

## Trans-Sphenoidal Approach to Pituitary Tumors: Analysis of 568 Cases Over a Decade

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**Abstract :** Since 2013, the authors have operated on 568 cases of pituitary tumors through the trans-sphenoidal route, using the binostril approach. The distribution included 486 cases of non-functioning pituitary tumors, 24 cases of Growth hormone(GH) secreting tumors(acromegaly), and 28 cases of adrenocorticotrophic(ACTH) secreting tumors(Cushing's Disease). The authors utilized neuro-navigation for 18 cases, and all belonged to the functional tumor category. Complications included ICA injury in 2 cases, fatal meningitis in 5 cases, while CSF leak required repair in 28 cases. Satisfactory excision was noted in 512 cases, while recurrence/residual required repeat surgery in 32 cases. Authors conclude that trans sphenoidal route remains the best and optimal way of managing sellar tumors, especially pituitary adenomas.

**Keywords :** pituitary, adenoma, trans-sphenoidal, endonasal, neuronavigation

**Conference Title :** ICPN 2024 : International Conference on Pituitary Neurosurgery

**Conference Location :** Sydney, Australia

**Conference Dates :** August 29-30, 2024