Teaching NeuroImages: Intermittent symptomatic occlusion of the vertebral artery caused by a cervical osteophyte

A 77-year-old man presented with 2 episodes of waking up with symptoms of vertebrobasilar ischemia (figure, A and B) within 6 months. A CT angiogram showed narrowing of the right vertebral artery due to extrinsic compression by an osteophyte of the superior articular process of the fourth cervical vertebra, compromising the foramen transversarium (figure, C and D). Dynamic angiography demonstrated intermittent vascular occlusion associated with head turning (figure, E–G). After recurrence, surgical decompression of the vertebral artery was performed. Extrinsic compressions of the vertebral artery are rare.1

The most frequent signs are those of vertebrobasilar insufficiency. Surgical treatment has been proposed when conservative management fails.1

AUTHOR CONTRIBUTIONS
I. Mourand, I.L. Maldonado, and A. Bonafé: patient care, manuscript preparation, editing, and review. S. Azakri and G. Boniface: patient care and manuscript preparation.

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The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.
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Neurology 2013;80:e54
DOI 10.1212/WNL.0b013e31827f0eeb

This information is current as of January 28, 2013

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