

Neurosurgical
and Vascular
Surgical anatomy

Outline

- 0 Sectional imaging of the brain
 - 0 Anatomy
 - 0 Detecting pathology
- 0 Common vascular surgery operations

Neurosurgical anatomy

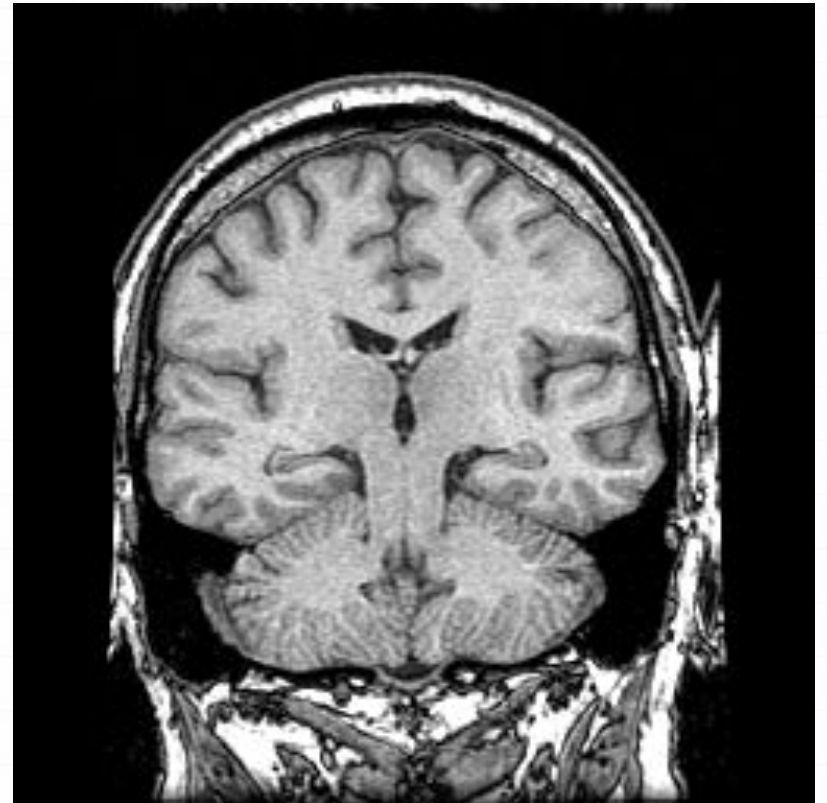
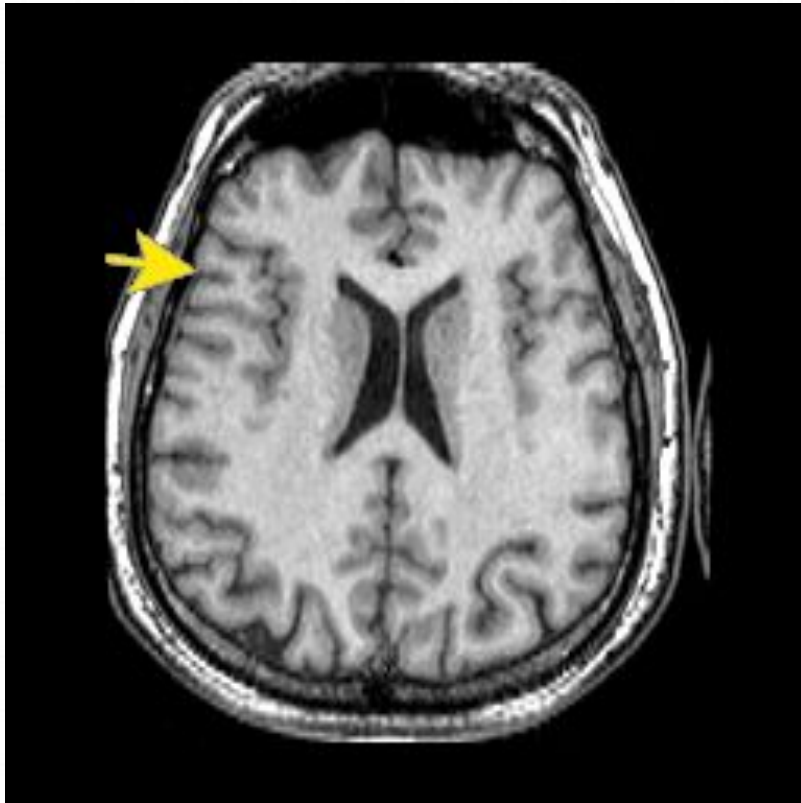
Sectional anatomy :Brain

