

Neurosurgical  
and Vascular  
Surgical anatomy

# Outline

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

# Neurosurgical anatomy

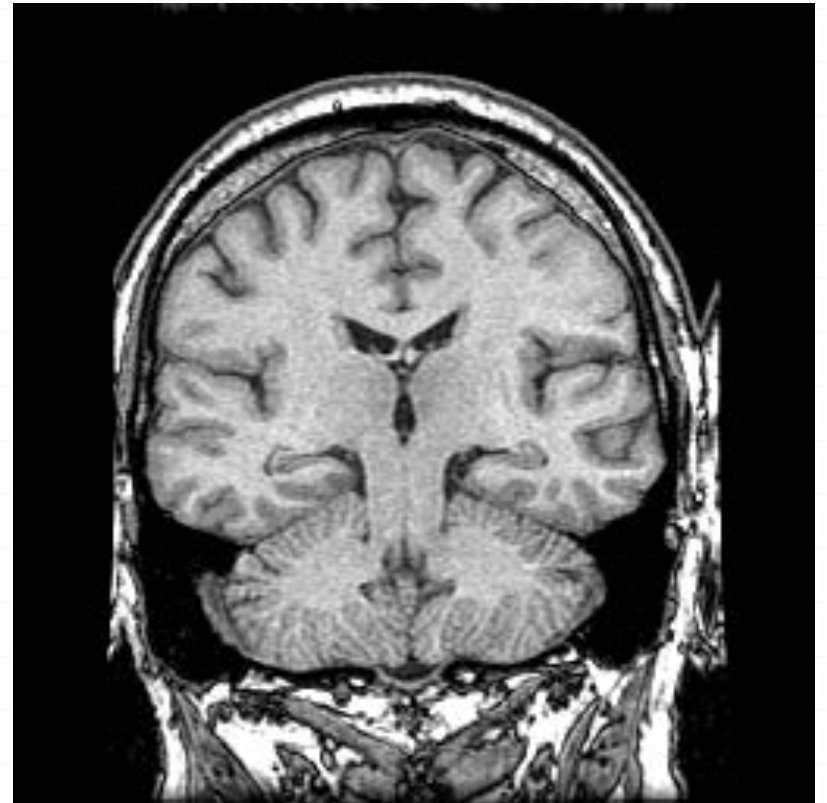
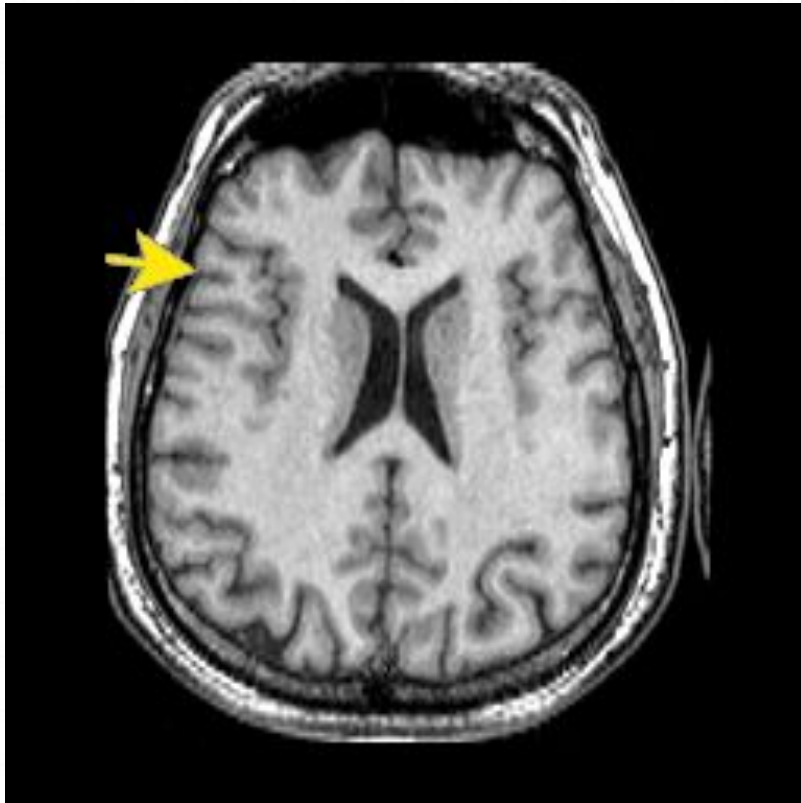
# Sectional anatomy :Brain

