

Meningioma associated with non-traumatic subdural hematoma: an outstanding appearance of this common intracranial tumor

Meningioma intracraniano associado a hematoma subdural não traumático: uma apresentação excepcional deste tumor intracraniano frequente

Antônio José da Rocha¹, Nelson Saade², Adriano Zanon da Silva³

A 52-year-old man presented with a sudden progressive headache complicated on admission by a left hemiparesis. No history of trauma, alcohol abuse or concurrent systemic disease was confirmed. Imaging investigation depicted acute subdural hematoma (SDH) associated with an extra-axial tumor (Figure).

A combination of several pathogenetic mechanisms has

been hypothesized to explain this very rare association of intracranial meningiomas with spontaneous SDH^{1,2}. Meningioma is generally located on the convexity; however, no particular subtype of this tumor seems to predispose to this complication^{1,2}. We consider that herein reported imaging features might support the diagnosis before surgical approach.

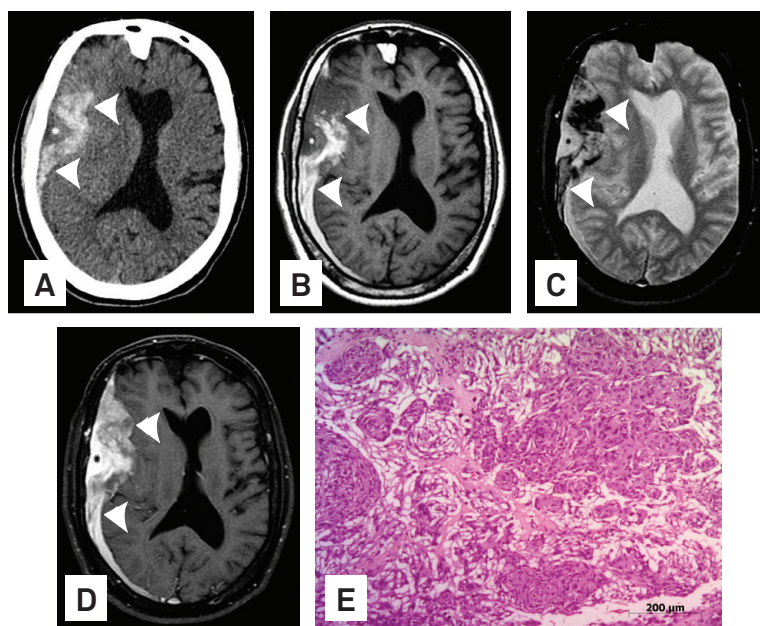


Figure. Meningioma associated with non-traumatic subdural hematoma. Axial computed tomography scan (A) showed heterogeneous subdural hemorrhage (arrowheads) associated with a dural attached tumor on right parietal convexity (asterisk). Axial T1 weighted image (B) and T2 gradient echo sequence* (C) distinguished both extra-axial contents, clot (arrowheads) and tumor (*). Comparative axial T1 weighted image post-gadolinium administration (D) depicted intense tumor enhancement (*). No enhancement was noticed on subdural hemorrhage (arrowheads). Surgical pathology (hematoxylin and eosine staining) confirmed a meningioma (grade I) with prevalent features of the meningothelial subtype associated with hemorrhage (E).

References

1. Di Rocco F, Mannino S, Puca A, Lauriola L, Pompucci A. Intracranial meningiomas associated with non-traumatic chronic subdural hematoma. *Acta Neurochir* 2006;148:1097-1102.
2. Lefranc F, Nagy N, Dewitte O, Baleriaux D, Brotchi J. Intracranial meningiomas revealed by non-traumatic subdural haematomas: a series of four cases. *Acta Neurochir* 2001;143:977-982.

¹Section of Neuroradiology, Santa Casa de Misericórdia de São Paulo, São Paulo SP, Brazil;

²Division of Neurosurgery, Santa Casa de Misericórdia de São Paulo, São Paulo SP, Brazil;

³Department of Pathology, Santa Casa de Misericórdia de São Paulo, São Paulo SP, Brazil.

Correspondence: Antônio José da Rocha; Rua Dr. Cesário Motta Junior 112; 01221-020 São Paulo SP - Brasil; E-mail: a.rocha@uol.com.br

Conflict of interest: There is no conflict of interest to declare.

Received 19 December 2012; Accepted 28 December 2012.