- 0 Cerebrum
- 0 Cerebellum
- 0 Brainstem

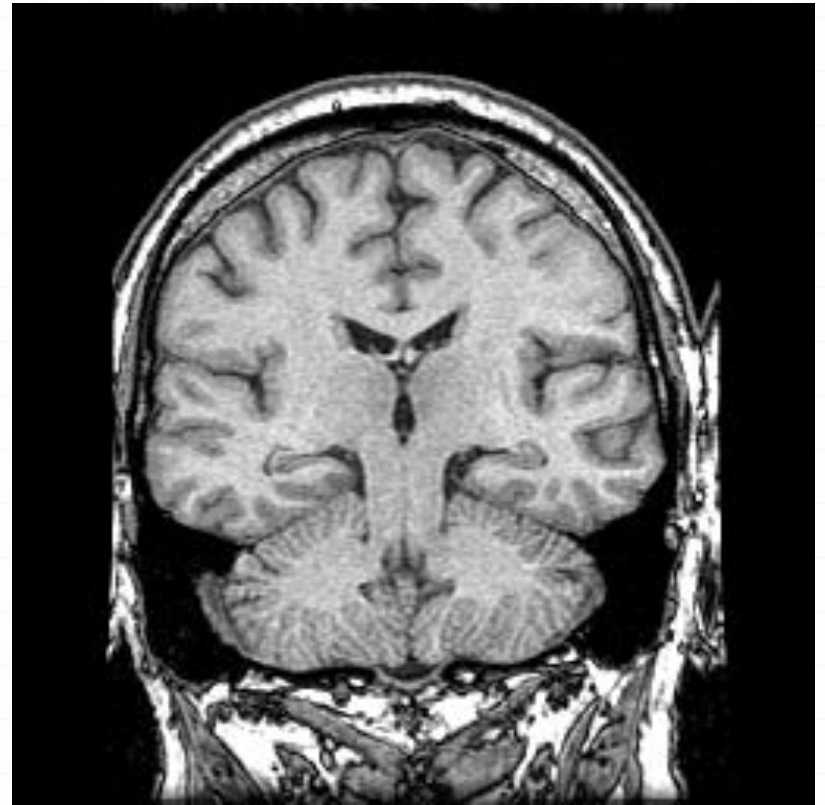
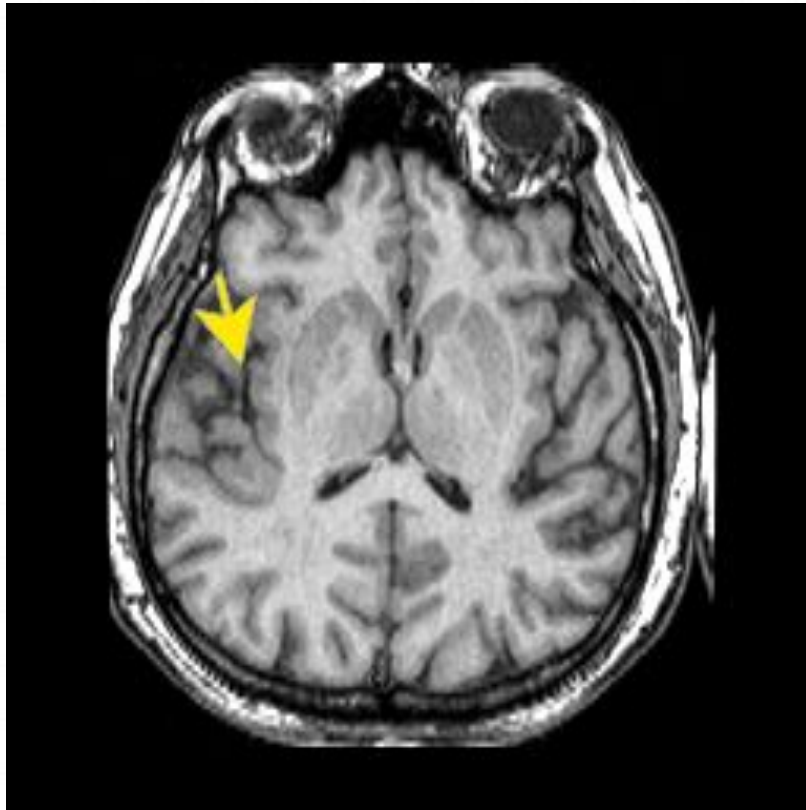
Cerebrum

- 0 4 layers
 - 0 Ventricles
 - 0 Deep nuclei
 - 0 White matter
 - 0 Cortex

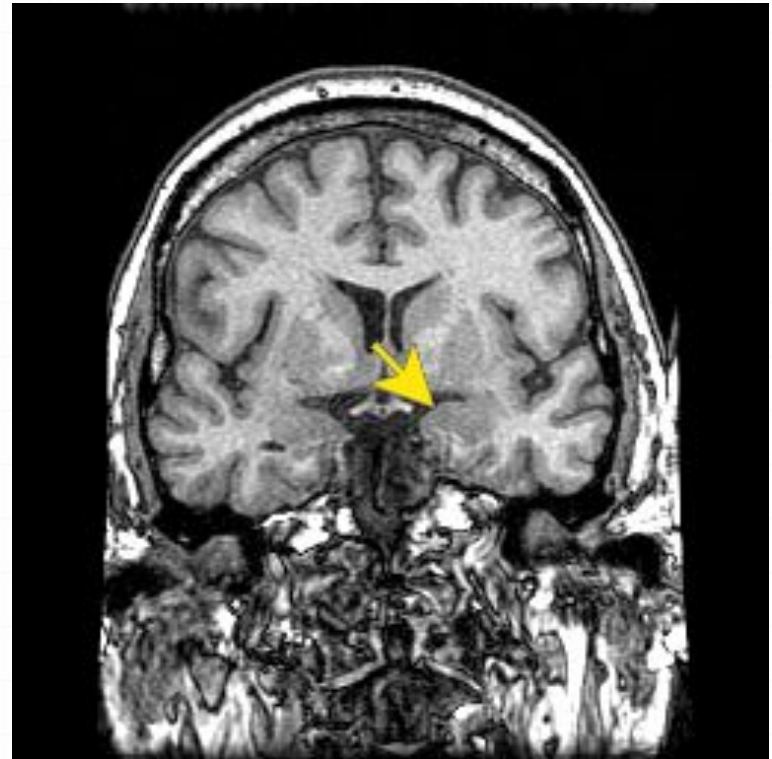
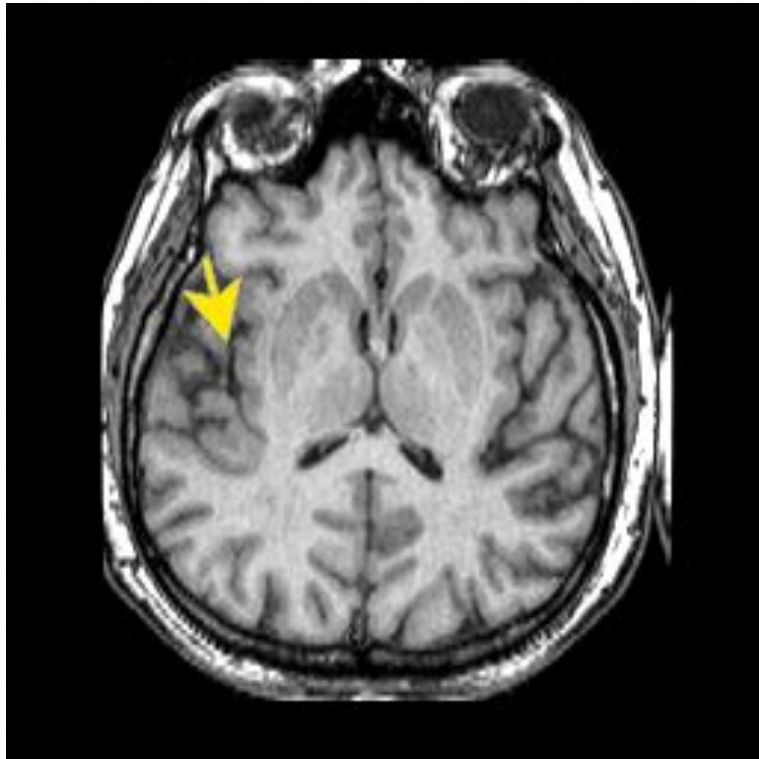
Ventricles



