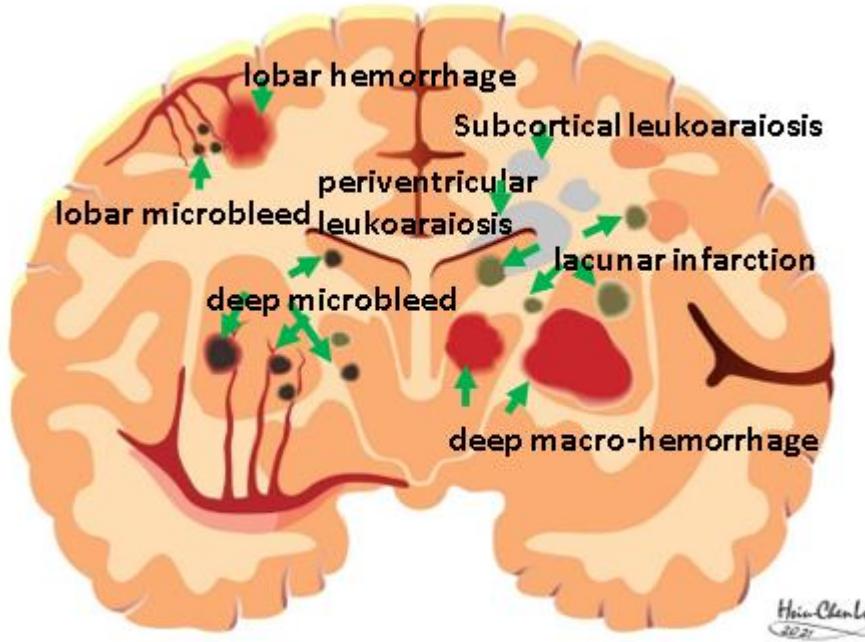
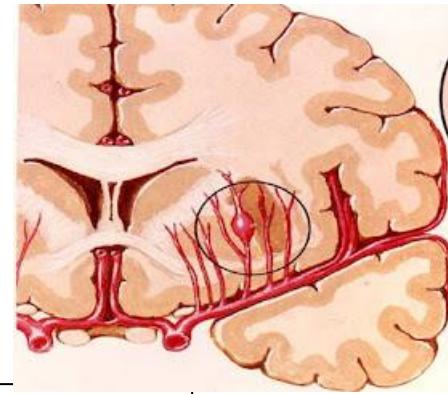


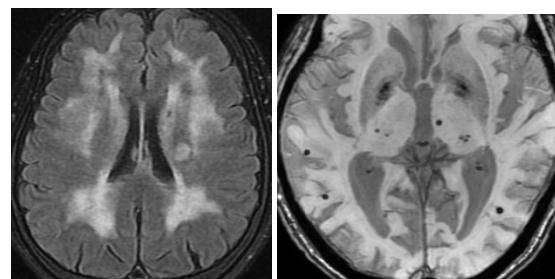
Chronic hypertension, aging, gene:

Deep perforating arteries: hyaline arteriolosclerosis more vulnerable to rupture, or development of minute aneurysms, termed **Charcot-Bouchard microaneurysms**, which may be the site of rupture.

Superficial perforating arteries (medullary artery) -----amyloid angiopathy



(慢性高血壓引起small vessel degenerative change (small vessel disease, svd))
除了會引起ICH，也會：
Lacunar infarction
Microbleed
White matter changes (leukoaraiosis), subcortical / periventricular
Virchow-Robin space widening
----- **imaging markers of svd**



