Alien hand phenomenon in right anterior cerebral artery infarct

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Figure Magnetic resonance angiography

Right anterior cerebral artery infarct and attenuated right internal carotid and anterior cerebral artery. (A–C) Axial diffusion-weighted MRI reveals hyperintensity involving genu, body, and splenium of right side of corpus callosum. (D) Postprocessed time-of-flight magnetic resonance angiography image shows narrowing of cavernosal segment of right internal carotid artery (arrow) and markedly attenuated right anterior cerebral artery (arrowhead).

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A 65-year-old man had acute left leg weakness 2 months prior to presentation. One week later, he developed involuntary groping of objects with his left hand. His left hand initiated involuntarily movements to oppose voluntary actions of his right hand. Examination revealed visual/tactile groping of objects and self-opposing behavior of his left hand while the patient complained that his left hand behaved mischievously (video at neurology.org/cp). His left hand showed ideomotor apraxia, agraphesthesia, astereognosis, and sensory extinction without motor weakness and with normal primary sensations. MRI brain revealed acute infarct in right corpus callosum and cingulate gyrus. Magnetic resonance angiography showed nonvisualized right anterior cerebral artery (figure).

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DISCLOSURES

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

Video

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