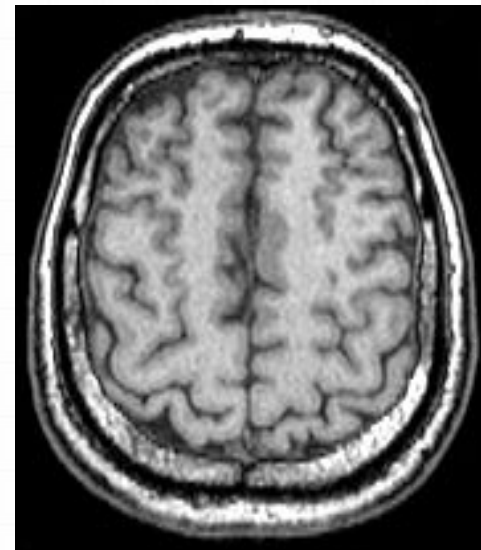
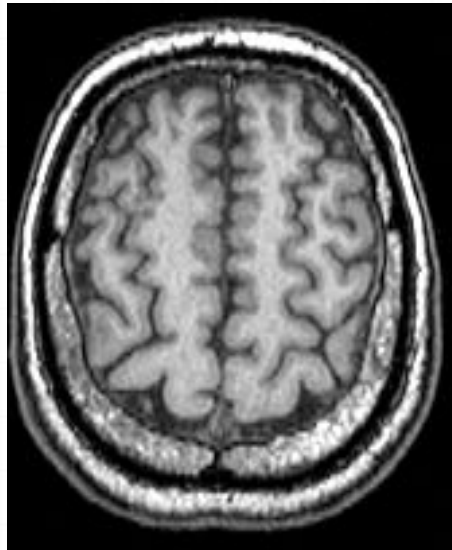
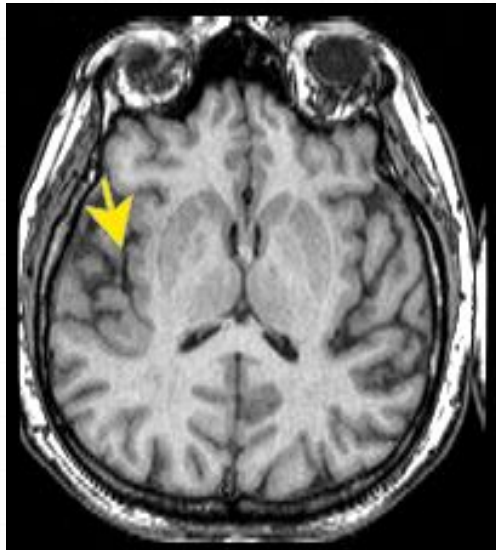
Deep nuclei



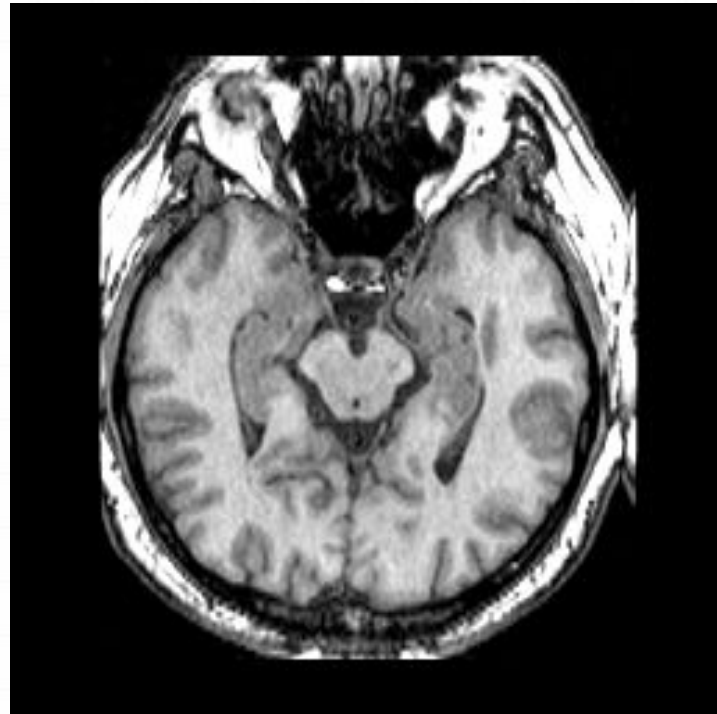
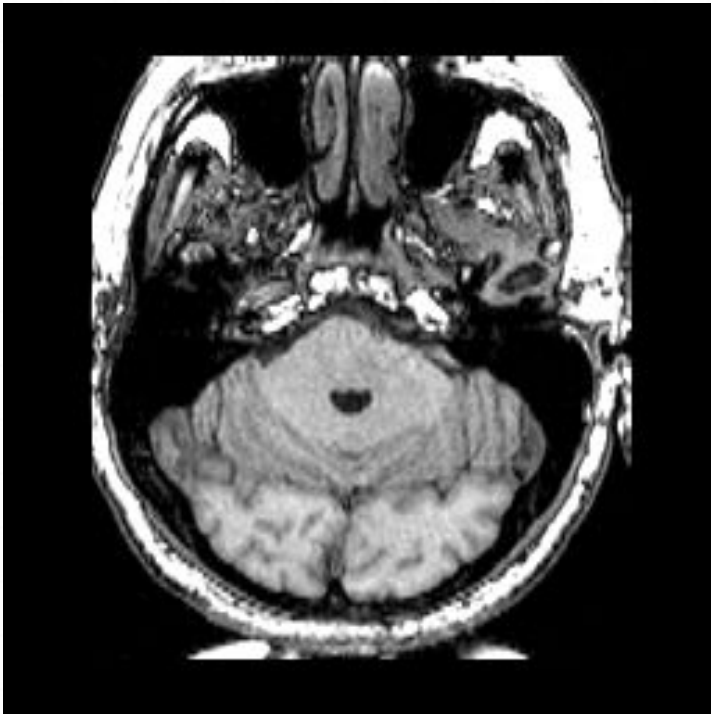
White matter



