H/O Migraines with Aura & Cognitive Impairment

Syed Daniyal Asad, MD
Nerea Lopetegui-Lia, MD
Leo Wolansky, MD

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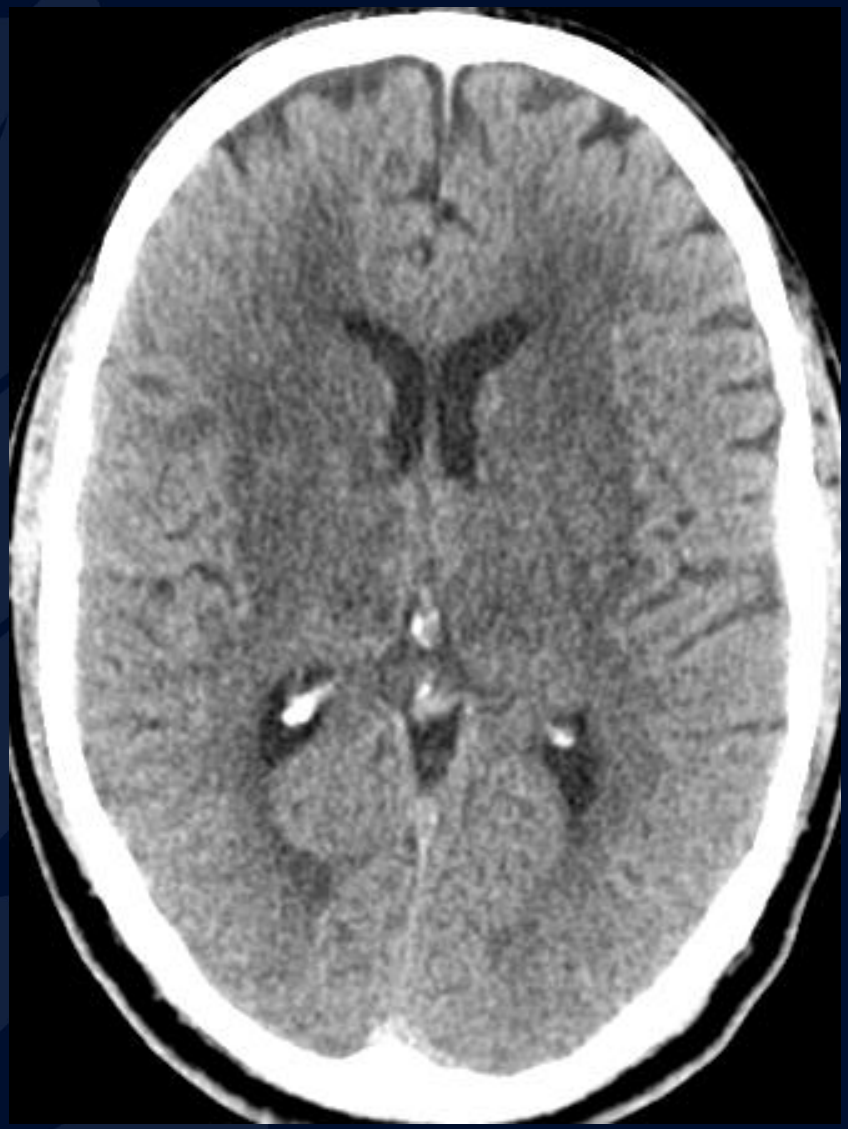

