

INTRODUCTION

- Scars on the face have immense psychological impact
- Biofiller offer potential in treatment of atrophic scar by immediate volumetric filling and neocollagenization
- While biofiller has been tried for treatment of acne scars,its role in post traumatic scar revision is yet unexplored.

METHODS

3 patients with post traumatic scar recruited

Topical anesthesia applied 45 min prior

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10ml blood collected in sodium citrate bulbs & centrifuged at 3200 RPM x 8 min

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Plasma withdrawn & centrifuged at 1000 RPM x 5 min in plain bulb

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3-4 ml platelet poor plasma(PPP) obtained

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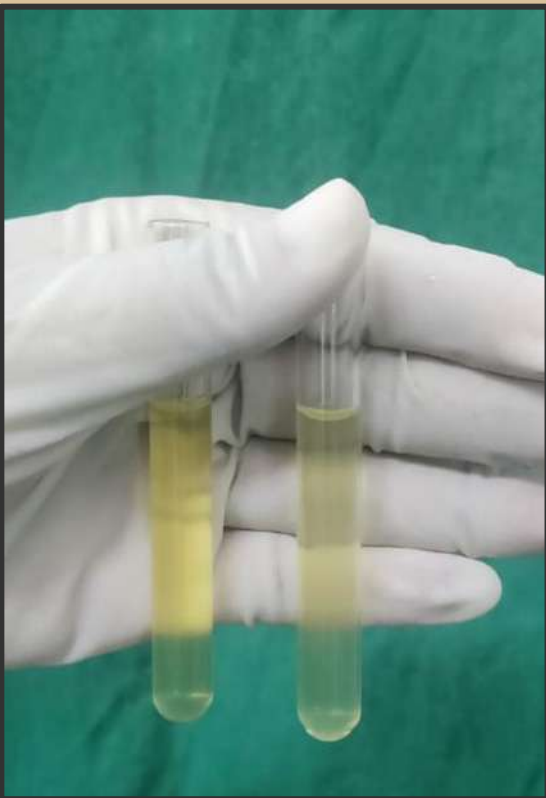
PPP coagulated with heat – 100 degree Celsius x 5 min


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Gel formed- cooled - 7-10 degree Celsius x 5 min

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This gel (biofiller) injected in scarred area



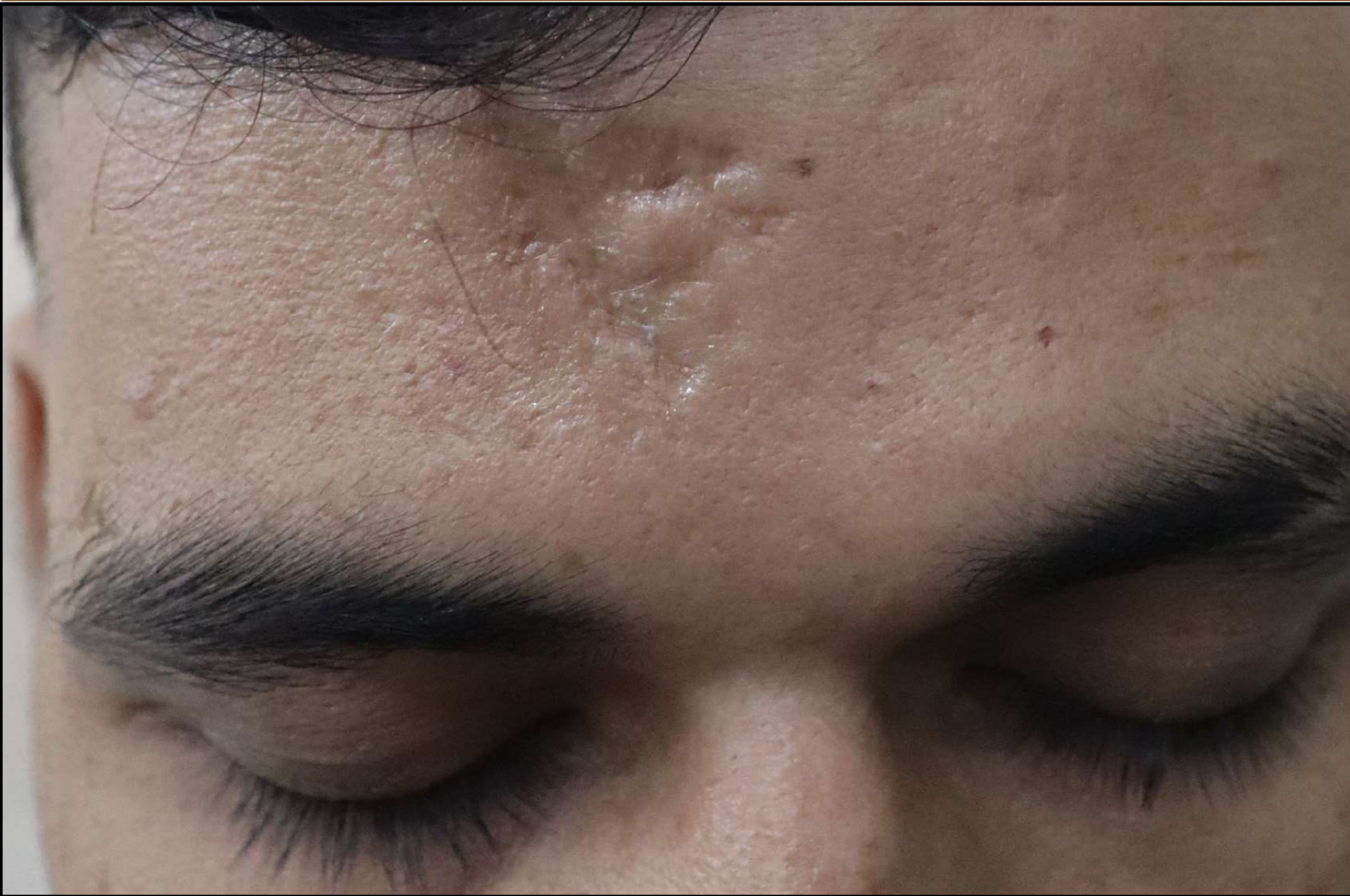


PRE

CASE 1:
24/M ,with post traumatic scar
5 sessions of Ablative + Fractional ErYAG
3 sessions of biofiller




POST




PRE

CASE 2:
24/M,with post traumatic scar
4 sessions of ErYAG
2 session of biofiller




POST



PRE

CASE 3
28/F,with post traumatic scar
Treatment naive
1 session of biofiller



POST

RESULTS

Visual_Analogue Scale was graded as

grade 0-not satisfied

grade 1- slightly satisfied

grade 2- very satisfied

grade 3- extremely satisfied

.All 3 patients had grade 2 improvement at 3 weeks .

CONCLUSION

- Volumetric filling of atrophy can be done by autologous fat, dermal grafts & synthetic fillers.
- Challenges with common method- costly,invasive procedure & needs expertise
- Biofiller-an older yet reliable method- simple, minimally invasive, cost-effective
- No risk of immunogenic reaction.
- Effective means to increase patient acceptance of synthetic fillers.

REFERENCE:1.Gupta S, Borde Bisht P, Kannan C. Bio-Filler: An Effective Facial Rejuvenation Tool-Easy on Pocket. J Cutan Aesthet Surg. 2020 Jul-Sep;13(3)
2.Bhatt M, Jamale V, Kale M, Hussain AA, Nikam BP. Monotherapy of Biofiller for Atrophic Acne Scars: A Prospective Nonrandomized Study. J Cutan Aesthet Surg. 2022 Jul-Sep;15(3)