Cerebral cortex



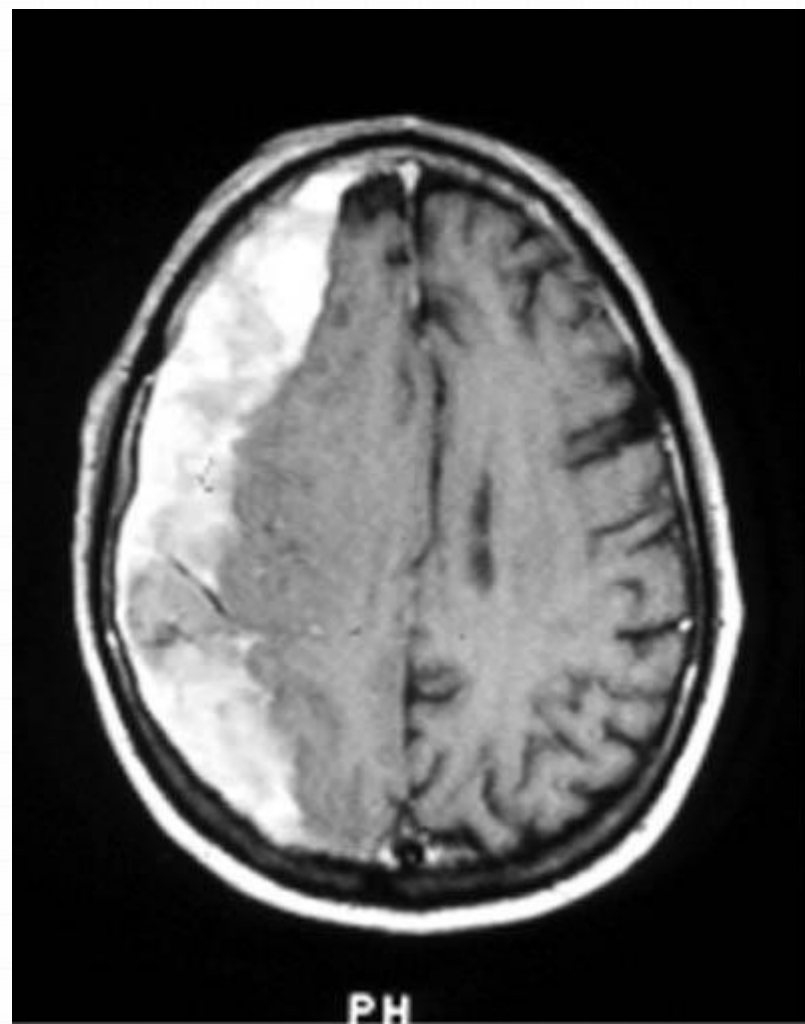
Brainstem and Cerebellum



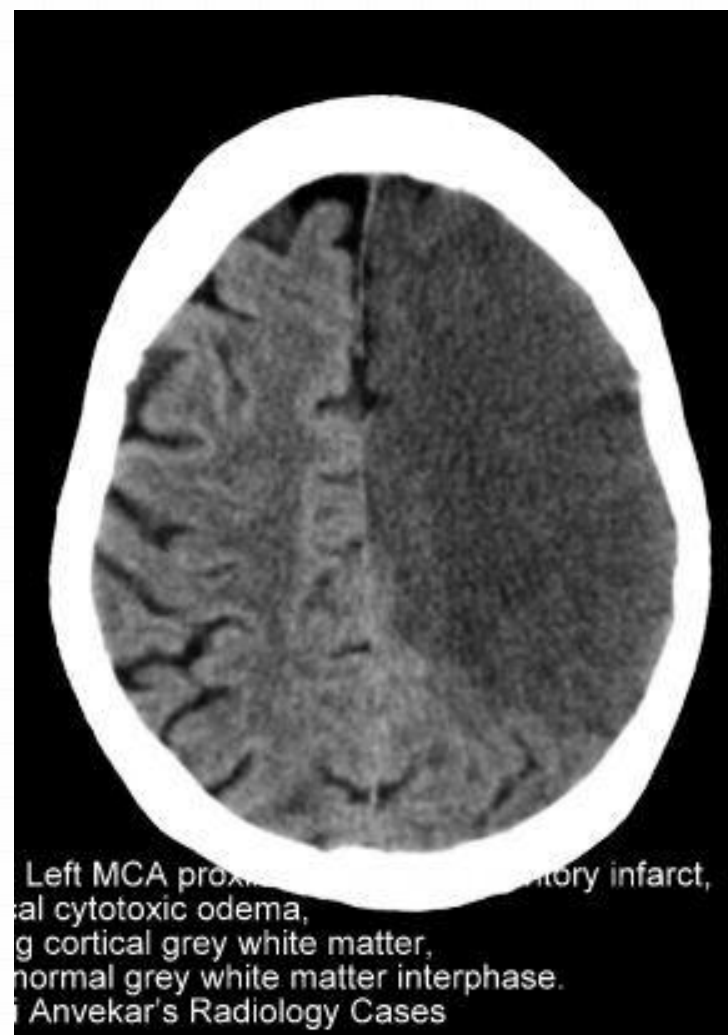
Detecting pathology

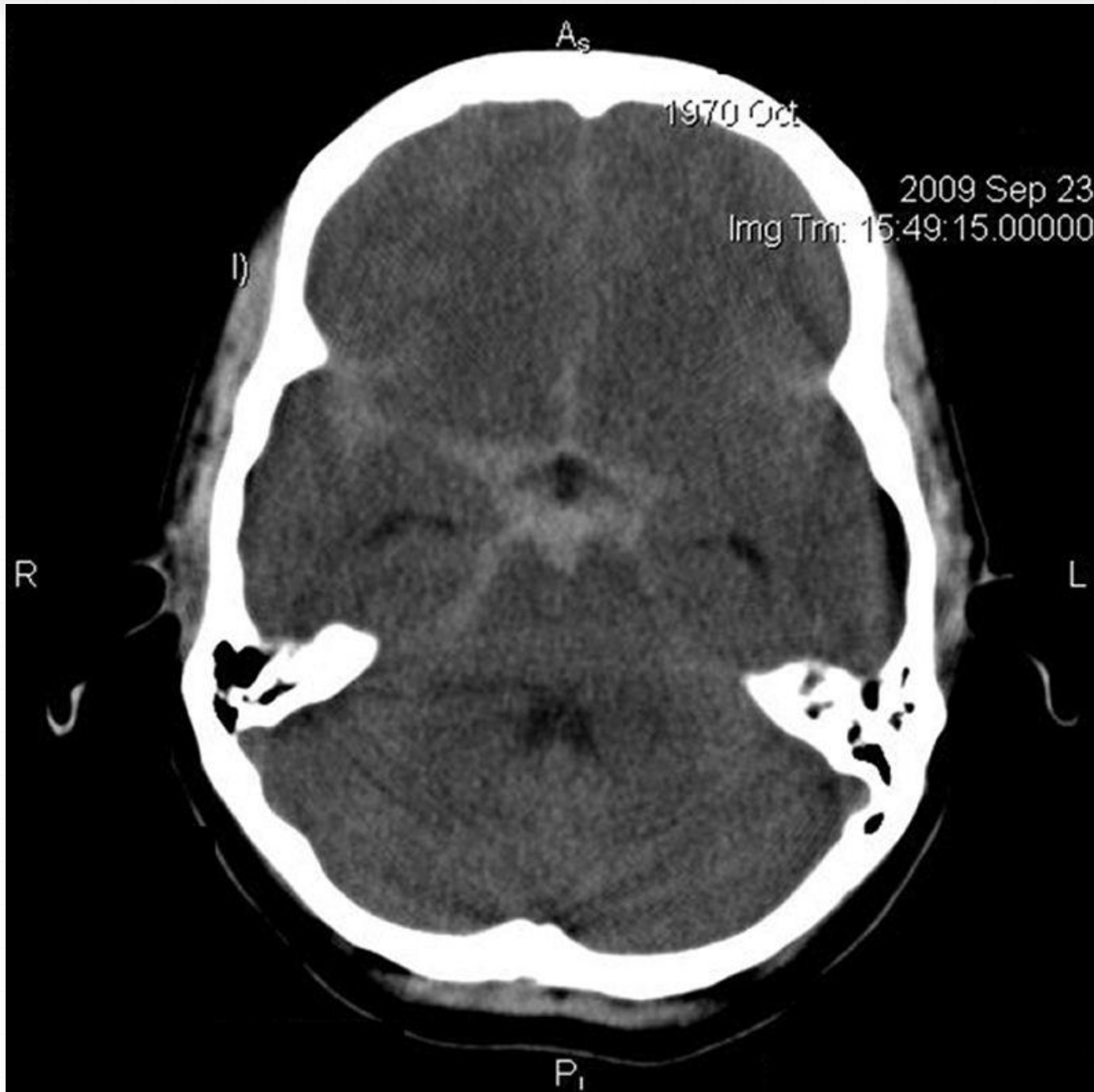
0 5 check areas

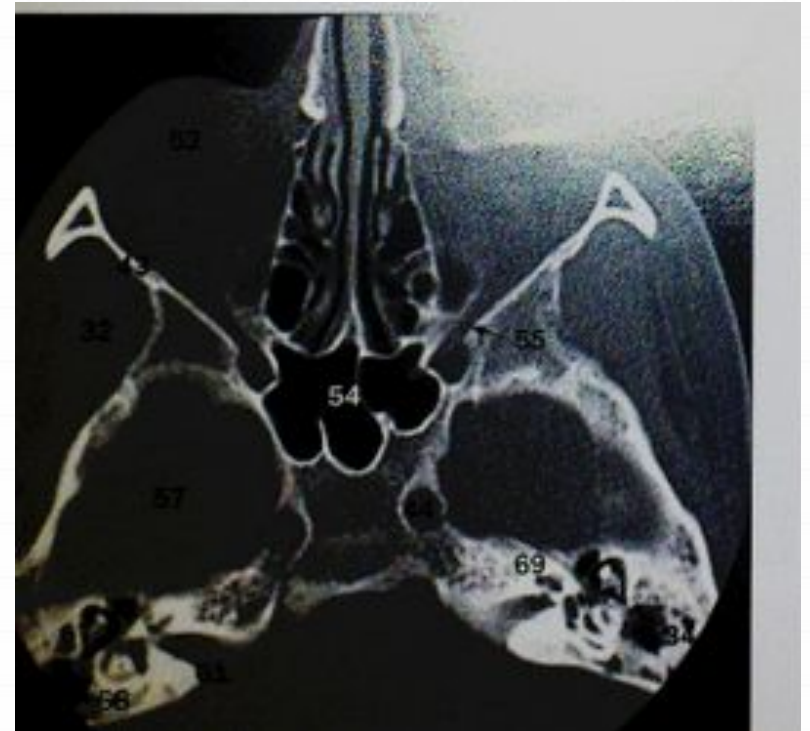
- 0 Extra-axial – Bleeds + Collections – Extradural, subdural, and subarachnoid, meningiomas
- 0 Intraxial – Masses, oedema, haemorrhage
- 0 Basal cisterns and ventricles – Mass effect (midline shift, compressed ventricles), Hydrocephalus, occult subarachnoid blood
- 0 Blood vessels
- 0 Bones – Fractures, acoustic neuromas



