Teaching NeuroImages: Morgagni-Stewart-Morel

A metabolic craniopathy

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Figure Frontal bone craniopathy

Sagittal cranial T1-weighted MRI (A), CT scan (B), and x-ray (C) of head.

A 30-year-old woman presented with a 4-year history of slowly progressive memory loss, frontal headache, vertigo, depression, and seizures (normal EEG), and earlier history of endocrine disease (diabetes mellitus, obesity, hirsutism, and hypothyroidism). Sagittal cranial T1-weighted MRI, CT scan, and x-ray showed bilateral thickening of the inner table of the frontal bone (figure).¹ Her paternal family history suggests X-linked disease. Her endocrine dysfunctions and neuropsychiatric symptoms are interpreted as components of Morgagni-Stewart-Morel syndrome and may correlate with the severity of the frontal hyperostosis and the cortical atrophy.² Attention to this clinical–radiologic correlation may help neurologists make correct diagnoses.

AUTHOR CONTRIBUTIONS

Joseph Bruno Bidin Brooks: study concept and design. Yara Dadalti Fragoso: study supervision. Daniel Fantozzi Garcia: acquisition of

data. Wilson Araújo Silva, Jr.: analysis and interpretation. Guilherme Lopes da Silveira: critical revision of the manuscript for important intellectual content. Rodrigo André Oliveira: acquisition of data.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

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

REFERENCES

1. Harding FE. Endocrinopathies associated with hyperostosis frontalis interna. *Am J Med* 1949;6:329–335.
2. Attanasio F, Granziera S, Giantin V, Manzato E. Full penetrance of Morgagni-Stewart-Morel syndrome in a 75-year-old woman: case report and review of the literature. *J Clin Endocrinol Metab* 2013;98:453–457.

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Neurology 2016;87:e161

DOI 10.1212/WNL.0000000000003178

This information is current as of October 3, 2016

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