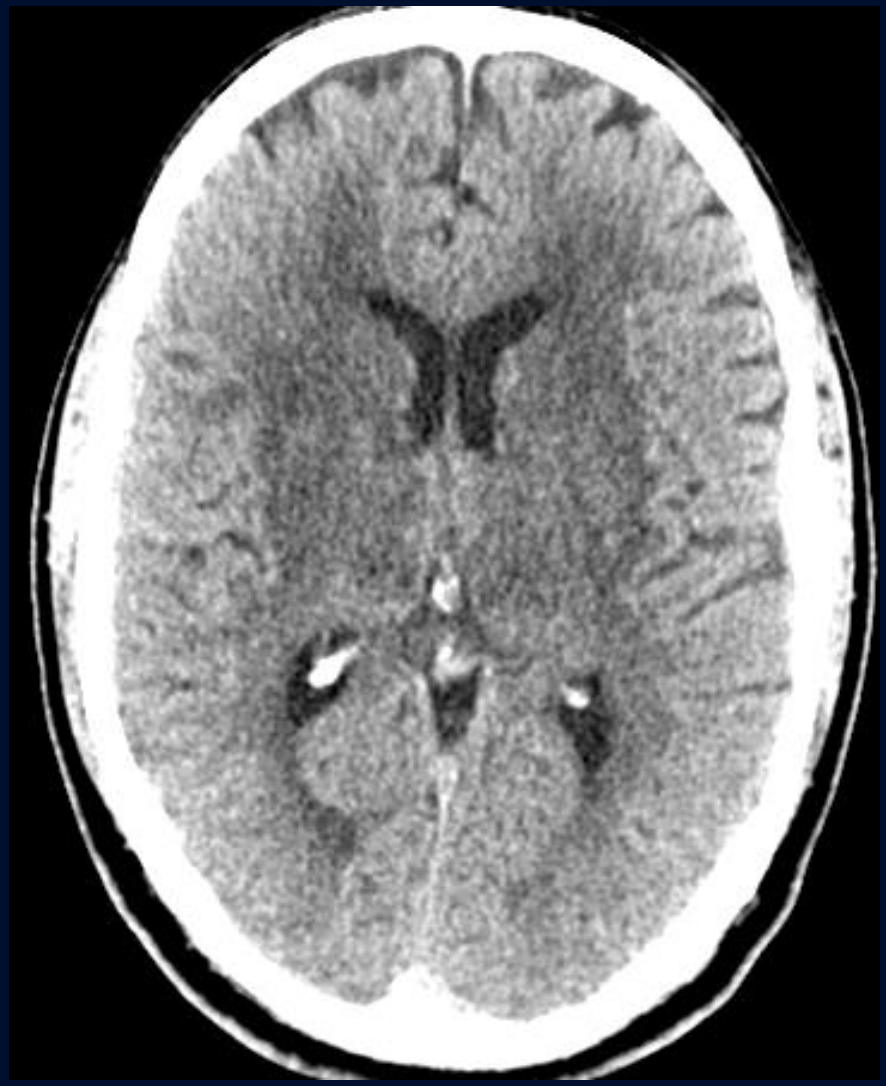

C- CT

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