Postauricular Advancement fascio-cutaneo-periosteal Flap For Closure Of Mastoid Cutaneous Fistula
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ABSTRACT
Background: Postauricular cutaneous mastoid fistula is a rare complication of chronic suppurative otitis media, may also complicate ear surgery and very rarely, it has been reported to complicate congenital cholesteatoma. Few authors have given descriptions of techniques of closure, with majority agreeing on the difficulty in managing such fistula due to necrotic nature of the margin.
Setting: Tertiary care urban referral hospital in a developing economy.
Methodology: A new technique of closure of post auricular cutaneous mastoid fistula is described. This technique utilizes the post auricular fascio-cutaneo-periosteal advancement flap with Burrow's triangles following excision of the fistula margin. Details of this technique is described.
Results: 2 adult females with cholesteatoma, aged 33 and 41 years were successfully managed using this technique. The first case, diagnosed right ear cholesteatoma with automastoidectomy and persistent discharging cutaneous mastoid fistula had completion of canal wall down mastoidectomy with postoperative cleaning of mastoid cavity. The mastoid cutaneous fistula persisted post op. despite conservative treatment and was treated using this technique 14 months post surgery with successful outcome. The second case with left attic cholesteatoma extending to the mastoid antrum had canal wall up mastoidectomy with limited atticotomy, but developed persistent mastoid cutaneous fistula 4 months postop and was treated with this technique. She had delayed wound healing but fistula eventually closed. Both cases have been followed up for 24 and 18 months respectively with no recurrence
Conclusion: Postauricular advancement flap is effective for closure of persistent cutaneous mastoid fistula
Keywords: Mastoid cutaneous fistula, Cholesteatoma, Mastoidectomy, Flap