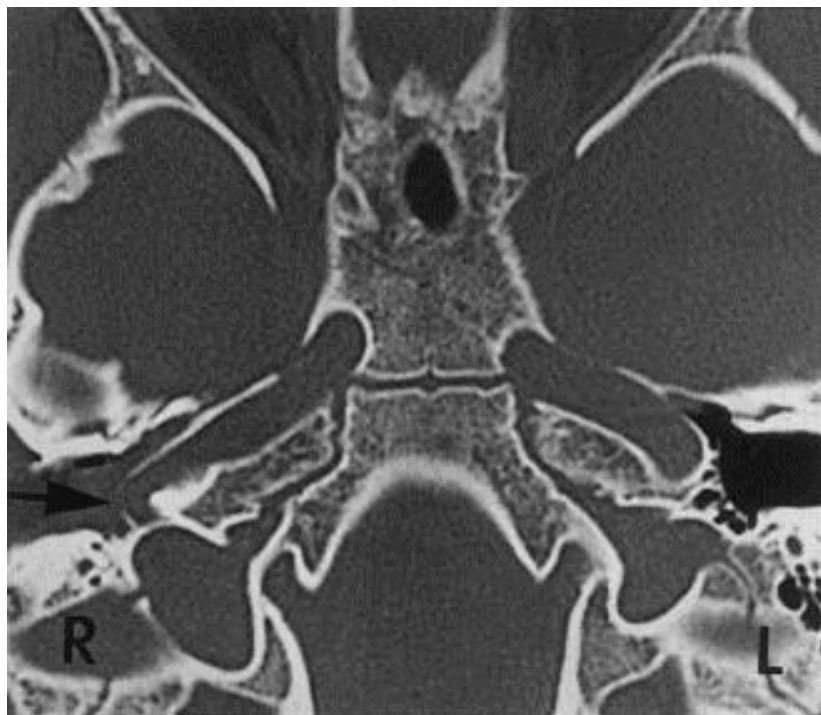












Vascular surgical anatomy

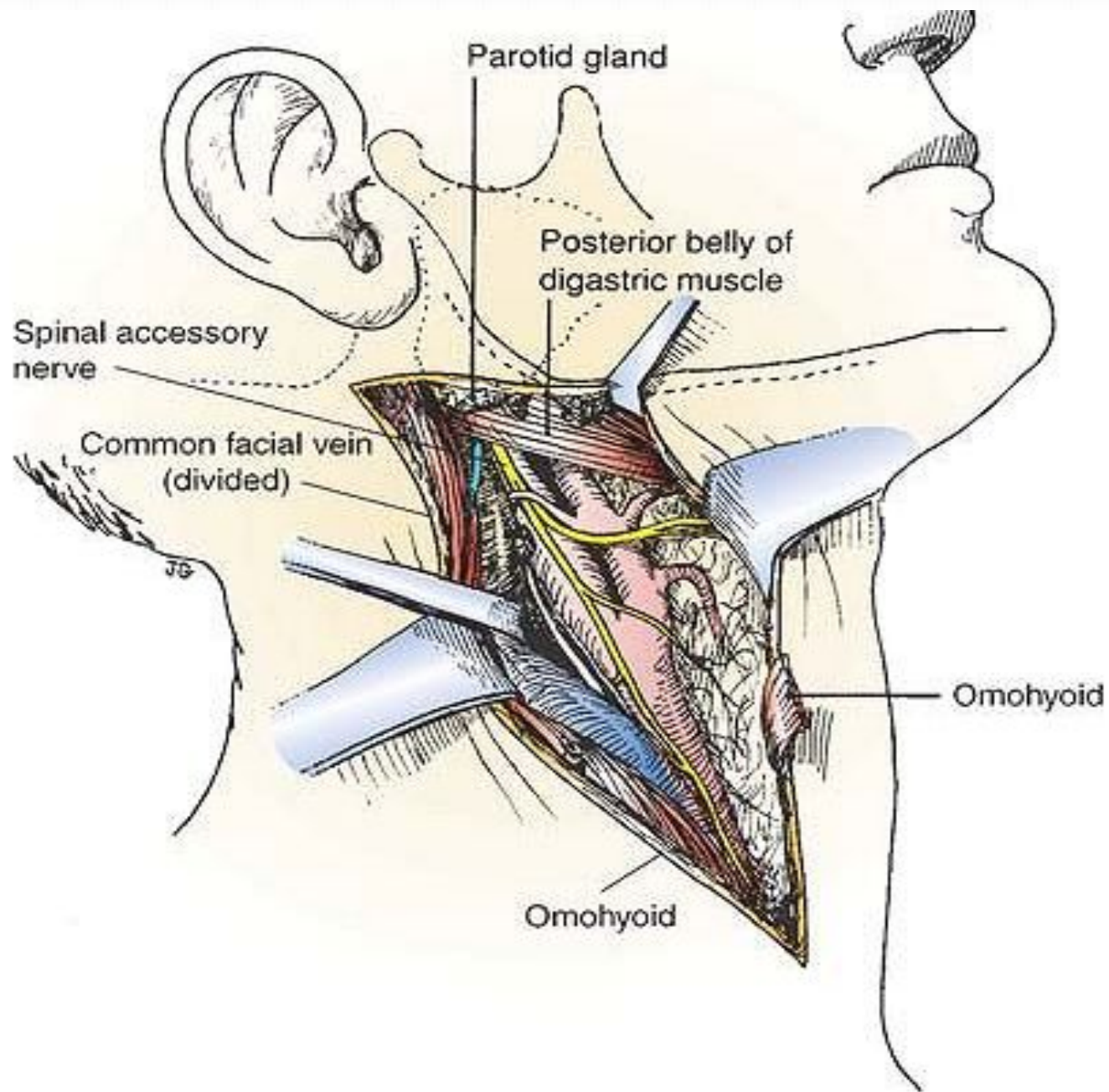
Common operations

- 0 Common carotid artery
- 0 Brachial