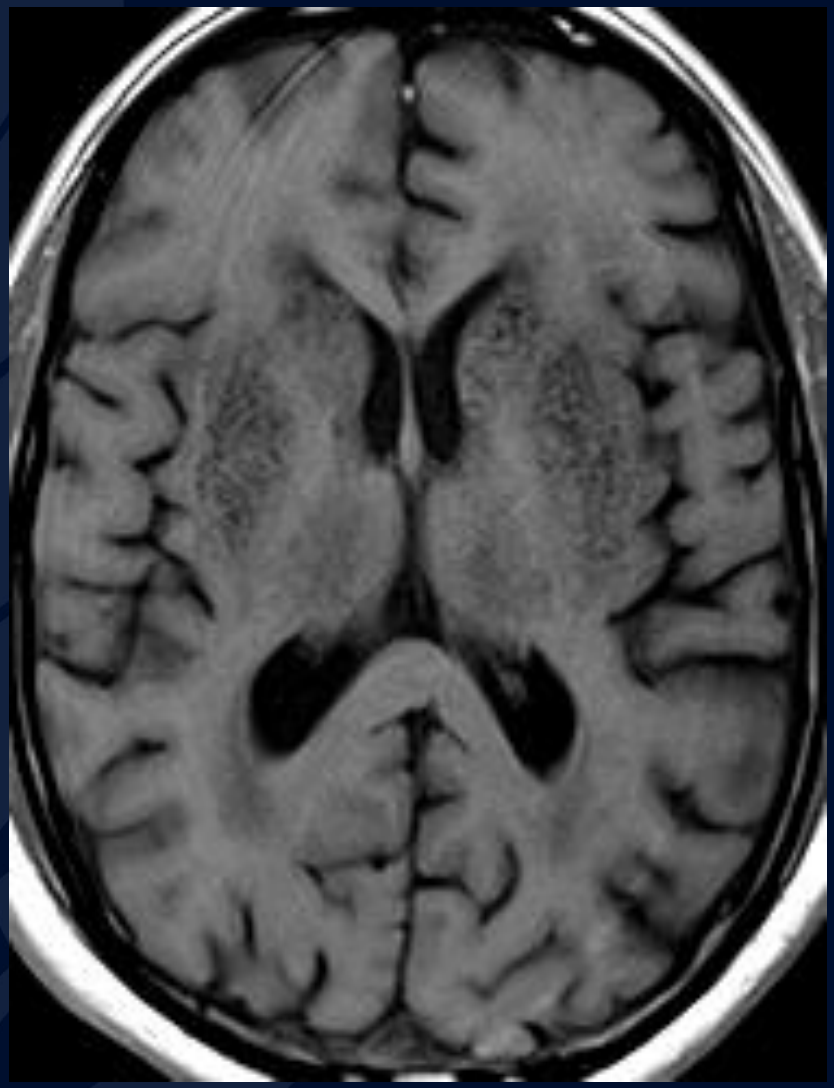
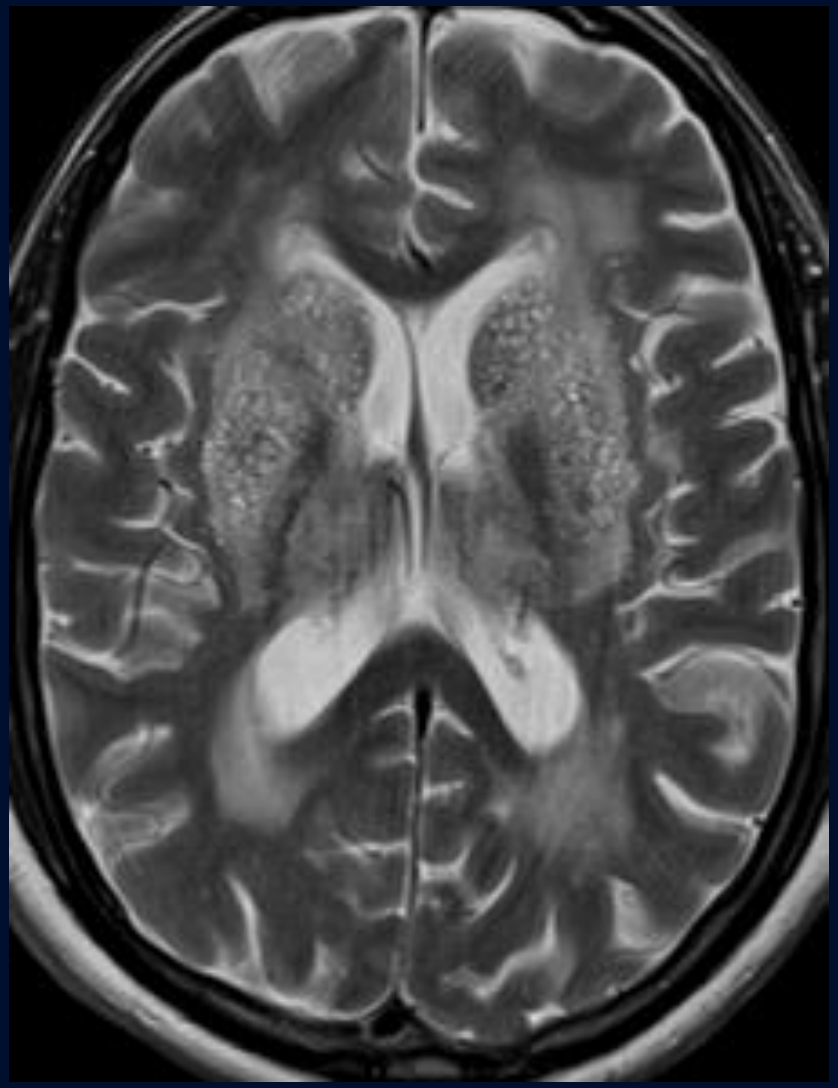


