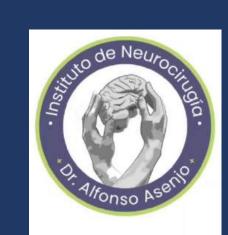


Endoscopic approach to tumors of the petrous apex, 10 years of experience

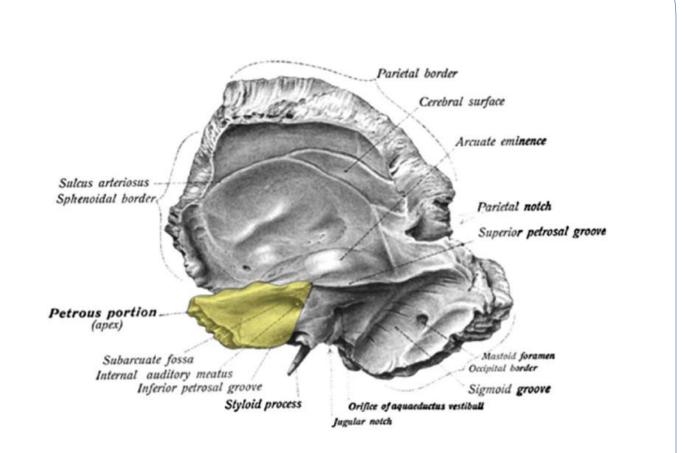


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Introduction

- Petrous apex is related to multiple structures which can be affected by the presence of tumors or by their surgical resection.
- ➤ Its surgical access is difficult and challenging
- ➤ We present the case series of patients diagnosed with tumors of the petrous apex, who underwent nasal endoscopic surgery

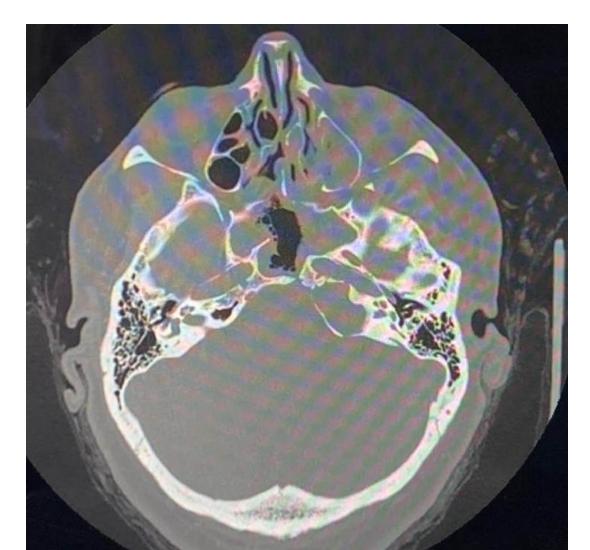


Epidemiological aspects	Nº of patients
Total	9 (100%)
Average age (years)	42.5 (7-73)
Male / female	4 (44%) / 5 (56%)

Objectives

- ➤ Describe the management of patients who underwent endoscopic resolution for petrous apex tumors at INCA by the otolaryngology and/or neurosurgery team between 2013-2023.
 - > Epidemiological aspects
 - > Clinical manifestations
 - > Surgical techniques
 - Results in terms of: complete resection rate, recurrence rate, postoperative discomfort and follow-up.

Clinical manifestationNº of patientsHeadache4 (44%)Unilateral hearing loss3 (33%)Involvement of the sixth cranial nerve2 (22%)Facial palsy2 (22%)Incidental4(44%)



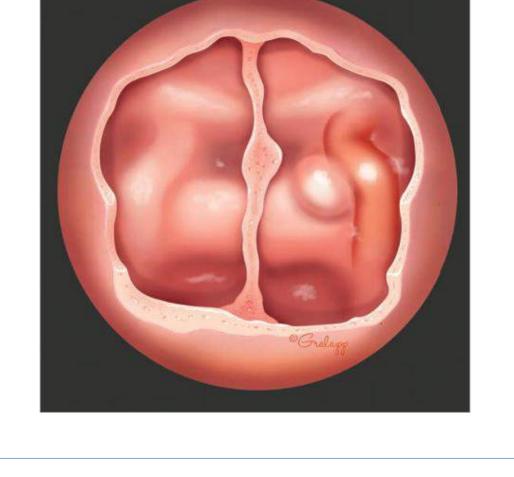


CT scan

MRI T1

Surgical Technique

- > In all 9 patients: endoscopic aproach
- > 8 (88%) transsphenoidal
- ➤ 1 (12%) transsphenoidal associated to transpterygoid
- > In all cases: biopsy of the tumor



A	В	C

Transsphenoidal aproach

Histological diagnosis	Nº of patients
Cholesterol granuloma	3 (33%)
Muocele of the petrous apex	1 (11%)
Cholesteatoma	1 (11%)
Chondrosarcoma	1 (11%)
Metastasis	1 (11%)
Langerhaans Histiocytosis	1 (11%)
Exocrine pancreatic tissue	1 (11%)

Follow up

Post-operative complications: 3 (33%)

Cerebrospinal fluid fistulas (2)Meningitis (1)

Recurrence: 2 (22%)

Average: 77,5 months