

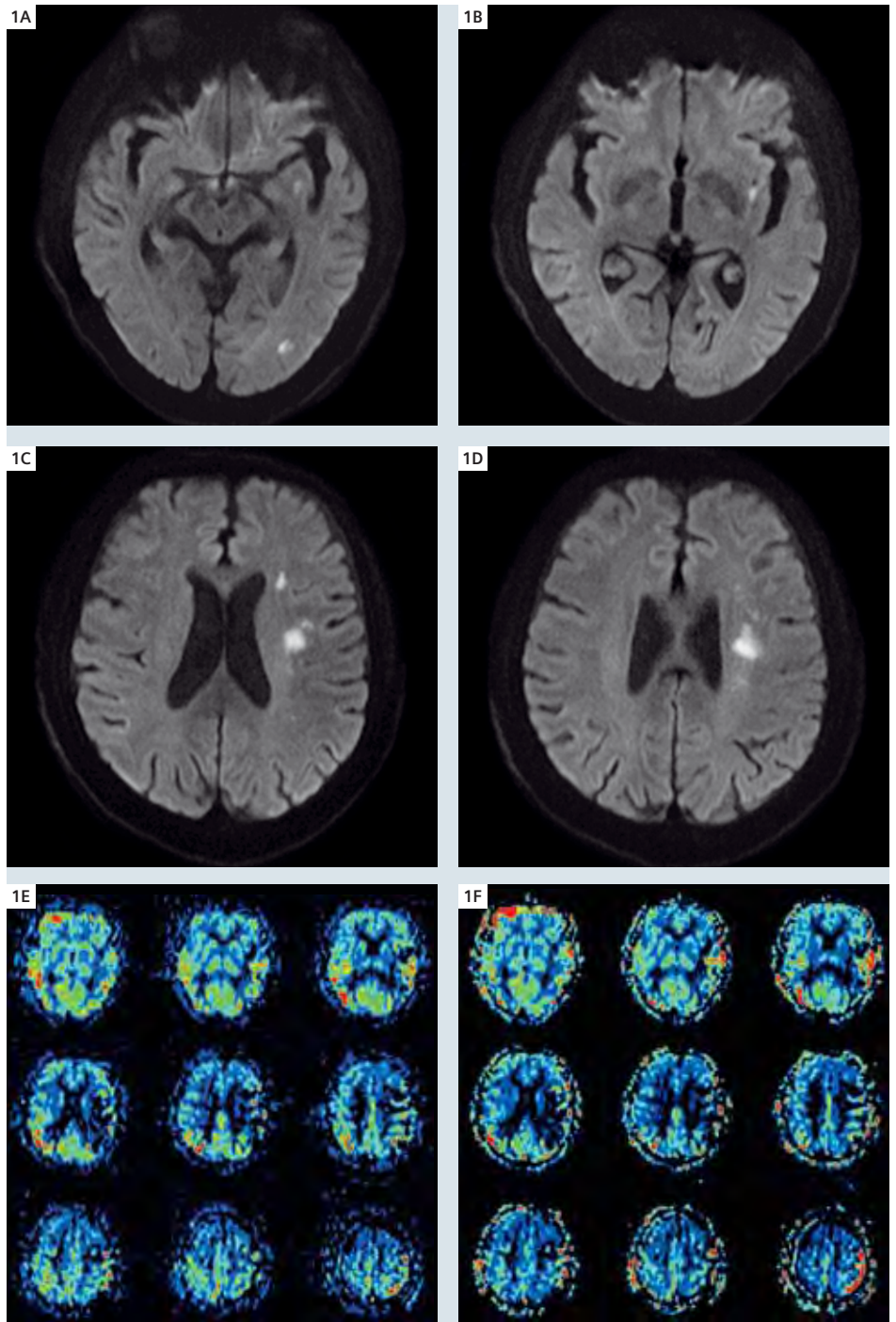
Arterial Spin Labeling (*syngo* ASL) Case Reports from Xijing Hospital

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Case 1

A 74-year-old woman presented with a history of aphasia for the last nine hours. Diffusion-weighted imaging (DWI) showed that there were acute cerebral infarctions in the left occipital, external capsule, adjacent to the lateral ventricle and centrum semiovale. Arterial Spin Labeling (ASL) showed a much larger region of potential ischemia. This perfusion/diffusion mismatch showed an indication for acute thrombolytic therapy.



Case 2

A 42-year-old man complained for paroxysmal speech disorder and right hand disturbance since 3 days, the clinical diagnosis was transit ischemic attack (TIA). Conventional MR imaging and diffusion-weighted imaging (DWI) showed no

obvious ischemic lesions. MR angiography (MRA) showed stenosis of the left middle cerebral artery. Arterial Spin Labeling (ASL) showed obvious hypoperfusion and hyperperfusion in the left temporal lobe.

