

inferior turbinate hypertrophy was found in 40 patients (100%).

**Table 2. Patients' Complaint**

Complaint	No.	%
Nasal obstruction	40	100
Mouth breathing	40	100
Sneezing	12	30
Snoring	20	50
Nasal discharge	26	65
Hyposmia	20	50
Facial pain	4	10

Subjective symptoms such as nasal obstruction, sneezing, nasal discharge, bleeding, hyposmia and facial pain, were evaluated on the 7<sup>th</sup> day and in the first, second, third, sixth and twelve months after the procedure. The microdebrider-assisted inferior turbinoplasty was perfectly tolerated by the patients. No crusting and synechia were observed, and no post-operative bleeding except few drops after removal of packing and stopped spontaneously.

**Table 3. Duration of Postoperative Airway Patency**

Duration	No.	%
1 week	30	75
1 month	37	92.5
3 month	37	92.5
6 month	37	92.5
12 month	37	92.5

The severity of nasal obstruction improved significantly during the first week after operation, 30 patients with good airway, and 7 patients had moderate improvement, while 3 patients had no improvement. After one month, 37 patients had good airway passages and persisted till 12<sup>th</sup> month after operation, while 3 patients with mild improvement. This improvement was observed clinically (table 3). The severity of nasal discharge, sneezing, facial pain and hyposmia had significantly improved in the 1<sup>st</sup> week of operation and persisted in the

12th month after the operation table 4. Three patients developed mucosal tear but no mucosal loss and those managed by sodium bicarbonate 2% nasal douche and antibiotic for one week table 5. Table 6 shows the mean and the median of resistance preoperatively and postoperatively. The rhinomanometric examination was carried out one- day preoperatively, and 6–12 weeks postoperatively table 7.

**Table 4. Preoperative and postoperative subjective and objective Data**

Complaint	Preoperative	Postoperative improvement (%)	
		Yes	No
Nasal obstruction	100	7.5	92.5
Sneezing	30	0	100
Hyposmia	10	0	100
Nasal discharge	65	0	100
Facial pain	10	0	100

**Table 5. Postoperative Complications**

Complications	No.	%
Bleeding	0	0
Mucosal tear	3	7.5
Crusting	0	0
Synechia	0	0
Dryness	0	0

**Table 6. Preoperative and Postoperative resistance (Pa/cm<sup>3</sup>/s)**

Site	Preoperative		Postoperative	
	Mean	Median	Mean	Median
Right side	2.84	1.20	0.72	0.41
Left side	2.37	1.18	0.70	0.45
Total	0.82	0.52	0.26	0.21

## Discussion

In this study, we treated 40 patients with chronic nasal obstruction due to inferior turbinate hypertrophy by microdebrider technique and we found that the nasal airway was significantly improved in 92.5% of the patients, with no crustation or adhesion. Most of the patients