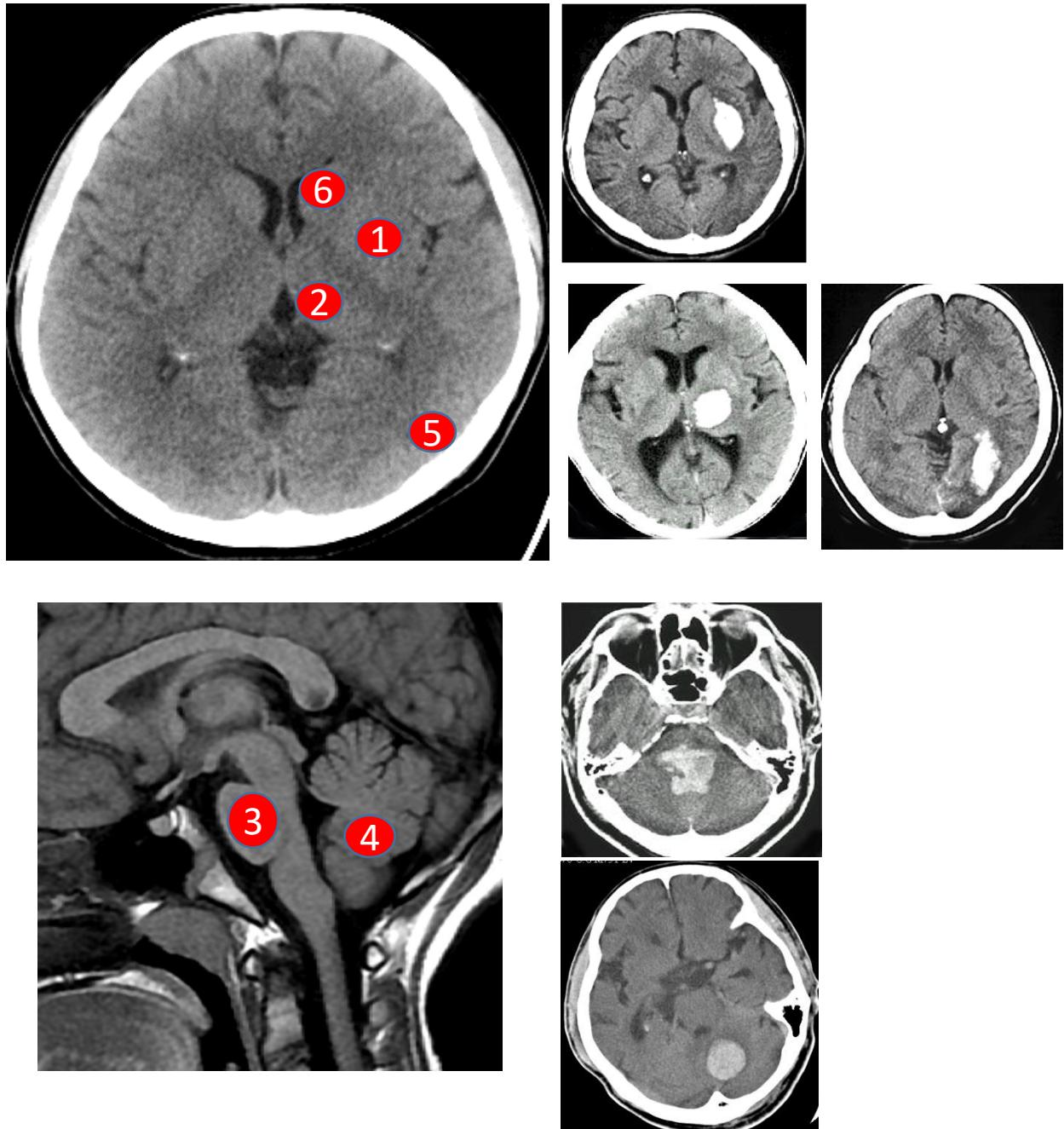
ICH symptomatic
 $\frac{1}{4}$ lacunar infarction, symptomatic
 $\frac{3}{4}$ lacunar infarction, asymptomatic
 Leukoaraiosis, microbleed, Virchow-Robin spaces widening are asymptomatic.

