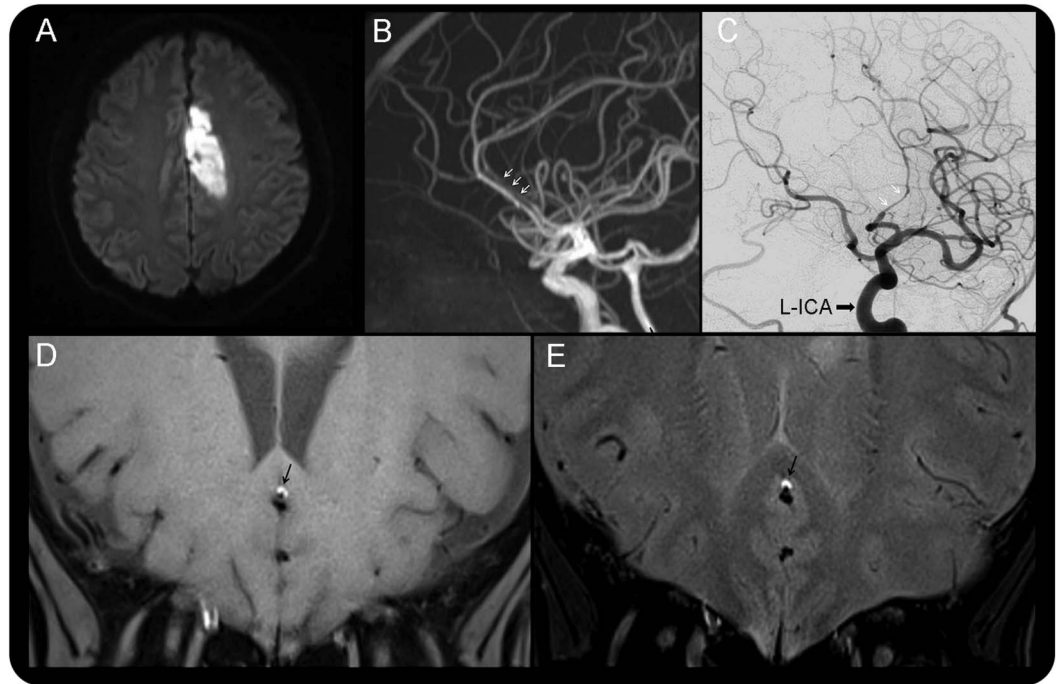


Anterior cerebral artery dissection diagnosed using high-resolution MRI

Figure Angiographic and high-resolution MRI of anterior cerebral artery dissection



Diffusion-weighted imaging (A) shows left anterior cerebral artery infarcts. Magnetic resonance (B) and percutaneous (C) angiographies show a long stenosis (white arrows) of left A2 segment. High-resolution MRI (fat suppression) of A2 segment (D, E) reveals the high signals (black arrow) of intramural hematoma indicating the diagnosis of dissection.

A 51-year-old man was admitted due to weakness (3/5) of the right lower extremity. Brain MRI revealed acute infarcts in the left anterior cerebral artery (ACA) territory (figure, A). Angiographic images demonstrated a stenotic lesion in the left A2 segment (figure, B and C), which high-resolution MRI revealed as a dissection (figure, D and E). Although extensive assessments were conducted, underlying arteriopathy was not found. Arterial dissection is a frequent cause of ACA infarcts (43%),¹ and its diagnosis depends on angiographic examinations. Our case showed that high-resolution MRI might be a useful tool for diagnosis of ACA dissections that present without typical angiographic features.

Hongbing Chen, MD, Zhuhao Li, MSc, Boning Luo, MD, Jinsheng Zeng, MD

From the Departments of Neurology and Stroke Center (H.C., J.Z.) and Radiology (Z.L., B.L.), The First Affiliated Hospital, Sun Yat-Sen University, Guangzhou, China.

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Correspondence to Dr. Zeng: zengj@pub.guangzhou.gd.cn

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