Inferior Turbinate Reduction

“Comparative Study”

Wasam A. Albusalih , MB.CH.B. C.A.B.M. OTL , Head & Neck surgery , Diwnyia teaching hospital , Diwanyia , Iraq .

Abstract

Background : inferior turbinate hypertrophy is one of the most common causes of nasal obstruction .Many different surgical methods are available for treatment of this . condition

Study design and objectives : this is a comparative retrospective study carried out on patients who underwent surgical turbinate reduction of the inferior turbinates in .the period between March 2015 and March 2017

This study compares between the rate of complications between partial inferior turbinectomy and endoscopic powered turbinoplasty. The study carried out at .Otolaryngology department ,at Ad Diwanyia teaching hospital , Diwanyia city, Iraq

Results : A total of 50 patients with nasal obstruction had been included in this study. The patients were divided into two groups. The first group treated by surgical inferior turbinectomy while the second group by powered endoscopic turbinoplasty. The gender distribution was(15(52%) male and 10(48 %) female and 14(48%) male and 11(62 %)female) for the first and second group respectively with no significant difference between the two groups($p>0.05$) . The mean age of first group was 27.40±7.7 years while the mean age of second group was 26.68±6.82 years with no significant difference between the two groups ($p>0.05$).There is significant difference between the two groups in occurrence of severe bleeding and crustation which is higher in group 1 ($p<0.05$).There .is no statistically significant difference in atrophic rhinitis but it is clinically important

Conclusion : Powered endoscopic turbinoplasty associated with less post operative . complications than partial inferior turbinectomy

Publication

1. Peter-John Wormald. Powered Inferior Turbinoplasty. Endoscopic Sinus Surgery Anatomy,Three-Dimensional Reconstruction, and Surgical Technique 2018 ; 4:22-32.

2. Luisa F Grymer.The management of enlarged turbinates. Scott-Browns Otorhinolaryngology, Head and Neck Surgery 2008; 125:1589-95.

3. Roy R.Casiano , Islam R. Herzallah, Amy S.Anstead, Jean Anderson Eloy, Adam Folbe, Lori Lemonnier, Belachew Tessema. Basic Endoscopic Sinonasal Dissection, Inferior turbinoplasty and submucous Resection of the inferior turbinate. Endoscopic Sinonasal Dissection Guide 2012; 5:23-25.

4. David A.Randall. The Nose and Paranasal Sinuses. Essential Otolaryngology 2003; 30:713.

5. Warner Hosemann and Jochen Fanghanel. Inferior Turbinoplasty. A Dissection Course On Endoscopic Endonasal Sinus Surgery 2005; 8.12:33.