

# UTILITY OF HADAD FLAP IN RECONSTRUCTION OF ANTERIOR SKULL BASE DEFECTS FOLLOWING ENDOSCOPIC TRANSNASAL, TRANS SPHENOIDAL APPROACH TO PITUITARY-OUR EXPERIENCE

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Date of receipt of article -08-02-2017

Date of acceptance – 25-04-2017

[DOI- 10.21176/ojohns.2017.11.1.6](https://doi.org/10.21176/ojohns.2017.11.1.6)

DOI URL - <https://doi.org/10.21176/ojohns.2017.11.1.6>

## HOW TO CITE THIS ARTICLE

Harshita V.S, Shruthi GS, Santosh AN, G Prabhakar, Ananthkrishnan. Utility of Hadad flap in reconstruction of anterior skull base defects following endoscopic transnasal. Trans sphenoidal approach to pituitary-our experience. Orissa J Otolaryngology Head Neck Surgery 2017 June; 11(1): 37-42. DOI: 10.21176/ojohns.2017.11.1.6

## ABSTRACT:

**Objective:** To study the utility of Hadad flap in reconstruction of anterior skull base defects following endoscopic transnasal, transsphenoidal approach to pituitary tumours in conjunction with multi-layered reconstruction.

**Setting:** The study was conducted in the departments of Otorhinolaryngology and Neurosurgery in a tertiary care referral hospital.

**Patients:** 20 consecutive patients with pituitary tumours underwent endoscopic transnasal transsphenoidal approach for resection followed by reconstruction of consequent skull base defects with Hadad flap in conjunction with multilayered approach.

**Results:** 3 out of 20 (15%) patients had early postoperative CSF leak, 2 out of which ceased after repositioning of malaligned Hadad flap. 1/20 (5%) patients continued to have delayed postoperative CSF leak.

**Conclusion:** Hadad flap has proved itself to be the workhorse of anterior skull base reconstruction in most instances. It has heralded an era of vascularised flap based reconstruction in endoscopic transnasaltranssphenoidal surgeries.

**Key words:** [Nasoseptal flap, endoscopic transnasal transsphenoidal surgery.](#)