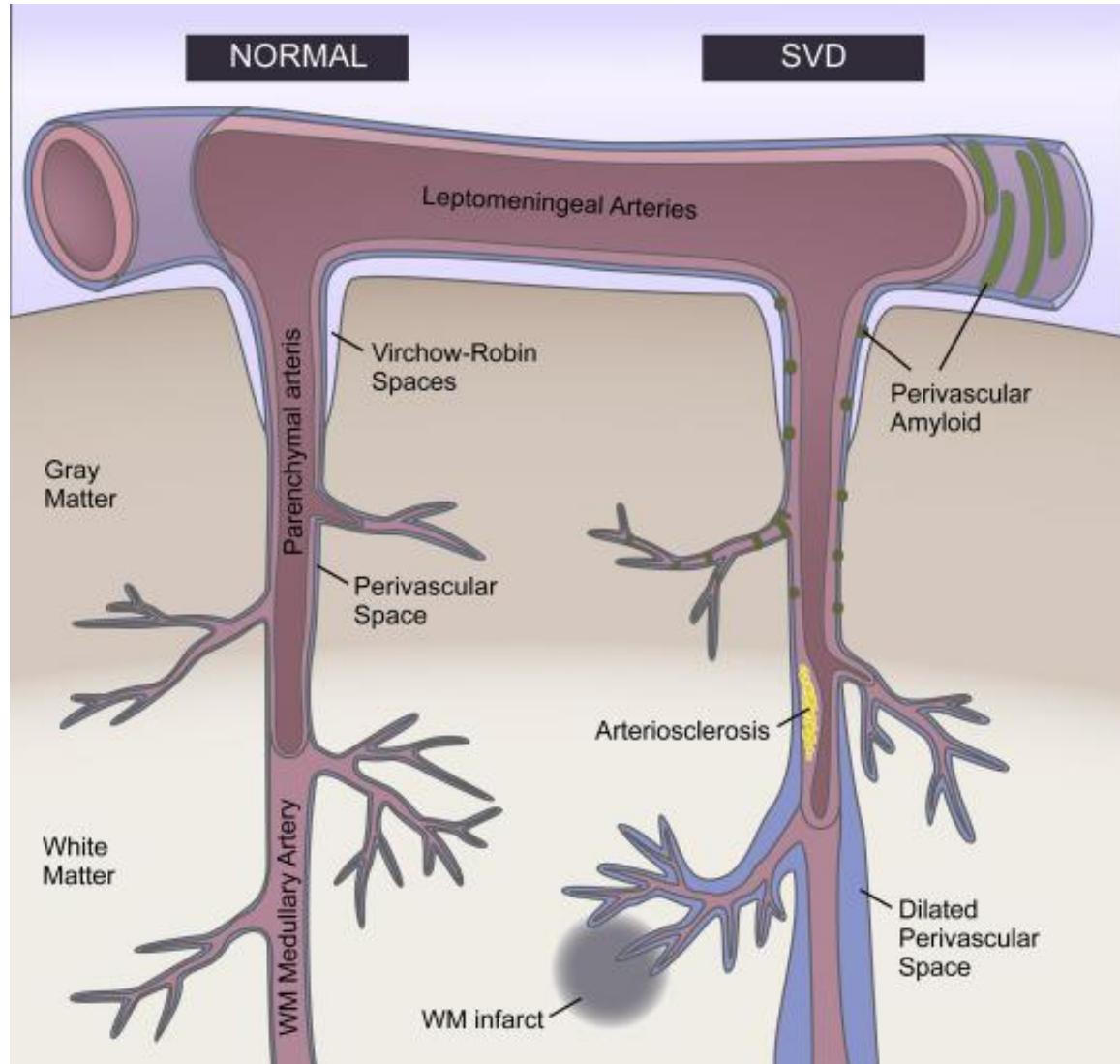
1. Hypertensive ICH

Location of hypertensive ICH

- Basal ganglion:
 - putamen
 - caudate nucleus
- Thalamus
- Brainstem
- Subcortical white matter of cerebrum and cerebellum

發生率順序：1. putamen → 2. thalamus →
3. brainstem(pons) → 4. cerebellum → 5. subcortex of cerebrum → 6. caudate nucleus → brainstem(midbrain)
→ brainstem(medulla oblongata)

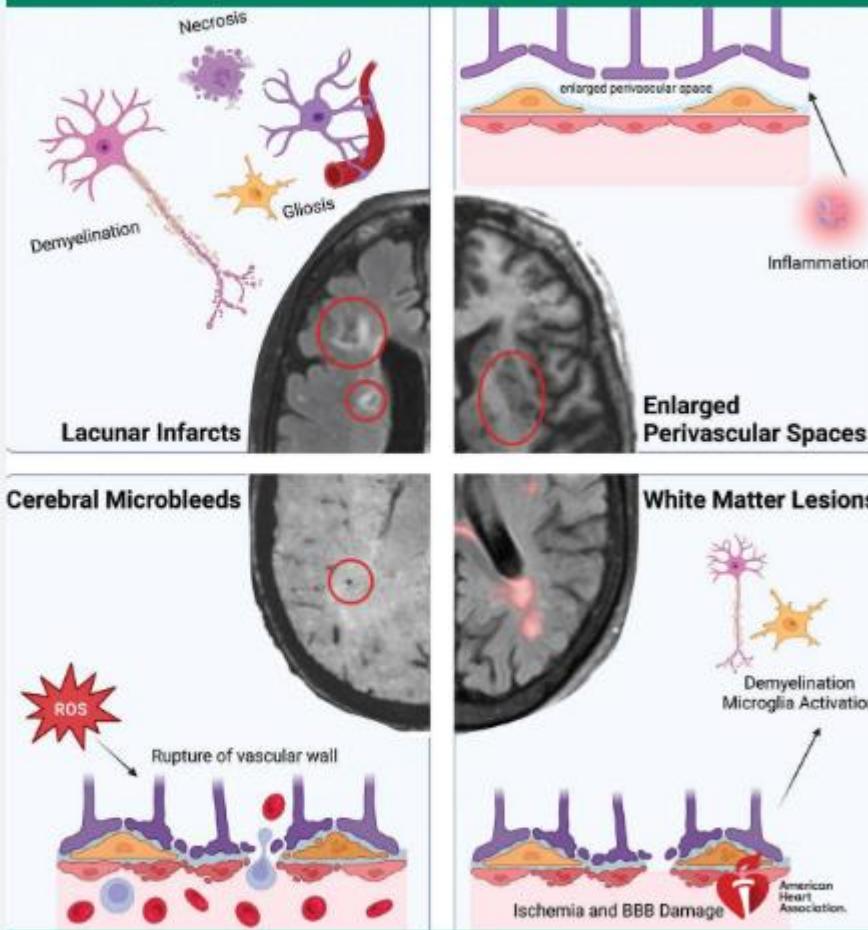




<https://www.sciencedirect.com/topics/pharmacology-toxicology-and-pharmaceutical-science/arteriolosclerosis>



Hypertension



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