

5th World Congress on
DENTISTRY AND MAXILLOFACIAL SURGERY
September 18-19, 2023 | Rome, Italy

Received Date: 06-04-2023 | Accepted Date: 06-06-2023 | Published Date: 10-20-2023

Allogenic nasal cartilage for grafting in dorsal rhinoplasty

Armen Harutyunyan, Gagik Hakobyan
Yerevan State Medical University, Armenia

Statement of the problem: Among the defects of the nose, the saddle type of the nose is often found, which is associated with the loss of the dorsal part of the quadrangular cartilage. In patients with a saddle nose, the aesthetics of the face are disturbed, which makes the patient turn to the rhinoplasty method.

Background: The aim of this study was to evaluation of long-term outcomes and patient satisfaction after nasal dorsal rhinoplasty with an allogeneic cartilage graft of the nasal septum.

Materials and methods: This study included 104 patients, ean age at surgery was 28.7 years (41 males; 63 females) who underwent nasal dorsal augmentation with allogeneous nasal septal cartilage graft from 2017 to 2023. Donor patients were patients who had taken excess nasal septal cartilage during functional rhinoplasty. According to the indications, crushed allogenic septal cartilage graft and PRF was also used. The aesthetic results of rhinoplasty were assessed from preoperative and postoperative photographs and also by visual inspection. To assess the results of aesthetic rhinoplasty Visual analogue scale (VAS) «Utrecht Questionnaire» was used.

Results: In 86 patients included in the study, there were no serious complications there was no deformation or extrusion. Allograft resorption was not observed in any of the cases. Analysis of mean aesthetic scores according to the visual analogue scale (VAS) showed significant improvement after rhinoplasty from 3.6 preoperative to 8.3 (P <0.001) 3 months after surgery and 8.9 (P <0.001), respectively 1 year after surgery. Preoperative and postoperative mean aesthetic scores according to the visual analogue scale (VAS)

Conclusions: Rhinoplasty with allogeneic cartilage graft of the nasal septum allows to achieve stable positive functional and aesthetic results and safe alternative to autologous cartilage in rhinoplasty, preventing complications, and additional surgical procedures. Rhinoplasty with allogeneic cartilage graft of the nasal septum allows to achieve stable positive functional and aesthetic results.

Recent Publications

1. Hakobyan, G., Boyadjian, A., Boyadjian, M, Harutyunyan A. et al. Clinical advantages of improving the excessive gingival display (EGD) by surgical repositioning of the upper lip. Clin Oral Invest 26, 7265–7275 (2022). <https://doi.org/10.1007/s00784-022-04687-4>
2. Hakobyan, Khachatryan Levon, Khachatryan Grigor, Tunyan Gegham, Armen Haruthyunyan. Assessment of the Success of Oral Rehabilitation of Patients with Teeth Loss and Class III Skeletal Malocclusion Archives of Oral and Maxillofacial Surgery, 2021,4 (2) , DOI: 10.36959/379/367
3. Gagik Hakobyan, Zoya Evsyukova, Elena Ribakova, Armen Haruthyunyan. Evaluation of the effectiveness of neodymium laser therapies for Rosacea of the face. MGM Journal of Medical Sciences. 2021,8 (2) 111-119. DOI: 10.4103/mgmj.mgmj_89_20

Biography

Armen Harutyunyan's educational journey began with studies at Saratov State Medical University from 2002 to 2003. He continued his pursuit of medical excellence at Yerevan State Medical University after Mkhitar Heratsi, graduating between 2003 and 2007. His dedication to specialization led him to complete a Clinical Residency in Maxillofacial Surgery at a prominent Municipal Hospital from 2007 to 2010

E: armen.eduardovich@gmail.com