Vessel wall MRI of an inflamed aneurysm with atherosclerosis in a patient with ischemic stroke

A 69-year-old woman presented with right leg weakness and ataxia. CT angiogram revealed a 6-mm left middle cerebral artery (MCA) aneurysm. Intracranial vessel wall MRI (IVWM) (figure) showed ischemic strokes in the left MCA region, inflammatory changes in the aneurysmal wall, and adjacent atherosclerosis. IVWM is a high-resolution black-blood MRI technique that allows visualization of the arterial vessel wall. Postcontrast enhancement of unruptured aneurysms is associated with instability, and atherosclerotic plaque enhancement is associated with ischemic stroke. This report of a patient with ischemic stroke shows the association of a symptomatic inflamed aneurysm with atherosclerotic plaque on IVWM.

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Author contributions: Adam de Havenon: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval. Min Park: drafting/revising the manuscript, accepts responsibility for conduct of research and final approval. Scott McNally: 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.

Study funding: No targeted funding reported.

Disclosure: The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

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Neurology 2016;87;741-742
DOI 10.1212/WNL.0000000000002990

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