

Giant Cell (Reparative) Granuloma of Basisphenoid in a 10 Year Old Girl

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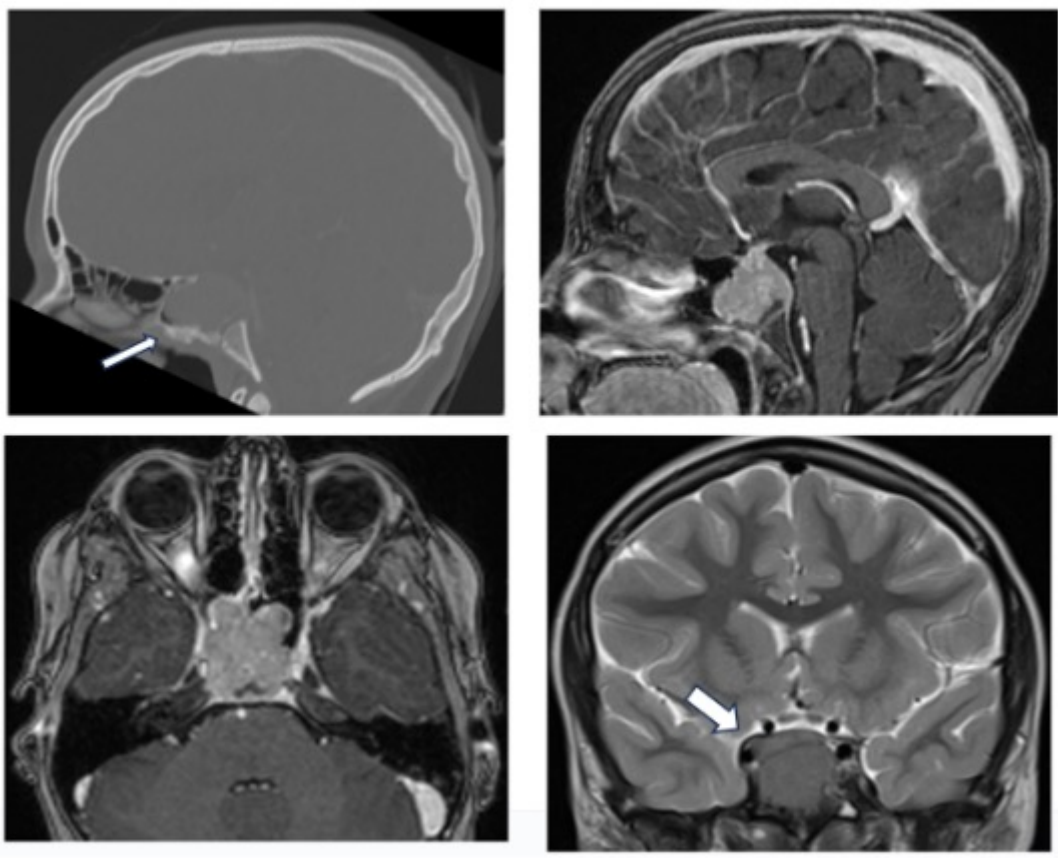


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Clinical Presentation

- A 10 year old female presented to ED with 5 days of headache and acute right eye ptosis. Neurologic exam was notable for dilated and less reactive pupil on the right, as well as ptosis, indicative of a peripheral, likely compressive CN3 lesion.

Imaging Discussion



CT head showed soft tissue mass causing destruction of basisphenoid and extending into sphenoid sinus.

MRI brain showed T1 and T2 hypointense mass with homogeneous enhancement centered in the basisphenoid and extending into the sphenoid sinus. There is a cavernous sinus extension beyond the median internal carotid line on the right.

Management and Outcome

- Patient underwent endoscopic resection of the tumor.
- Morphologic features are diagnostic of a giant cell (reparative) granuloma.
- Local recurrence occurred 3 months after surgery and the patient underwent re-resection and started denosumab.

Take Home Points

- Giant cell reparative granuloma is a rare disease which usually occurs in the mandible. Case reports in literature reported skull base involvement which is less common. It causes bone destruction and mass effect to adjacent structures.

References

- Kang MS, Kim HJ. Multiple Synchronous Central Giant Cell Granulomas of the Maxillofacial Region: A Case Report. J Korean Soc Radiol. 2010 Jan;62(1):11-15.
<https://doi.org/10.3348/jksr.2010.62.1.11>