T1



T2

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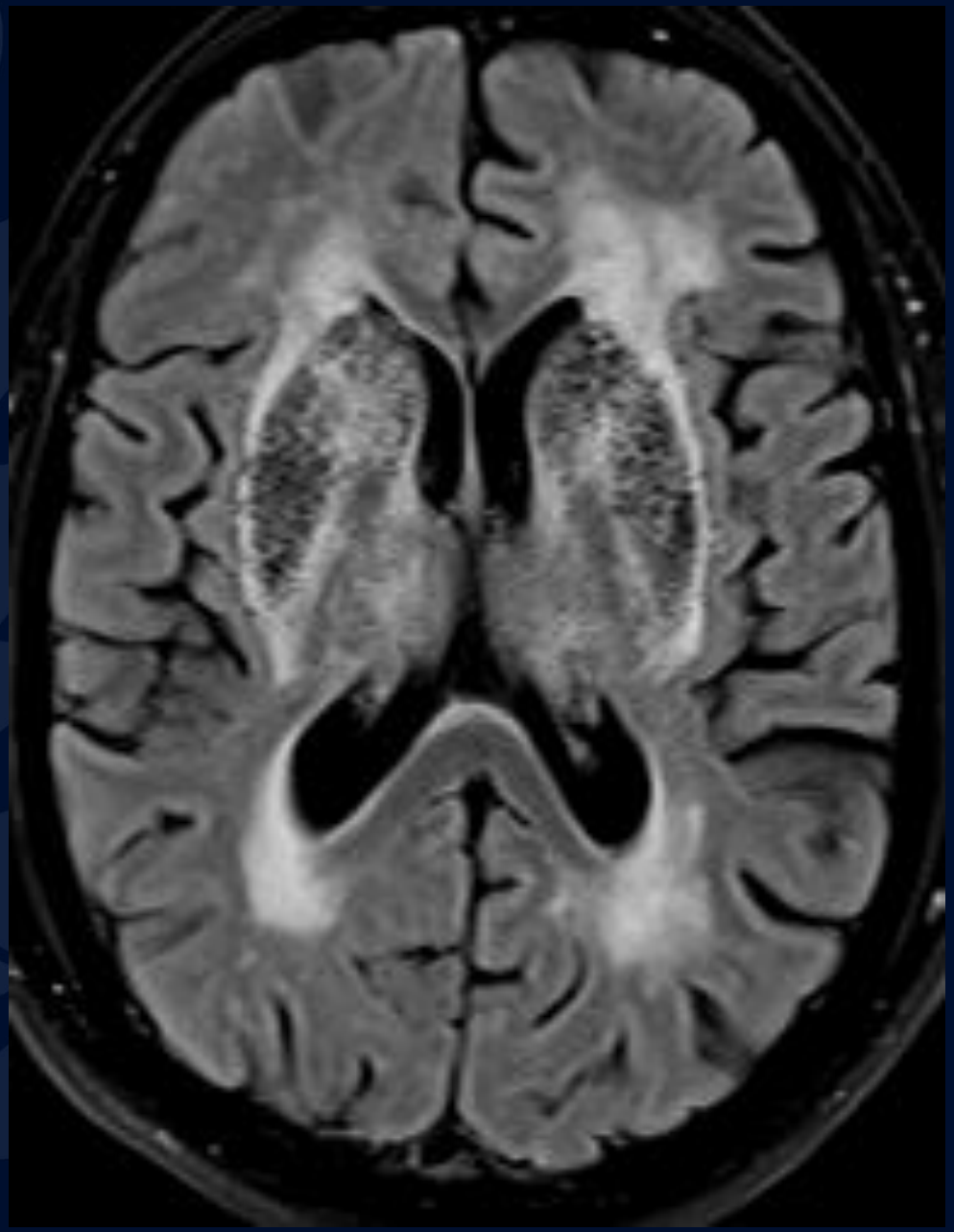

T2 FLAIR

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Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL)