- 0 Cerebrum
- 0 Cerebellum
- 0 Brainstem

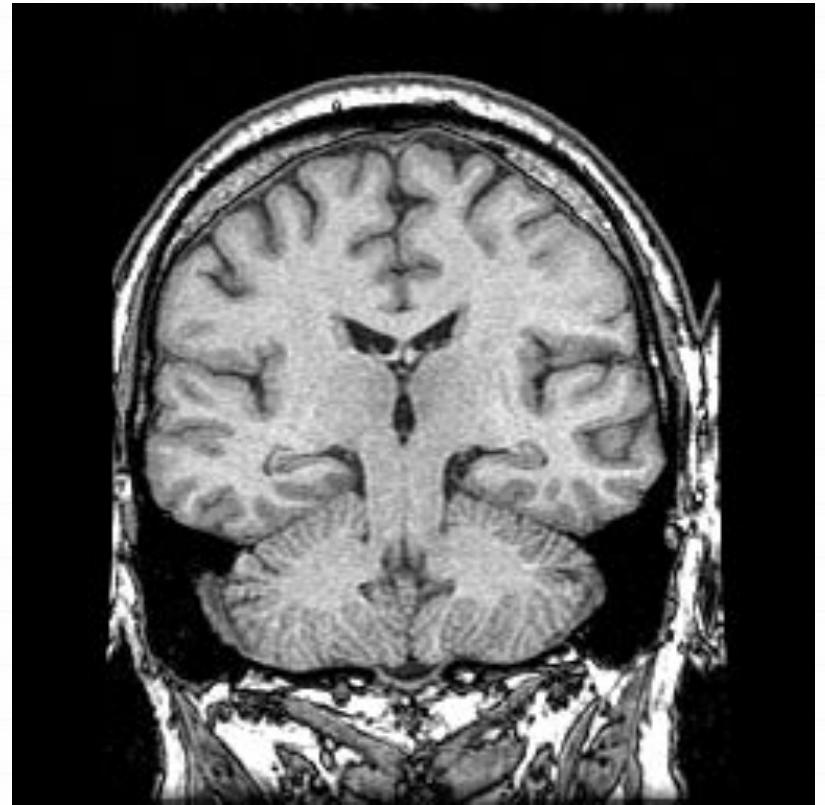
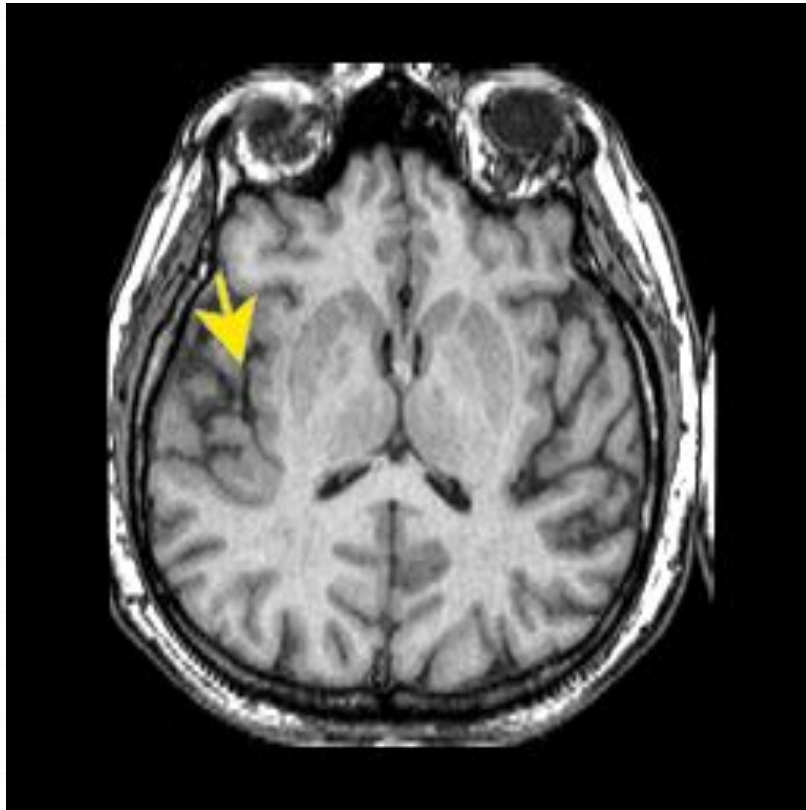
# Cerebrum

