Teaching Video *NeuroImages*: Pulsatile proptosis

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A 44-year-old man with neurofibromatosis type 1 had been aware that his right eye pulsated. His visual acuity was 20/15 in both eyes and his intraocular pressures were normal. He had 4 mm of right exophthalmos and there was pulse-synchronous pulsation of the right eye (video on the *Neurology*® Web site at www.neurology.org). No bruit was heard. Lisch nodules were present on both irides. CT showed a large osseous defect of the greater wing of the right sphenoid bone. The differential diagnosis of pulsatile proptosis includes absence of the sphenoid wing in patients with neurofibromatosis 1,¹ carotid-cavernous fistula, orbital roof fractures, and arteriovenous malformations.²

AUTHOR CONTRIBUTIONS

Thanos Papakostas: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval, acquisition of data. Simmons Lessell: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval.

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