Multidisciplinary treatment of a giant scalp nevus with intracranial extension

A 46-year-old man presented with a 4-year history of headache and visual field defect. Physical examination revealed a large patch of pigmented skin with alopecia areata measuring 10 × 12 cm in the right occipitotemporal region (figure 1A). Imaging showed a large intracranial space-occupying mass (figure 1, B–D). Pitch-black, chocolate-like substance was found during the surgery (figure 2A). The wound was repaired using split-skin graft (figure 2B). Pathologic examination confirmed the diagnosis of pigmented nevus. Giant pigmented nevus is a congenital melanocytic lesion originating from the neural crest. Intracranial spread is extremely rare and may represent a malignant transformation.

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Study funding: No targeted funding reported.

Disclosure: The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

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Figure 1 Physical examination and imaging showed a large intracranial space-occupying mass

(A) Preoperative image showing a large patch of pigmented skin with local alopecia areata in the patient. (B–D) MRI scans of the intracranial portion of the mass in the right occipitotemporal lobe.

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**Figure 2 Surgery imaging**

(A) Gross photograph of the specimen with pitch-black substances inside. (B) Wound repairing with split-skin graft.

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Zhi Gang Lan, Mao Jun Chen, Jin Li, et al.
Neurology 2016;87;2497-2498
DOI 10.1212/WNL.0000000000003412

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