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Tagliaclozzi Flap as a "Life Boat" Surgery for Paramedian Forehead Flap (PFF) Failure

Kanishk Vishnoi*, Chaitanya Ramteke, Deepika B Garg and PS Nagpure

Department of Otorhinolaryngology and Head and Neck Surgery, Mahatma Gandhi Institute of Medical Sciences (MGIMS), Maharashtra, India
*Corresponding author: Kanishk Vishnoi, Department of Otorhinolaryngology and Head and Neck Surgery, Mahatma Gandhi Institute of Medical Sciences (MGIMS), Maharashtra, India, Tel: 7619064659; E-mail: vishnoikanishk@gmail.com

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Abstract

Tagliaclozzi flap is a random pattern tubed pedicle flap harvested on the antero-medial surface of the arm, technique which developed in the 16th century. Developed by the Italian pioneer surgeon Gaspare Tagliaclozzi which according to some was based on the trade secrets of "Sushruta Samhita" which traveled to Italy *via* its Arabic translation in the 8th century and the "Italian methods of nasal reconstruction" were developed. This technique is revisited in the case described as the life boat for paramedian forehead flap failure.

Keywords: Tagliaclozzi flap; Nasal reconstruction; Life boat; Paramedian forehead flap; Tagliaclozzi

Introduction

This study describes a patient who was a unique case of human bite on the ala region during a fist fight and reconstruction was done by a standard paramedian forehead flap [1]. Patient was a cigarette smoker with upwards of 25 pack years, and nutritional status was not optimum [2]. Patient developed forehead flap necrosis within 5 days and the reconstruction was done with "Tagliaclozzi" flap on his left arm subsequently. In the second stage flap was divided and resuturing was done and conchal cartilage was placed in the tissue pocket. Third stage was debunking of the tissue and fine tuning of the flap.

Case Presentation

The Tagliaclozzi flap is a random pattern flap that has been used historically for nasal reconstruction [3]. This pedicle flap is based on the deltoid branches of the thoraco-acromial artery and re-currents from ulnar and radial artery and is considered to be the stepping stone for the advanced nasal reconstruction today (Figures 1-3). Decision of its preference over free flap (radial artery based) was taken based on many factors including smoking and economical aspect. Patient being an auto rickshaw

driver was not willing for any advanced plastic surgery procedures. Necrosis of the forehead flap was another factor of the patient denying to give consent for the free flap (Figure 4). The immobilization procedure is one particular disadvantage of this flap which lead to stiffening of shoulder for this patient [4]. Advantage of this flap was the thin skin of the arm which was used to give scaffolding for the conchal cartilage which was being used to reconstruct the alar grove. The timing of reconstruction was also key for taking the decision to choose this flap as patient was not willing to extend the hospital stay more than a month [5]. Forehead flaps have a particular disadvantage of facial scarring which can be avoided by using this flap in cases where it suits (Figures 5 and 6).



Figure 1: Preop defect.



Figure 2: Forehead flap failure.



Figure 3: Nasal reconstruction with tagliacozzi flap.



Figure 4: Division of tagliacozzi flap based on the choncal cartilage framework.



Figure 5: Result after 1 month of reconstruction.



Figure 6: After fine tuning and restoring under local anaesthesia showing post op hyperpigmentation.

Results and Discussion

The results of this surgery lead to psychosocial rehabilitation of the patient within his community [6]. Nasal disfigurement in particular is considered a big stigma in the Indian rural community and thus affects the quality of life of the patient which was the main factor for giving consent for multiple reconstructions. This study explained how such patient can be dealt with when the initial forehead flap fails (workhorse flap).

Conclusion

The result was satisfactory for the patient and the patient is able to rehabilitate in his community confidently. Author emphasis on the point that Tagliaclozzi flap although inferior to the free flap can be used in certain situations. This can be used in the case of chronic cigarette smokers where a chance of flap necrosis is high. With physiotherapy the complications of immobilizations can be managed. The time of reconstruction is markedly reduced using the Tagliaclozzi flap.

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