groups ( p=0.015 ). Single blinded physician's assessment showed excellent response to treatment in 7 patients (35%) of which 4 belonged to autologous fat transfer and 3 belonged to PRP therapy. Six patients (30%) showed marked response of which 3 belonged to each group. Patient satisfaction was better in autologous fat transfer group as compared to PRP therapy. Side effects were minimal. All patients had sustained clinical improvement during follow-up period.

Conclusion: Autologous fat transfer provides significant clinical improvement in atrophic acne scar. It is a novel, safe, non- expensive, single session therapy with minimal downtime.





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