- 0 Radial
- 0 Femoral
- 0 Popliteal

Common carotid a

0 Dangers

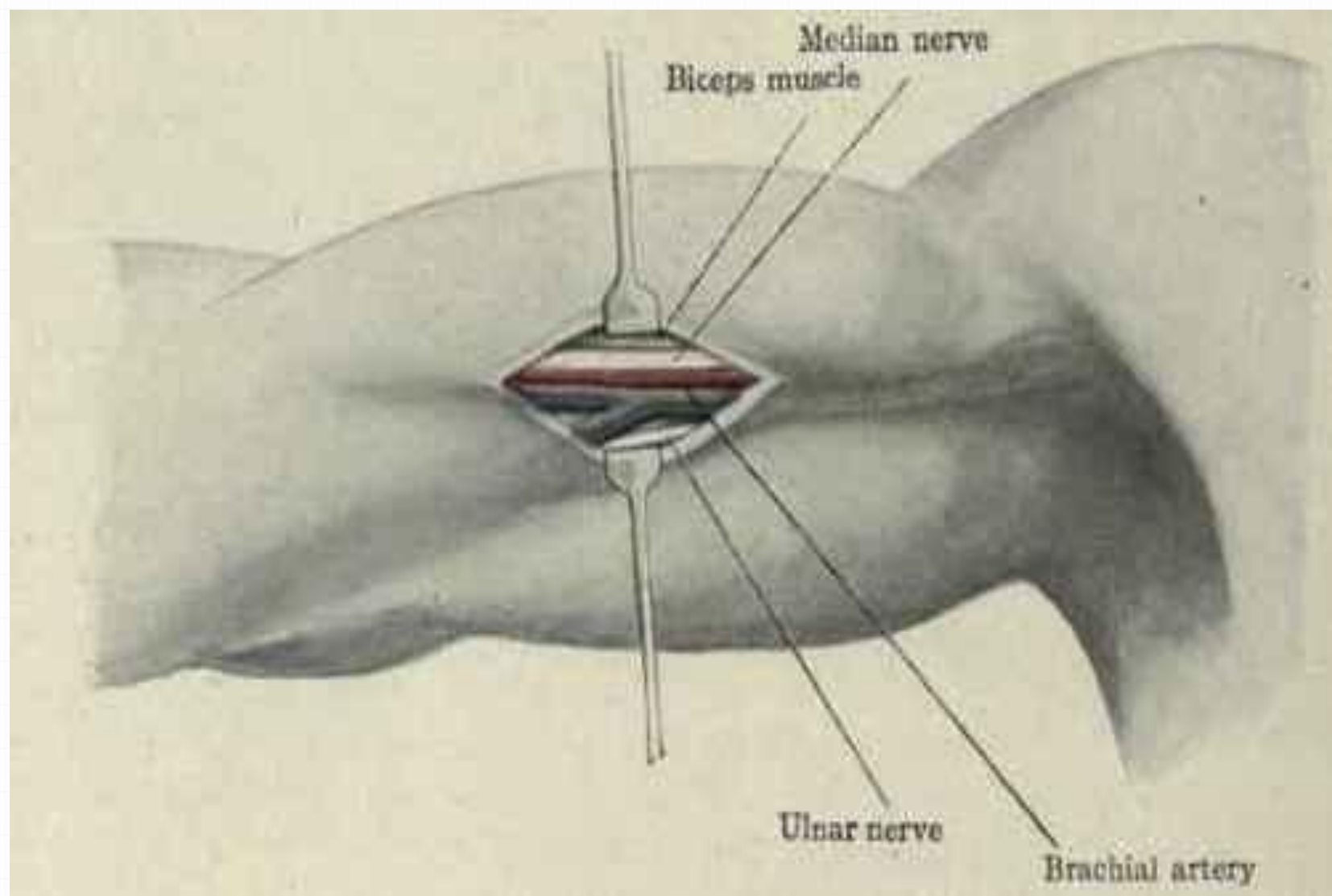
0 Layers



Brachial a

0 Dangers

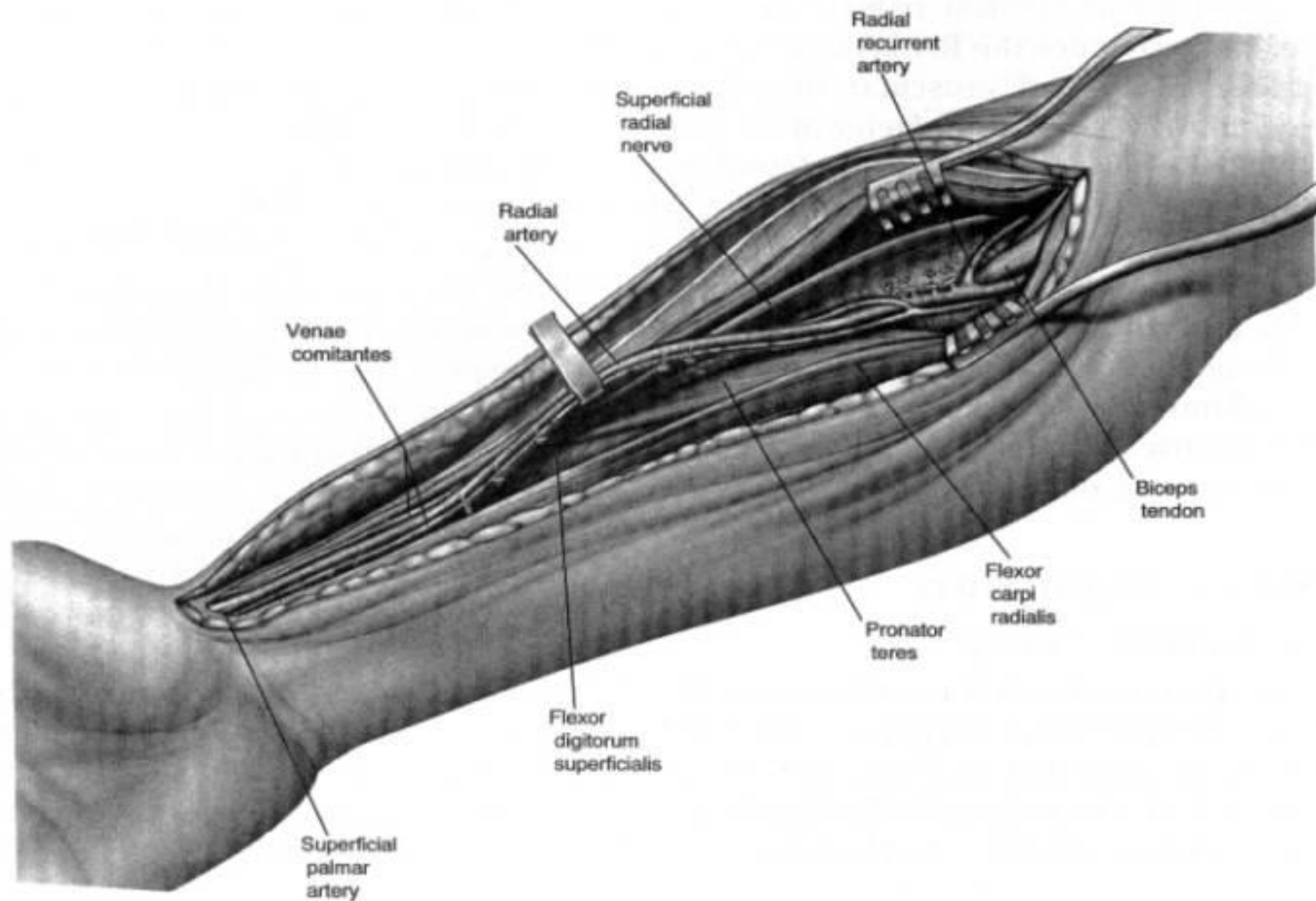