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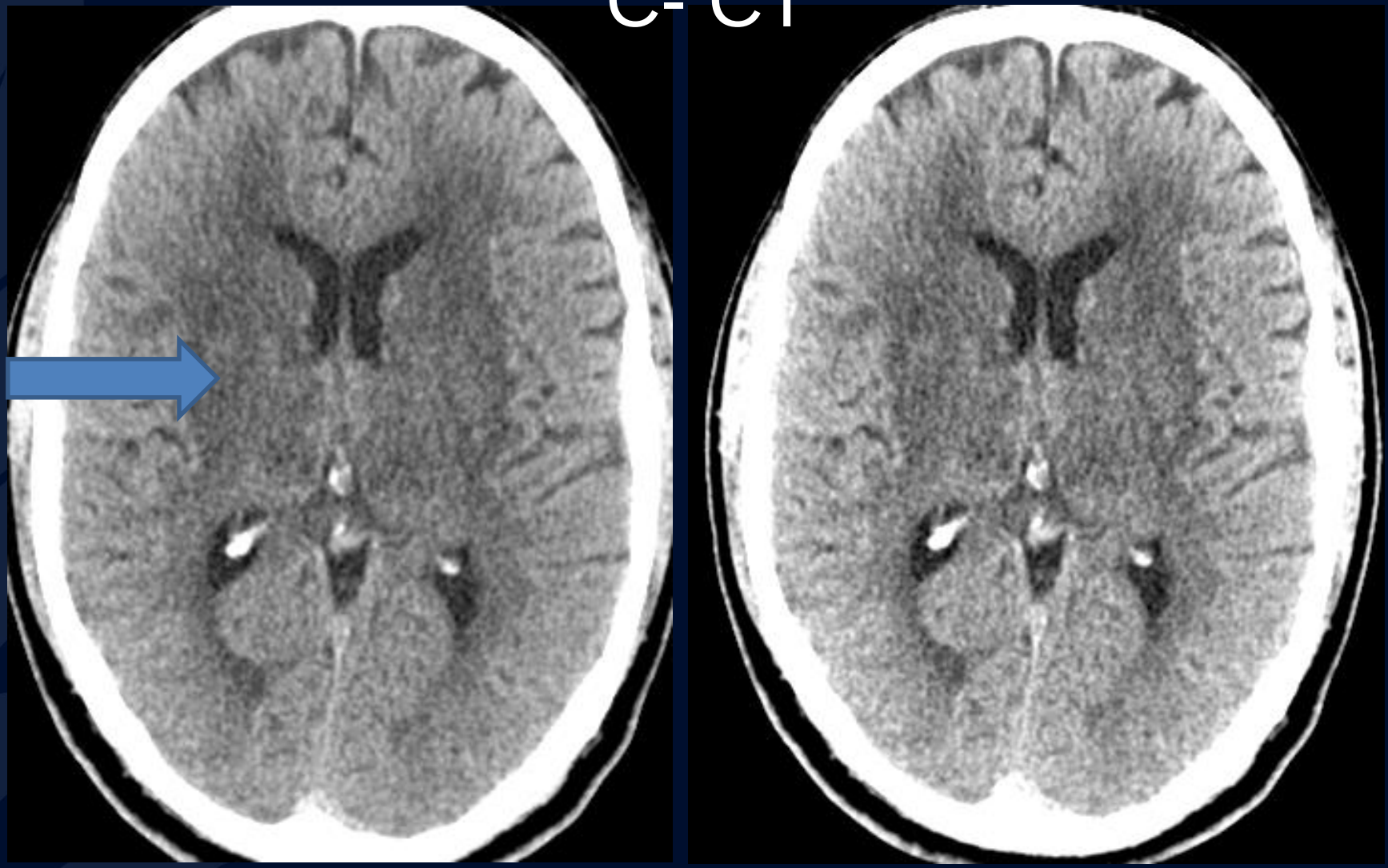
C- CT



Diffuse hypodensity (arrow)

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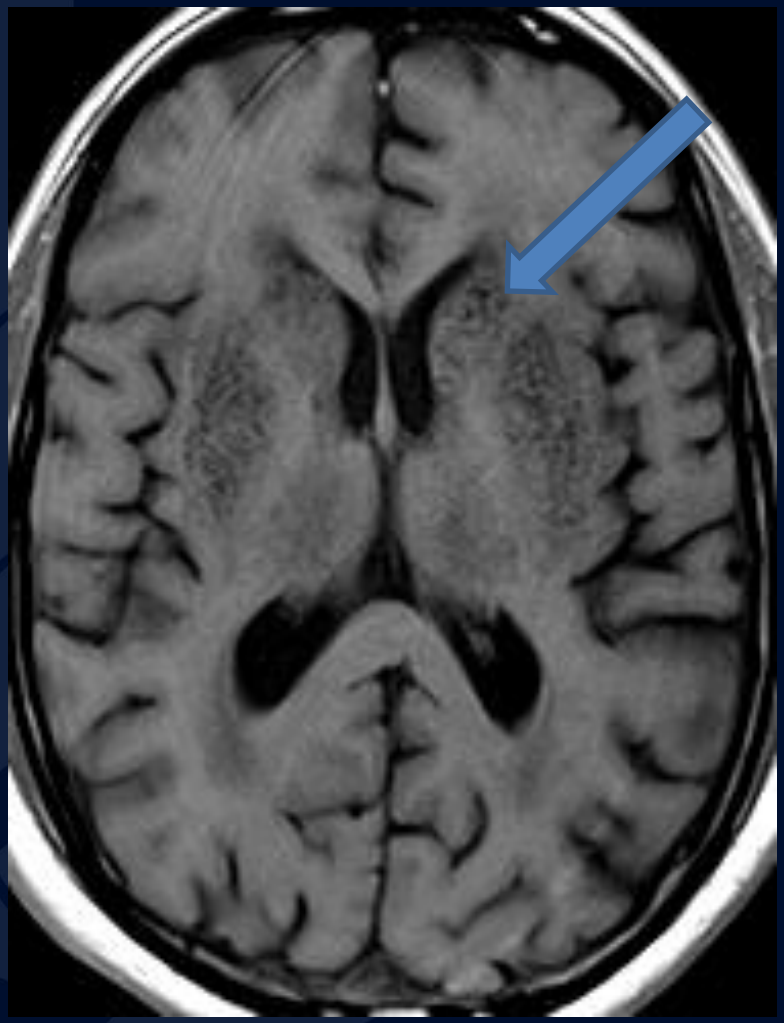
T1



