

Nonenhancing Hypovascular Extraventricular Neurocytoma

We read with interest the case report by Yang et al.¹ This was a nice presentation of 3 cases with extraventricular neurocytoma, which is a relatively rare tumor. The authors presented clinical, histopathologic, and immunohistochemical findings, along with the imaging characteristics. All tumors in their report showed marked enhancement. They concluded that this entity should be considered in the differential diagnosis of a large parenchymal mass with cystic necrosis, calcification, and/or hemorrhagic foci and extensive enhancement.

However, extraventricular neurocytomas may be completely nonenhancing. In an extraventricular neurocytoma case we presented with CT perfusion findings, the tumor was nonenhancing and hypovascular.² This was the first presentation of an extraventricular neurocytoma with perfusion findings, as well. Considering our case, we think that marked enhancement is not always necessary for extraven-

tricular neurocytomas.² Due to this imaging feature and the histologic similarity, dysembryoplastic neuroepithelial tumor should also be in the differential list of extraventricular neurocytomas.^{2,3}

References

1. Yang GF, Wu SY, Zhang LJ, et al. **Imaging findings of extraventricular neurocytoma: report of 3 cases and review of the literature.** *AJNR Am J Neuroradiol* 2009;30:581–85. Epub 2008 Oct 8
2. Aralasmak A, Karaali K, Akyuz M, et al. **MR imaging and CT perfusion findings of an extraventricular neurocytoma.** *Eur J Radiol Extra* 2008;69:e53–e56
3. Sharma MC, Deb P, Sharma S, et al. **Neurocytoma: a comprehensive review.** *Neurosurg Rev* 2006;29:270–85

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