A case of primitive trigeminal artery infarction

Within minutes following an altercation with police, a 55-year-old man noted onset of speech difficulty and right-sided weakness without headache or neck pain. Dysarthria and right hemiparesis (grade 4/5) without ocular disturbance was found. Left ventral hemipontine infarction was documented from the ipsilateral tortuous primitive trigeminal artery (figure). Cerebral angiogram failed to reveal underlying arterial dissection.

Persistent anastomosis from a cavernous portion of internal cerebral artery to rostral basilar artery is unusual, with an estimated incidence of 0.2%. Although the artery has been implicated as a conduit of a carotid artery to posterior cerebral artery distribution embolic stroke, our case illustrates that localized occlusive process may also occur.

Suichi Suzuki, MD, PhD, Gregory Youngnam Chang, MD, FAAN

From the Department of Radiology (S.S.), University of California at Irvine Medical Center, Irvine; and Department of Neurology (G.Y.C.), Barrow Neurological Institute, Phoenix, AZ.

Disclosure: The authors report no disclosures.

Address correspondence and reprint requests to Dr. Gregory Y. Chang, Barrow Neurological Institute, 500 W. Thomas Road, Suite 300, Phoenix, AZ 85013; gychang@yahoo.com

Received June 17, 2010. Accepted in final form August 30, 2010.

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Neurology 2010;75;S66
DOI 10.1212/WNL.0b013e3181fb3604

This information is current as of November 1, 2010

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