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# Inferior turbinate reduction comparative study

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**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 & 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 Diwaniya Teaching Hospital, Diwaniya, 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  $27.40\pm 7.7$  years while the mean age of second group was  $26.68\pm 6.82$  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.

## Recent Publications

1. Peter-John Wormald (2018) Endoscopic Sinus Surgery Anatomy, Three-Dimensional Reconstruction, and Surgical Technique. Powered Inferior Turbinoplasty 4:22-32.
2. Luisa FGrymer(2008). Scott-Browns Otorhinolaryngology, Head and Neck Surgery. The management of enlarged turbinates 125:1589-95.
3. Roy R Casiano, Islam R Herzallah, Amy S Anstead, Jean Anderson Eloy, Adam Folbe, Lori Lemonnier and Belachew Tessema (2012) Endoscopic Sinonasal Dissection Guide. Basic Endoscopic Sinonasal Dissection, Inferior turbinoplasty and submucous Resection of the inferior turbinate. 5:23-25.
4. David A Randall (2003) Essential Otolaryngology. The Nose and Paranasal Sinuses 30:713.
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## Biography

Wasam A Albusalih has completed his Graduation at College of Medicine, Baghdad in 1999, Degreed in Otorhinolaryngology Head and Neck Surgery in 2013. His research interest is in endoscopic sinus surgery and he did more than 100 successful DCR and about 500 endoscopic sinus operations with few endoscopic skull base operations in last 3 years at Diwaniya, Iraq.

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