# 與大師對談

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- 模擬臨床情境,學習大師之影像判讀及鑑別診斷邏輯。
- 了解大師對影像品質之建議。

CASE 1
67Y MAN
CADASIL OR CAA?

### Brief history

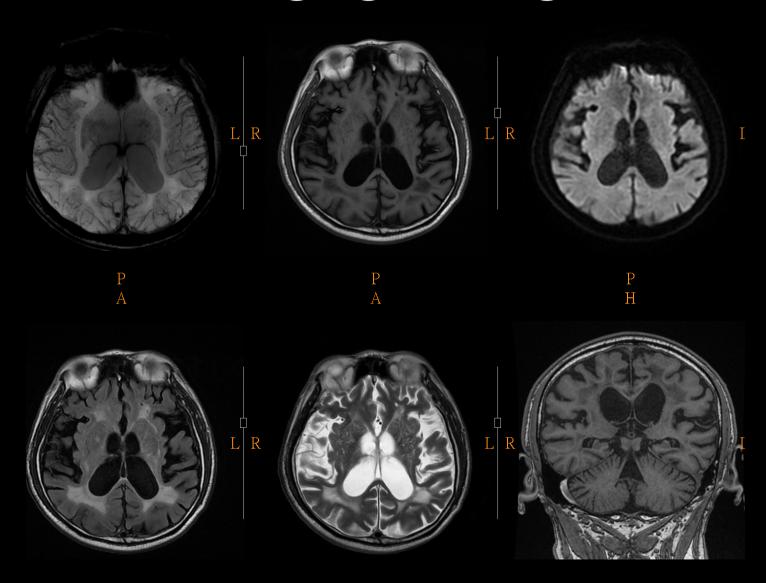
- 67 years old man.
- Chief complain:
  - Alexia, memory impairment, mood disturbance and gait disturbance gradually developed in recent 10 years.
  - 看報紙讀不進去,八卦新聞圖片多比較好
  - 家人說會把兩個女兒搞混,吃什麼記不得,會忘東忘西,易怒
  - 走路易跌倒
  - 字愈寫愈小,姓名寫不出來

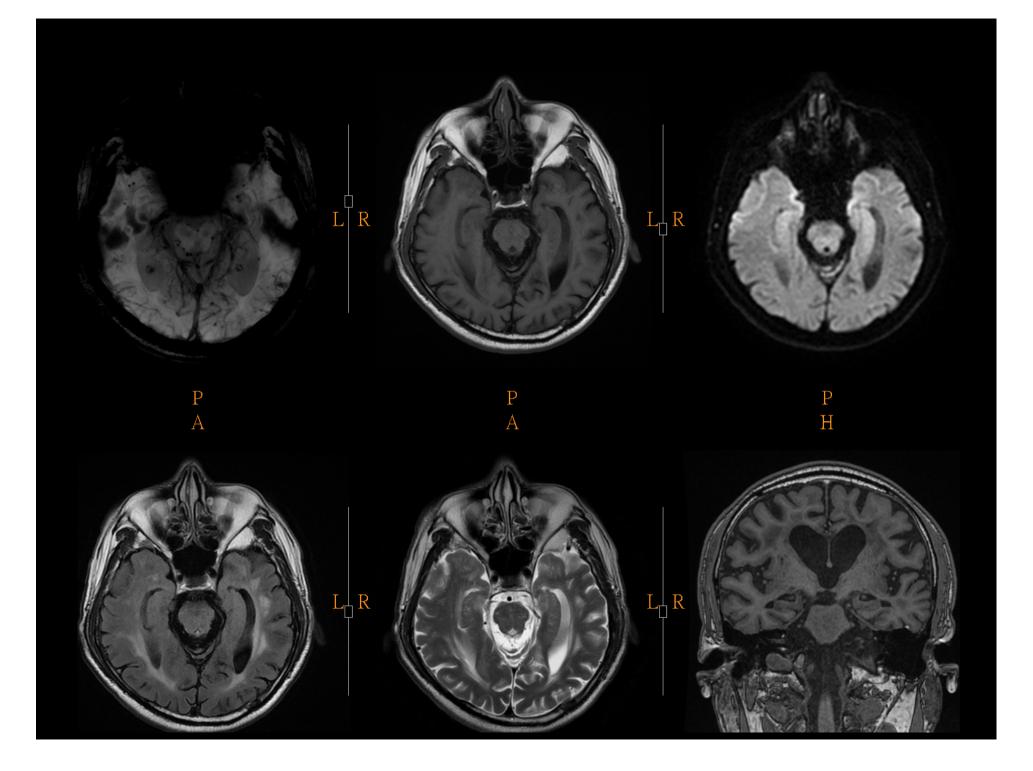
### **Imaging**

....under regular follow up since 4 years ago, remain stationary

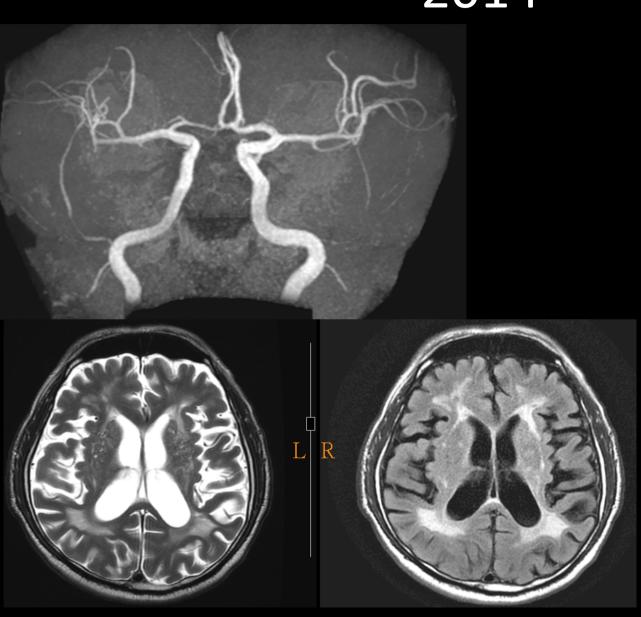
• 2017-01 Brain MRI No C

## Imaging findings





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#### Differential Dignosis

- CADASIL
- Cerebral amyloid angiopathy
- HTN microangiopathy

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- No stroke like episode before
- No family history of stroke
- No HTN, no DM.
- Genetic test negative (NOTCH3 mutation negative)

#### **CADASIL**

- Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephaopathy.
- Hereditary small-vessel disease due to mutations in NOTCH3 gene on chromosome 19
- Clinical prsentation:
  - TIA/stroke or migraine with aura
  - Average onset of stroke: 50 years old (young)
- Imaging findings:
  - Bilateral diffuse white matter hyperintensities
  - Multiple lacunar infarcts
  - Specific subcortical lacunar infarction, location: Anterior temporal pole, external capsule and paramedian superior frontal lobe.
  - Microhemorrhages in 25-50% of patients

### Cerebral amyloid angiopathy

#### Clinical issue:

- CAA common in demented elderly patients.
- Acute presentation: hemorrhagic stroke
- Chronic pressentation: dementia
- Age: older when sporadic (> 60 years old)

#### Imaging findings:

- Multifocal cortical/subcortical "black dots" on T2\* or SWI MR
- May accompany with Lobar hemorrhage(s) of different ages
- Location: Less common in brainstem, deep gray nuclei, cerebellum, hippocampus