

Grafting versus Suture techniques in Tip Rhinoplasty

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By

Hamed Mohamed Kadry
M.B.B.Ch.

Supervised by

Prof. Dr. Fathy Farouk Khodeir
Professor of General and Plastic Surgery
Cairo University

Dr. Sameh Abdelaziz El Noamany
Lecturer of General and Plastic Surgery
Cairo University

Faculty of Medicine
Cairo University
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ABSTRACT

Nasal tip surgery is regarded as the most challenging aspect of plastic surgery. No routine tip procedure is ever used. Nasal tip harmony improves its visual appeal ***Aim of work:*** To study and implement the different surgical treatment options for the management of the various nasal tip deformities. ***Patients and methods:*** 20 patients with various tip deformities were operated upon through an open approach accompanied by either sutures or various grafts. ***Conclusion:*** management of nasal tip deformities with combined suture techniques and grafting provides the optimum cosmetic result.

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Introduction and Aim of work

Facial beauty is an art related to balance and symmetry of different parts of the face, including the nose. Therefore, the nose must be in harmony with the other components of the face; otherwise, it loses its beauty. The balance theory of the nose was pioneered by *Dr Sheen 1975. (El-Sahy,2000)*

An important issue in the outcome of rhinoplasty is judged by the relation of the nasal tip to the dorsum at the end of surgery. Experienced surgeons regard surgery of the nasal tip as the most challenging and exacting aspect of plastic surgery.(*Rohrich et al.,2003*)

The nasal tip shape and projection depend on the shape of the cartilaginous arch, which is determined by the lateral crus, medial crus & the junction between them: the dome. The nasal tip appearance is ideally represented by four key landmarks characterized by three prominences. (*Vertu-Ciolino & Disant, 2007*)

No routine tip procedure is ever used. Instead tip sculpturing techniques are selected entirely on the basis of the analysis of varying tip anatomy. Increased control and predictability of this part of the procedure are achieved by preserving the anatomical structures of the nose using suturing techniques that are reversible and incremental. (*Toriumi ,2006*)

Limiting visible onlay grafts also fits the concept of non destructive techniques in modern rhinoplasty. At the same time some of well described maneuvers can result in consequences or can even cause complications of the procedures. For instance, dome definition sutures and extensive correction of the lateral alar convexities can lead to pinching of the tip and external valve narrowing with breathing problems.(*Behmand et al.,2003*)

Decreasing the tip projection by resection of dome segments should be followed by the use of camouflage tip grafting which causes the same problems as application of the other grafts in the tip and supratip areas. (*Neto et al., 2008*)

Aim of work

This study will include 20 patients, chosen with different tip deformities. Management of these patients involves an open rhinoplasty accompanied by either sutures or various grafts. The purpose of this study is to work out a complex of the techniques to improve the results in tip rhinoplasty.

مقارنة بين الترقيع الغضروفي والغرز الجراحية في عمليات تجميل طرف الانف

رسالة مقدمة من

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للحصول عل درجة الماجستير في

الجراحة العامة

تحت إشراف

الأستاذ الدكتور/ فتحي فاروق خضير

أستاذ الجراحة العامة و التجميل

كلية طب قصر العينى- جامعة القاهرة

الدكتور/ سامح عبد العزيز النعماني

مدرس الجراحة العامة و التجميل

كلية طب قصر العينى- جامعة القاهرة

كلية الطب-جامعة القاهرة

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LIST OF ABBREVIATIONS

Abbreviation	The full term
ACR	Alar Columellar Complex
ICD	Intercrural distance
IFP	Interdomal pad of fat
LLC	Lower lateral cartilage
SMAS	Superficial musculo apneurotic system
TPG	Tip point grade
TPs	Tip Defining points

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KEY WORDS

Rhinoplasty , nose, tip , suture, grafts , combined , open approach