

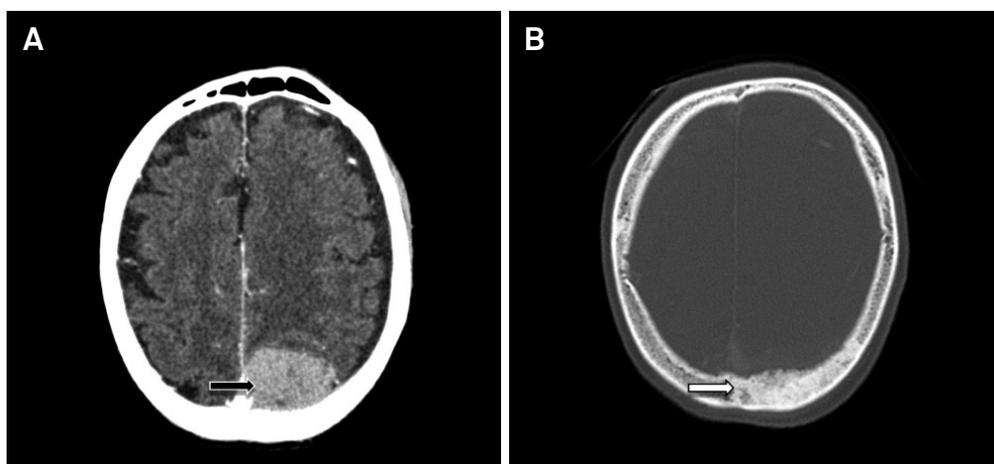
# Dural metastasis of prostate adenocarcinoma with spontaneous subdural hematoma: an unusual mimicker of meningioma

Metástase dural solitária de adenocarcinoma de próstata mimetizando meningioma: disseminação incomum de uma neoplasia frequente

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A 65-year-old male presented with abrupt onset of right hemiparesis. He was previously diagnosed with advanced adenocarcinoma of the prostate. Magnetic resonance imaging showed an extra-axial expansile lesion, located in the left perioral region associated with a nontraumatic subdural hematoma. Histopathology and immunohistochemistry of the lesion revealed metastatic prostate adenocarcinoma (Figure 1 and 2).

Dural metastasis from prostate adenocarcinoma is a rare condition, responsible for 1% of all cases<sup>1</sup>. Pathogenetic mechanisms include hematogenous spread and surgical seeding<sup>2</sup>. A dural metastasis usually presents as a solitary mass with avid contrast enhancement. Bone erosion and nontraumatic subdural hematoma may rarely be seen<sup>3</sup>.



**Figure 1.** Computed tomography shows an oval extra-axial lesion (black arrow) on the left parietal convexity, with intense and homogeneous enhancement in the post-contrast phase (a). Note the sclerotic bone associated (white arrow), suggesting osseous infiltration (b).

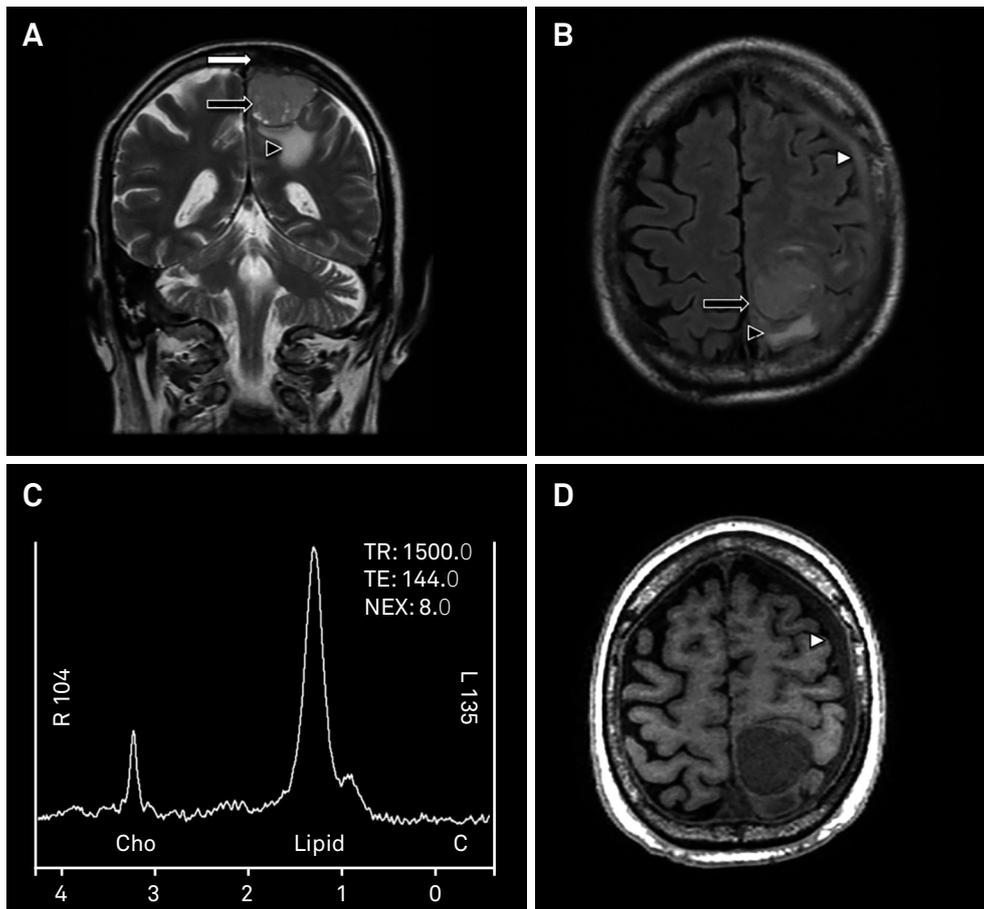
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**Figure 2.** Magnetic resonance shows left periorbital extra-axial expansile lesion (black arrow), hyperintense in T2-weighted images, associated with vasogenic edema (black arrowhead) and with sclerotic adjacent bone (white arrow) (a, b). Single-voxel proton spectroscopy showed absence of NAA and creatine peaks with increased choline (Cho) and large lipid/lactate peaks, suggesting metastatic origin (c). Also note left subdural hematoma (white arrowhead) (b, d).

## References

1. Guedes BDVS, Rocha AJ, Gama HPP, Silva CJ. Dural metastases from prostate carcinoma: A systematic review of the literature apropos of six patients. *Eur J Radiol.* 2011;80(2):236-40. <https://doi.org/10.1016/j.ejrad.2010.06.007>
2. Lath CO, Khanna PC, Gadewar S, Patkar DP. Intracranial metastasis from prostatic adenocarcinoma simulating
3. a meningioma. *Australas Radiol.* 2005;49(6):497-500. <https://doi.org/10.1111/j.1440-1673.2005.01473.x>
3. Smith AB, Rushing EJ. From the radiologic pathology archives: mass lesions of the dura: beyond meningioma: radiologic-pathologic correlation. *RadioGraphics.* 2014 Mar-Apr;34(2):295-312. <https://doi.org/10.1148/rg.342130075>