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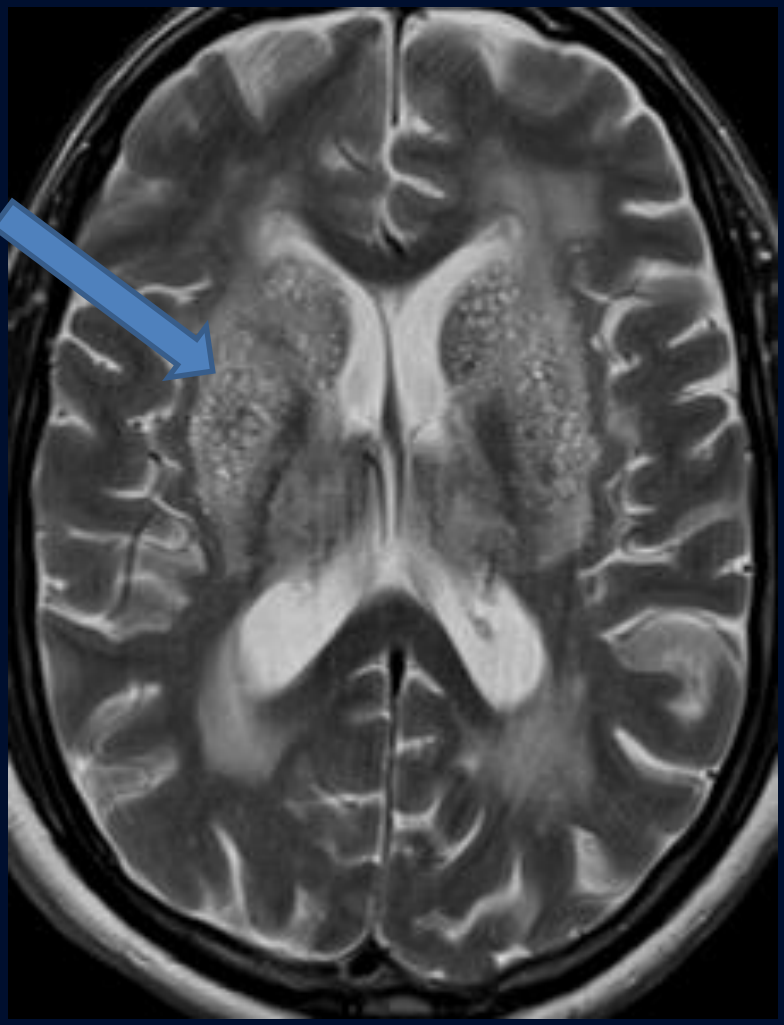

Increased soft tissue contrast of MRI demonstrates the countless dilated perivascular spaces: “état criblé” (blue arrows) with intermixed chronic lacunar infarcts

