

## Hadad-Bassagasteguy Flap (HBF) in Endonasal Reconstruction of Anterior Skull Base Defects

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### Abstract

**Introduction:** To study the clinical outcomes of Hadad-Bassagasteguy flap (HBF) in endonasal reconstruction of anterior skull base defects.

**Methods:** We prospectively analyzed the demographic data & the outcome results particularly Post-operative CSF leak in 53 patients who underwent HBF in our hospital from February 2013 to June 2014. The early harvested flap was used to reconstruct anterior skull base defects among patients with high-flow on-table CSF leak. Post-operatively the patients were analyzed for CSF leak & bleeding.

**Results:** Most of the study subjects were between 21-50 years of age (73.6%). The mean age of the study subjects was  $41.8 \pm 13.8$  years. Male/female ratio of the study sample was 1.2 with 29 males and 24 females. Of the total 53 patients 46 (86.8%) has macro defects while 7 (13.2%) had micro defects. Non-secretory lesions were present in 60.4% (32/53) patients while secretory was present in 39.6% (21/53) patients. Cerebrospinal fluid leak was present in all the patients undergoing surgery and majority of them were put on lumbar drain, while bleeding was present in 49.1% patients. Of the total 53 patients only 2 had post-operative cerebrospinal fluid leak (2/53; 3.8%)

**Conclusion:** Use of HB posterior nasal septal flap for reconstruction of anterior skull base among patients with high-flow intra-operative CSF leak has a remarkable impact in preventing post-operative CSF leak. Its applicability to wide patient-profiles with respect to age, size of defect, diagnosis is making it a versatile choice of reconstruction after endonasal anterior skull base surgeries.

**Keywords:** Hadad-Bassagasteguy flap, endonasal flap, reconstruction of anterior skull base, reconstruction of Cerebrospinal fluid leak.



### Biography

Chandra V has completed his DNB and Fellowship in Head and neck oncosurgery at the age of 35 years from Maharashtra University of Health Science, India. He is the Professor of Datta Meghe University of Medical Science Maharashtra, India. He has over 31 publications that have been cited over 20 times and has been serving as a reviewer of reputed Journals.

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