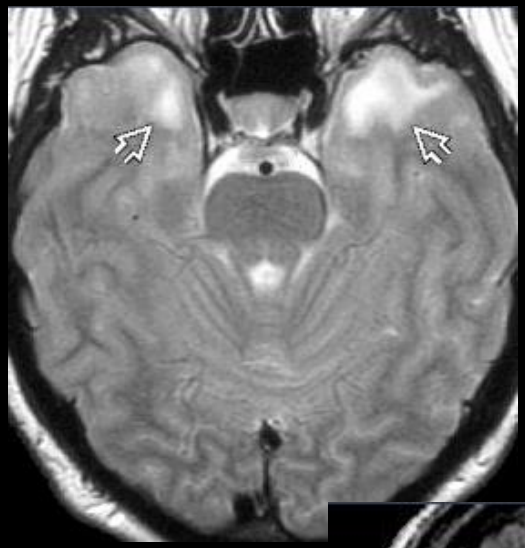
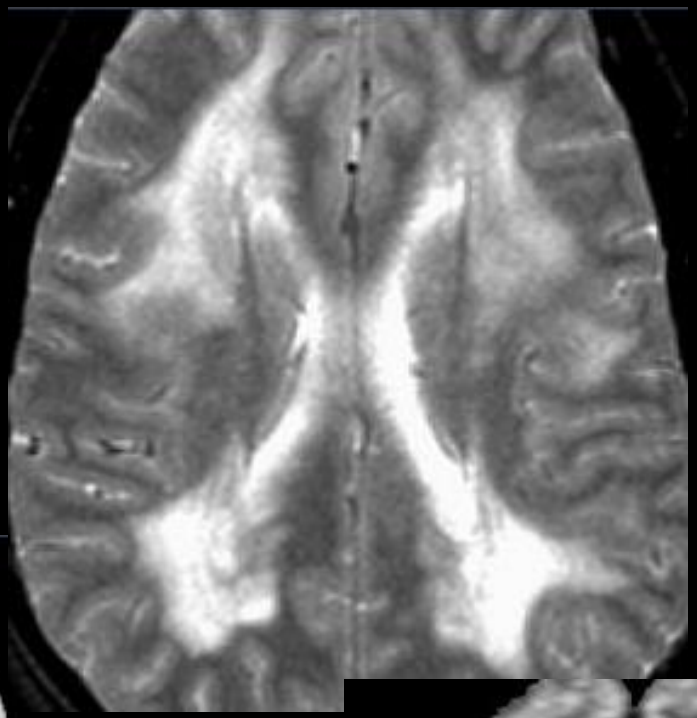
CADASIL

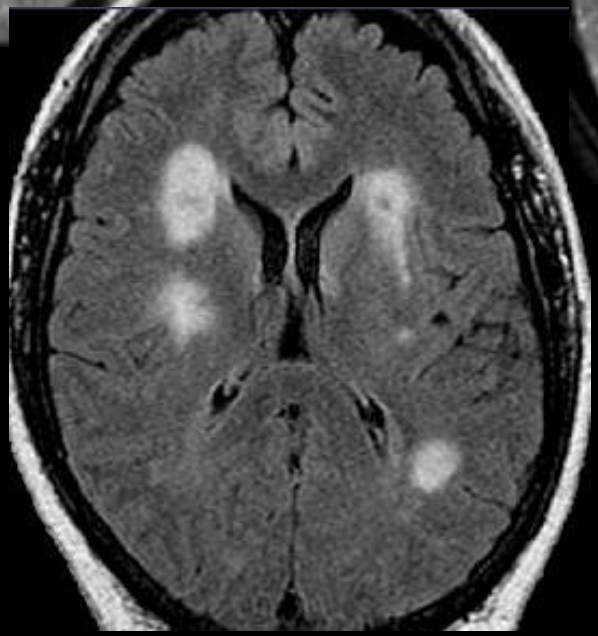
- **C**erebral **a**utosomal **d**ominant **a**rteriopathy with **s**ubcortical **i**nfarcts and leukoencephalopathy
- Hereditary small-vessel disease due to mutations in Notch3 gene on chromosome 19, which causes stroke in young adults.
- Characteristic subcortical lacunar infarcts and leukoencephalopathy in young adults.

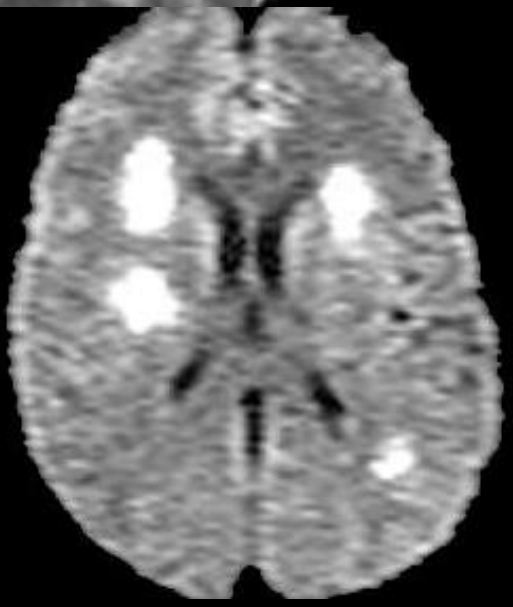
CADASIL

- Best diagnostic clue:
  - Characteristic subcortical lacunar infarcts and leukoencephalopathy in young adults
  - Anterior temporal pole and external capsule lesions have higher sensitivity and specificity for CADASIL
  - Digital subtraction angiogram is normal in CADASIL.









Top Differential Diagnoses

- Sporadic subcortical arteriosclerotic encephalopathy (sSAE)
- Mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes (MELAS)
- Primary angiitis of the CNS
- Hypercoagulable states