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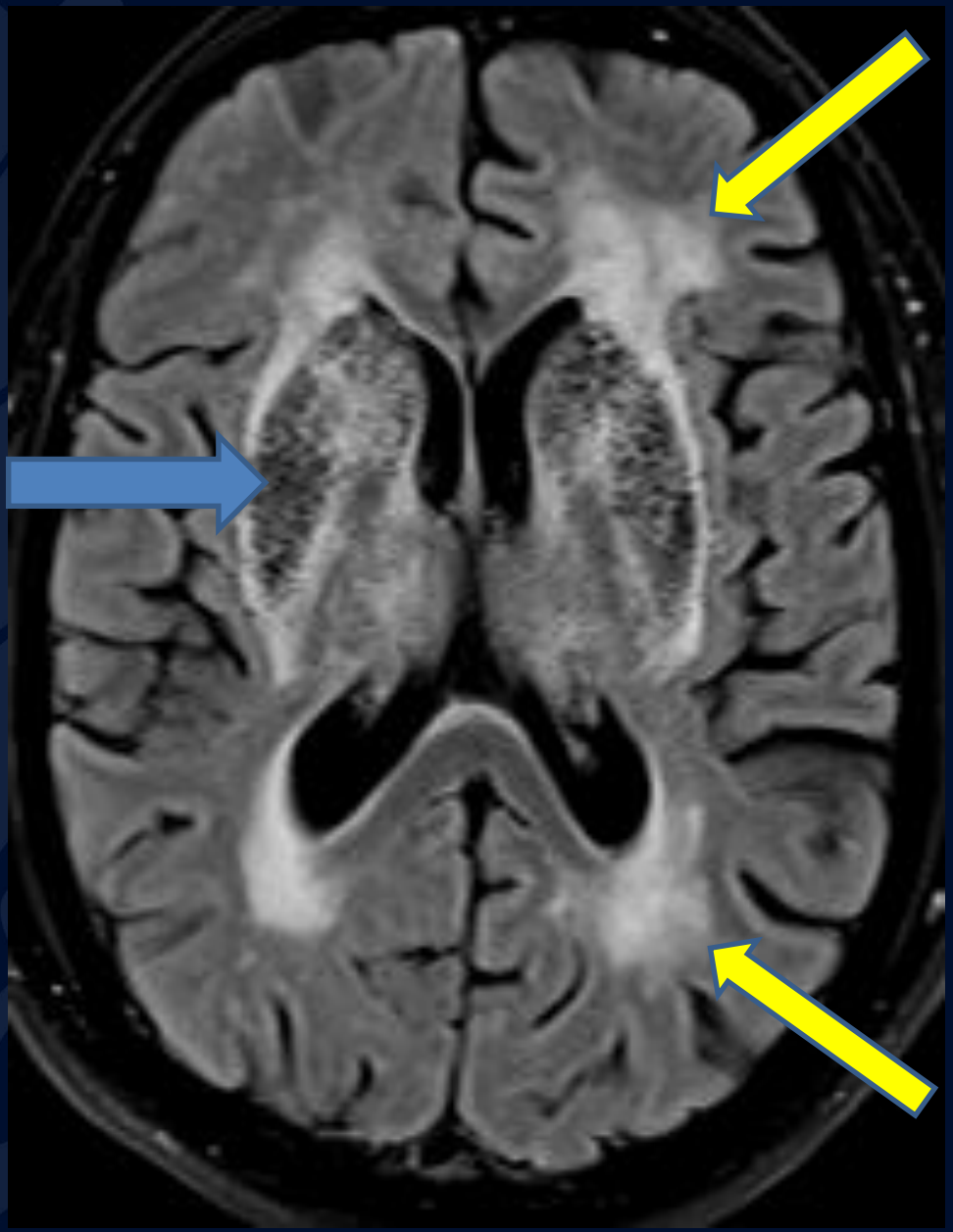

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White matter lesions (yellow arrows)
Dilated perivascular spaces cause “état criblé” (blue arrow)

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CADASIL

- Most common form of hereditary stroke disorder
- Caused by mutations of the Notch 3 gene on Chromosome 19
- TIA & Infarcts, manifestation #1
- Cognitive dysfunction, manifestation #2
- Migraine with aura in 20-40%

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MRI

- Confluent white matter changes, and more circumscribed lesions in basal ganglia are common.
- Perivascular spaces become more prominent
- DDx: multiple early age infarcts from a hypercoagulable state, MELAS, subcortical arteriosclerotic encephalopathy (SAE), Susac syndrome, CNS vasculitis, COL4A1 brain small-vessel disease

References

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