0 Layers



Radial a

0 Dangers

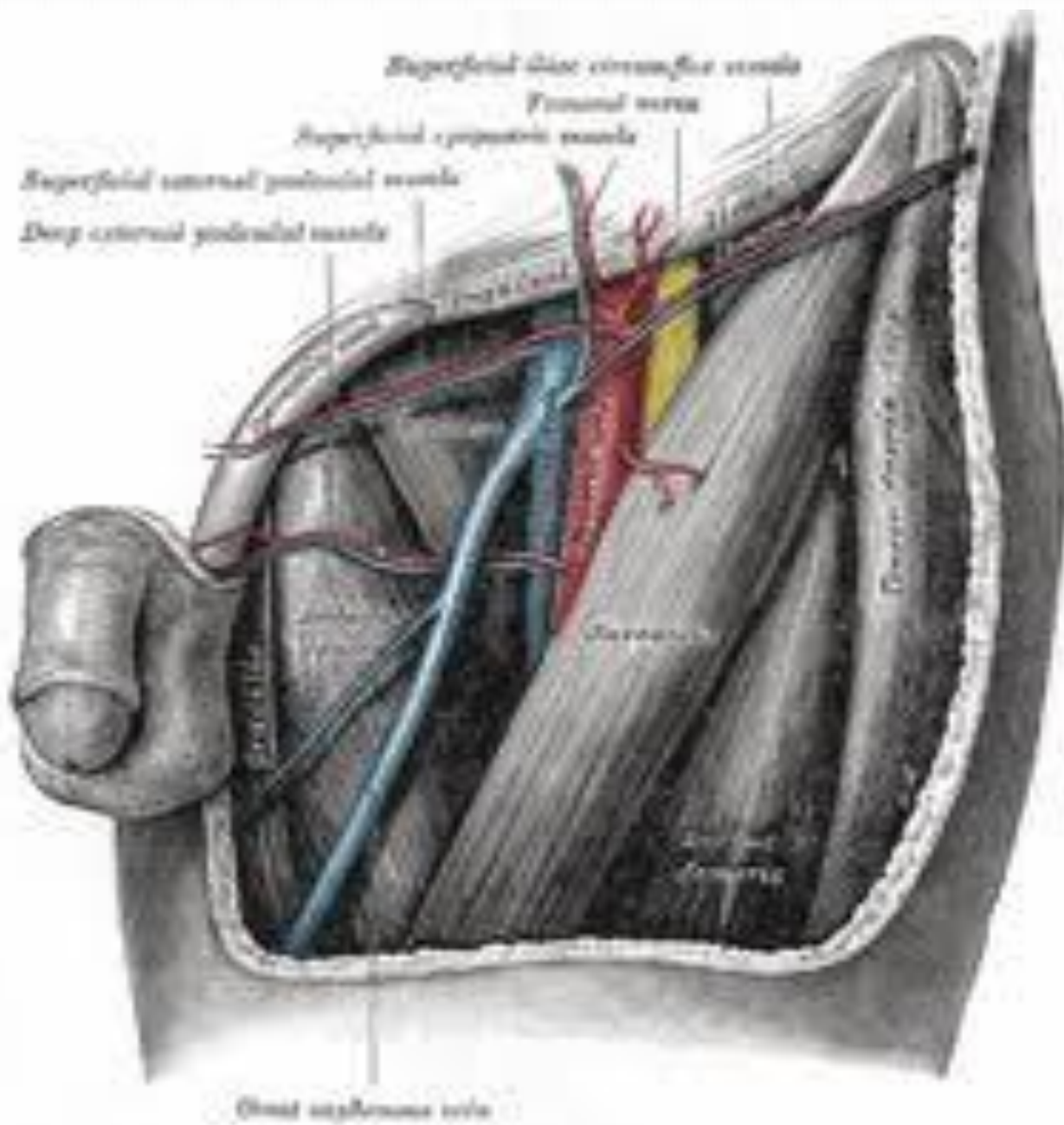
0 Layers



Femoral

0 Dangers

0 Layers



Popliteal artery

0 Dangers

0 Layers

