Management of Earlobe Keloids in Lokoja, Nigeria: A review of twelve cases.

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Abstract:
Background: The management of earlobe keloids need to be well highlighted especially among young ladies of African descent as cosmesis is almost always an issue. More so, that there is no clearly defined universally accepted management protocol among medical practitioners. Recurrence is high even after an arduous treatment, follow up visits are mandatory and so patience is required. Choice of treatment depends on the site, size, duration and depth of the lesion. Surgical excision, low-tension wound closure, intra operative corticosteroid injections and pressure wound dressing will give a good cosmetic outcome. Despite all of these, the patient needed to be adequately counseled about recurrence and follow up visits.

Materials and Method: Seven patients with earlobe keloids, 2 unilateral and 5 bilaterally involvement, making a total of twelve earlobe keloids. They were one male and six females, that were treated with surgical excision, low-tension wound closure, intra-operative corticosteroid injections, pressure wound dressing and six weeks of post operative corticosteroids injections. In all patients, a follow-up period of 6 months was the minimum duration.

Results: Male to female ratio was 1: 6, mean age was 28.1years. Ten of the earlobe keloids (83.3%) resulted from ear piercing and with recurrence in one of the ears (8.3%).

Conclusion
Although the sample size is small, follow up period short, surgical excision with adjuvant corticosteroids offers a good outcome. I recommend that Surgeons should stick to treatment that give them best results in their areas of practice with the hope that continued research may one day lead to a better standard of managing these lesions.

Key words: Management, Earlobe, Keloids, Lokoja, Nigeria

I. Introduction
Keloids are benign skin lesions arising from exuberant proliferation of collagen substance during the healing phase of wound. In 1806, Alibert was said to have used the term keloid, meaning "crab claw," to described the way the lesions expand laterally from the original scar into normal tissue. Earlobe keloids usually developed in predisposed individuals at sites of skin injury or as a result of surgical procedures or earlobe piercing or burns. Keloids at presentation appear as smooth, globular, shining swellings having the same colour as that of the surrounding skin and may occur in one or both ears. Besides cosmetic complaints, others include pain, numbness and itching. These nodular skin lesions may appear like neoplasms and capable of causing much physical disfigurement that borders on the patient’s cosmetic and psychological trauma. Whereas keloids grow beyond the original borders of the wound, hypertrophic scars do not extend beyond the original borders of the wound or injury as shown in figures 1 & 2. The hypertrophic scar may regress with time but the keloids will not regress irrespective of time interval given to it to do so. Hypertrophic scars and keloids are commoner in young Blacks, Hispanics and the Orientals. Common sites include the shoulders, sternum, earlobes, cheeks and upper arms in susceptible individuals. Predisposing factors may include ear piercing commonly for earrings, surgical wounds, burns and any other form of trauma.
II. Patients and Method

Twelve ears with earlobe keloids were treated with surgical excision, low-tension wound closure, intraoperative corticosteroid injections, pressure wound dressing and six weeks of post operative corticosteroid injections. In all patients, a follow-up period of 6 months was the minimum required.

III. Results

One male and six females were involved in the study, with a male to female ratio of 1: 6. The mean age was 28.1 years. Ten of the earlobe keloids (83.3%) resulted from ear piercing and the other two were due minor trauma to the ears. A recurrence in one of the ears (8.3%) occurred within the follow up period.

IV. Discussion

It is often said that prevention is better than cure, so it is with hypertrophic scars and keloids. Whenever possible, they should be prevented because treatment is difficult with a high incidence of recurrence. In dark skinned people, it is important to ask deliberately for a family history of keloid formation. If the patient’s family history is positive for keloid formation, such a person should be discouraged from ear piercing and if he or she must pierce the ear, advice to wear a pressure earring should be given. Surgical incisions in such patients should follow Langer’s lines whenever possible, none tension suturing with tapes application may help reduce hypertrophic scars and keloids formation. In a study by Asilian et al found that the use of steroids in combination with 5-fluorouracil and pulsed-dye laser reduced hypertrophic scars and keloids formation. In a prospective study of 121 keloid patients, managed in two teaching hospitals in Nigeria by Olaitan et al found out that the symptoms associated with keloids include cosmesis 100.0%, itching 28.9%, pain 26.4%, burning sensation 19.3% and foul smell 3.3% respectively.

The primary therapy of earlobe keloids is surgical excision with corticosteroids injections, pressure dressing, and follow-up. Other adjuvant therapies include the use of silicone cream occlusive dressing, pressure garments, onion extract, bleoyomycin tattooing, mitomycin C, tamoxefin citrate, methotrexate, imiquimod/resiquimod, retinoids with or without steroid combination, botulinum toxin A, vascular endothelial growth factor inhibitor etc. The use of interleukin-10 and calcineurin are still under clinical trials.
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References