A 74-year-old man presented with right watershed infarction (initial gadolinium-injected MRI, Figure). Renal function was normal. MRI 4 hours later showed ipsilateral perivascular spaces (PVS) and subarachnoid fluid-attenuated inversion recovery (FLAIR) hyperintensities,
probably related to stroke-associated delayed gadolinium leakage (Figure). MRI after 10 days showed complete resolution of subarachnoid/perivascular abnormalities (Figure).

Stroke-related subarachnoid and ocular gadolinium leakage on FLAIR probably represents blood–brain/ocular barrier disruption. An earlier report described PVS gadolinium leakage on MRI performed >1 month after stroke. The glymphatic system (playing a role in CSF–interstitial fluid interchange) may be involved in stroke-related blood–brain barrier leakage observed in the subarachnoid space and PVS.

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The authors do not have any financial or other contributions to disclose. Go to Neurology.org/N for full disclosures.

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References
Supplemental data (eReference 1) is available at: links.lww.com/WNL/B332

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Perivascular and Subarachnoid Fluid-Attenuated Inversion Recovery Hyperintensities Related to Delayed Gadolinium Leakage After Stroke

Larisa Nistorec, Dimitri Renard and Teodora Parvu

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