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Surgical excision of keleooid in the ear lobule and reconstruction with full thickness graft followed by injection of prp & hyaluronic acid-a case report. Innovative method of placement of prf membrane following punch grafting

32 year old man reported with gross swelling of the left ear lobule following ear piercing. The swelling measured 4.8*3.9cms. Excision of the growth followed by reconstruction with full thickness skin graft was done. The excised specimen was found to be keleooid on histopathological examination. Patient reported on 5th day with signs of graft failure. Dressing was done, followed by injection of PRP & 2% hyaluronic acid to promote healing. Regular follow up and dressing was done. Patient was injected steroid injection at the recipient site at monthly intervals. Satisfactory healing was observed for auricular defect reconstruction with full thickness graft from the lateral thigh. PRP & Hyaluronic acid enhanced the healing in the post operative phase. Patient was followed up for upto 16 months with no signs of recurrence. Conclusion: Surgical excision of keleooid and reconstruction with full thickness graft followed by administration of PRP & Hyaluronic acid with regular steroid injection showed no recurrence and graft failure with satisfactory healing. The study also explores the possibility of necessity of PRP & Hyaluronic acid for routine cosmetic surgeries involving graft placement in the maxillofacial region.

Recent Publications:

1. Park TH, Park JH, Chang CH (2014) Analysis of surgical treatments for earlobe keleooids: analysis of 174 lesions in 145 patients. *Plast Reconstr Surg*.
2. DI Stadio A (2016) Ear keleooid treated with infiltrated non-cross-linked hyaluronic acid and cortisone therapy. *In Vivo* 30:695-699
3. De Angelis B, D' Autilio MFLM (2019) Wound healing: *in vitro* and *in vivo* evaluation of a bio-functionalized scaffold based on hyaluronic acid and PRP in chronic ulcers. *J Clin Med Res*
4. Hewedy E-SS, Sabaa BE-SI (2022) Combined intralesional triamcinolone acetonide and platelet rich plasma versus intralesional triamcinolone acetonide alone in treatment of keleooids. *J Dermatolog Treat* 33:150-156
5. Ogawa R (2022) The most current algorithms for the treatment and prevention of hypertrophic scars and keleooids: a 2020 update of the algorithms published 10 years ago. *Plast Reconstr Surg* 149:79e-94e.

Biography

Rubin S John, is an Associate professor in the Department of Oral & Maxillofacial Surgery, Saveetha Dental college, Chennai. He has ample publications, innovations, in his name with a special affinity towards cosmetic surgeries. He is a fellow in aesthetic medicine, Implantology with also a masters' in hair transplant. He is also the director of IMSAT, one of the pioneer institute for aesthetic training in India. He has trained countless young doctors interested in the field of facial aesthetics. Winner of the National education brilliance award, 2022 for Facial aesthetics, he is also a GSA council accredited Teaching faculty.

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