

Craniopharyngioma

- Benign, often partially cystic sellar region tumor derived from Rathke pouch epithelium
- Most common pediatric intracranial tumor of nonglial origin WHO grade I
- Pediatric,
 - commonly ages 5-10
 - Adamantinomatous
 - Frequently has bright cysts on T1 and usually calcified on CT.
- Adult variety : papillary noncalcified, solid.

Bimodal age distribution

- Adamantinomatous type
 - Peak 5-15 years;
 - 90% mixed solid (isodense), cystic (hypodense)
 - 90% calcify
 - 90% enhance (solid = nodule; rim = capsule)
- Papillary type:
 - > 50 years
 - Often solid, isodense, rarely calcifies

Location

- Vast majority of cases, craniopharyngiomas have a significant **suprasellar component** (95%),
- Most involving both the **suprasellar and intrasellar spaces (75%)**.
- A minority are purely suprasellar (20%),
- Purely intrasellar location is quite uncommon (<5%), and may be associated with expansion of the pituitary fossa ³,



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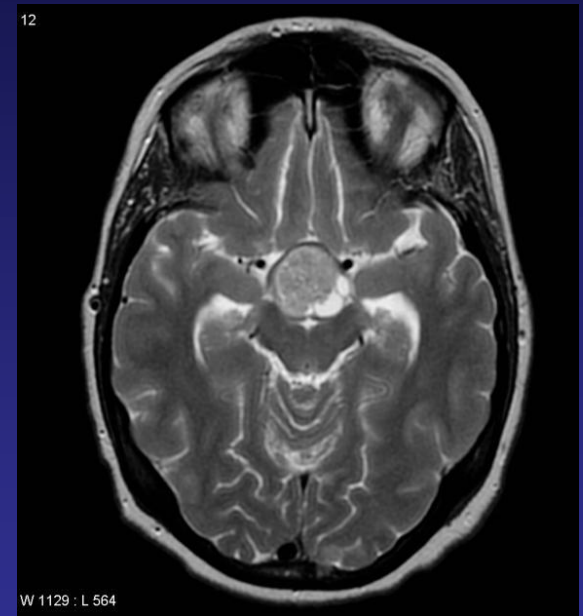
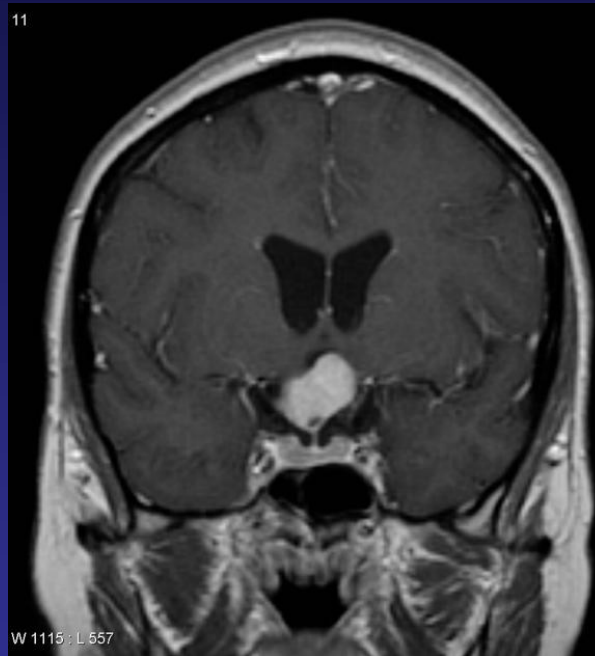
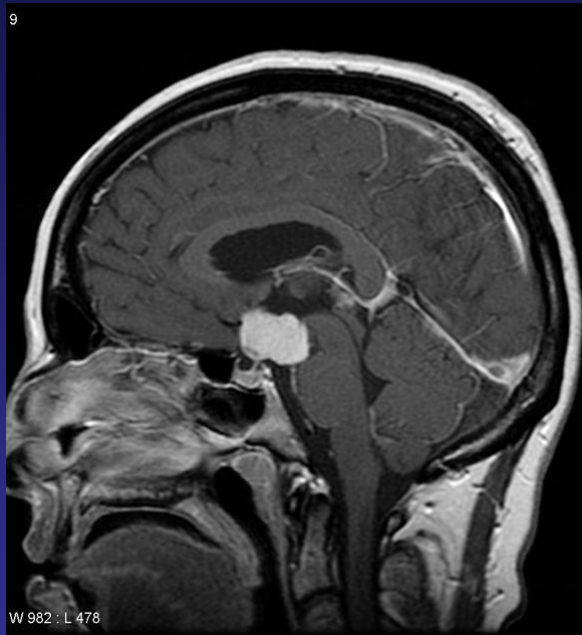
Sagittal T1WI C+ MR shows a complex partially cystic suprasellar mass with an enhancing rim → and solid components ⇨. The multilobulated cysts contain fluid of different signal intensities. Note the large, suprasellar, smaller intrasellar → components in this patient with classic craniopharyngioma



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Axial NECT shows a low attenuation suprasellar mass with rim → and globular → Ca++. Note the fluid-fluid level formed by intracystic keratin debris ⇨.

Papillary craniopharyngioma



Bright Sellar masses

- T1 shortening can be due to
- Blood products due to hemorrhage (apoplexy, hemorrhagic adenoma)
- As well as fluid in craniopharyngioma and Rathke Cyst.