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Short Communication

A Unique Technique to Treat Keloid with PRP

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Abstract

Keloid is a healing process after skin injury in which extra scar tissue grows, forming smooth and hard growths. We are presenting a case of Keloid treated first time only with PRP.

Keywords: Keloid; Platelet-Rich Plasma

Objective of the Study

A case of keloid (Right) side face treated with platelet rich plasma (PRP) Injections. The objective of this case study is to evaluate the efficacy of the authors PRP therapy protocol for keloid treatment.

Mechanism of action

We hypothesised that a feedback mechanism of the transforming growth factor (TGF)-β1 signalling pathway, triggered by high-level TGF-β1, activates platelet-rich plasma (PRP) release to reduce connective tissue growth factor (CTGF) production and expression of CTGF mRNA in hypertrophic scar dermal fibroblasts.

Main outcome measure

For the purpose of this study, recurrence was defined as any sign of extraordinary erythema, induration, and hypertrophy beyond the site of excision.

Result

The keloids treated with 4 PRP injection at interval of 15 days between each injection, there is no evidence of recurrence. The size of keloid reduced around 90%.

Conclusion

Platelet Rich Plasma therapy achieved a 90% nonrecurrence rate at 1- to 3- month follow-up 4 injection at 15 days gap. This protocol appears to be a safe and viable option in the management of keloids and merits further randomized controlled study of its comparative efficacy [1-14].

Figure

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