

E-Pearl of the Week

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Bilateral ACA infarcts from one vascular occlusive lesion

Bilateral ischemia or infarction can result from unilateral occlusion of a carotid artery or anterior cerebral artery (ACA) in patients with anomalous cerebral vasculature, wherein one ACA supplies both frontal lobes with a hypoplastic contralateral ACA. An aplastic A1 segment was found in 0.3% to 2.0% of individuals in one study. The typical presentation is acute bilateral lower limb weakness with or without aphasia of acute onset. Patients may also present with incontinence and akinetic mutism.

Reference

Maurer J, Maurer E, Perneczky A. Surgically verified variations in the A1 segment of the anterior cerebral artery. *J Neurosurg* 1991;75:950-953.