ENDOSCOPIC TRANSSPHENOIDAL SURGERY FOR SELLAR TUMORS

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SELLAR TUMORS

→ 10 - 15% of all intracranial tumors
→ Most sellar tumors are benign
- Pituitary adenomas
- Craniopharyngioma
- Rathke’s cysts
- Chordoma
- Meningioma
- ....
SELLAR TUMORS

Clinical presentation:
- Endocrin abnormalities
- Visual troubles
- Intracranial hypertension
- ....

SELLAR TUMORS

Treatment:
- Medical
- Radiosurgery
- Surgery
Before 2000: Transcranial approach

Since 2000: Sublabial Transseptal Transsphenoidal + Microscopic + C-arm
Since 2011: Endoscopic transsphenoidal + Navigation

Surgery Steps
RESULTS (n = 80)

- Male : 39 (48.75%)
- Female: 41 (51.25%)
- Average age (yr): 42

SELLAR TUMORS (n = 80)

- Pituitary adenomas: 69
- Craniopharyngioma: 6
- Rathke’s cysts : 4
- Chordoma : 1
Pituitary adenomas

Microadenoma

Macroadenoma

Craniopharyngioma
Chordoma

Rathke's Cleft Cyst
RESULTS (n = 80)

Intraoperative complications:
- Hemorrhage : 11
- ICA injury : 0
- CFS leaks : 12
- Stroke : 0

RESULTS (n = 80)

Postoperative complications
- Diabetes insipidus : 9
- Meningitis : 1
- Middle turbinate-septum adhesion: : 5
- Morbidity : 0
- CSF leaks : 0
- Anosmia : 0
- Average hospitalized time: 3 - 5 days
RESULTS (n = 75)

Tumor resection rate: Brain MRI after 3 months

- Total: 43 (57.3%)
- Subtotal: 29 (38.7%)
- Partial: 3 (4%)

Case clinic: 24 years old, Female, Prolactinoma
After surgery 3 months

Case clinic: 69 years old, male, Craniopharyngioma
After surgery 3 months

CONCLUSION

Endoscopic transphenoidal surgery for sellar tumors

- Minimal invasive
- Effective
- Less rhinological sequelae
- Cost saving method.
THANK YOU FOR ATTENTION