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

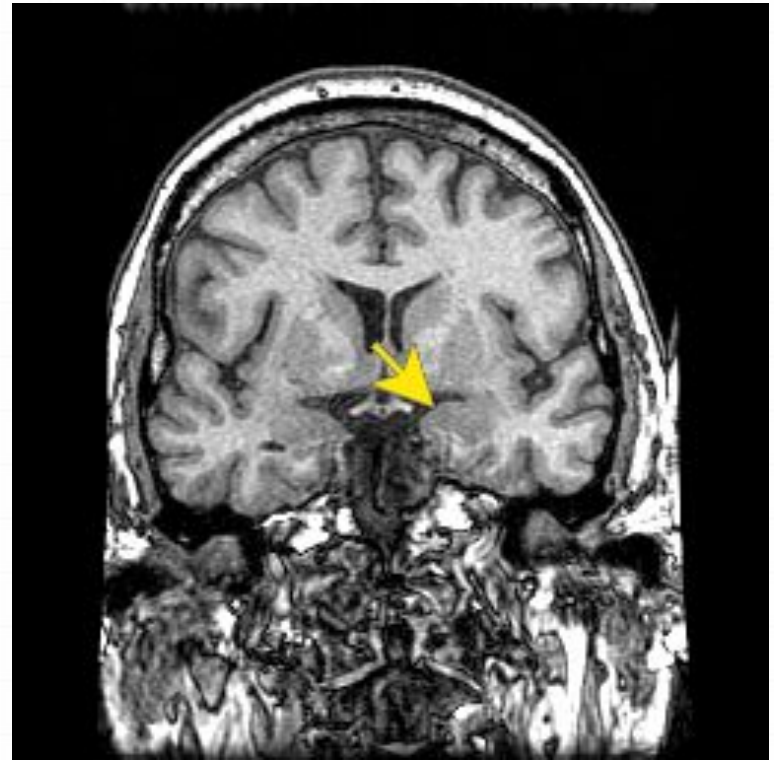
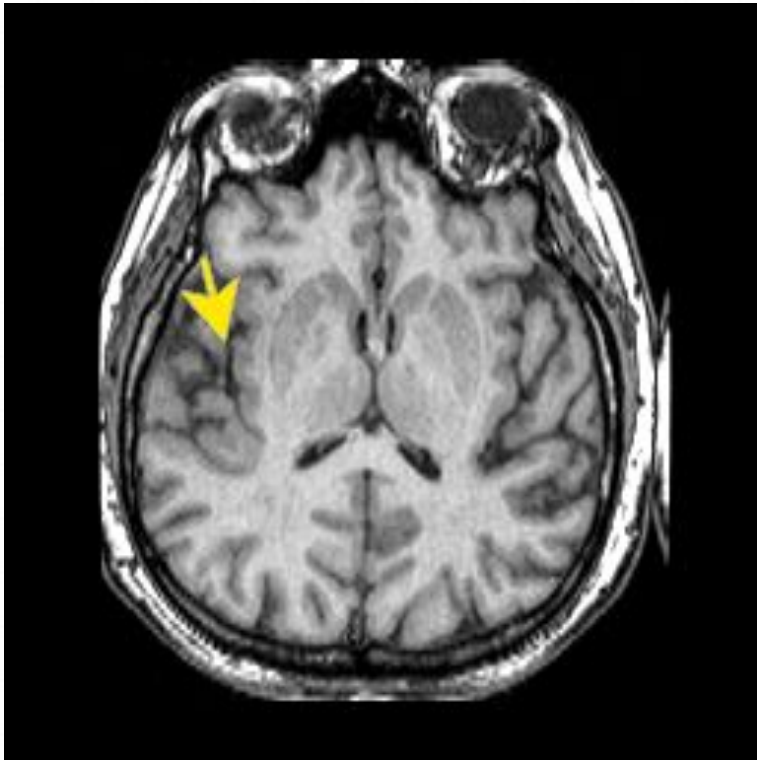
# Ventricles



# Deep nuclei

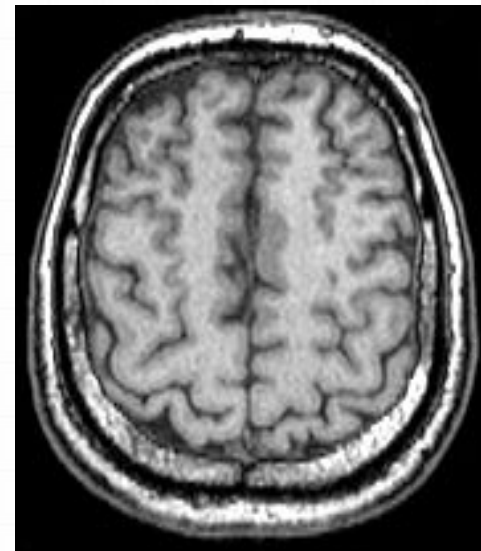
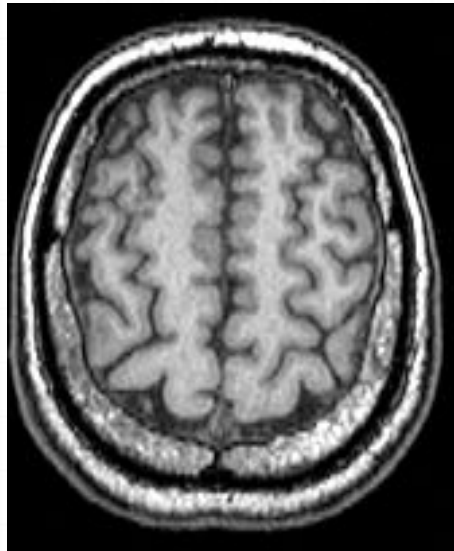
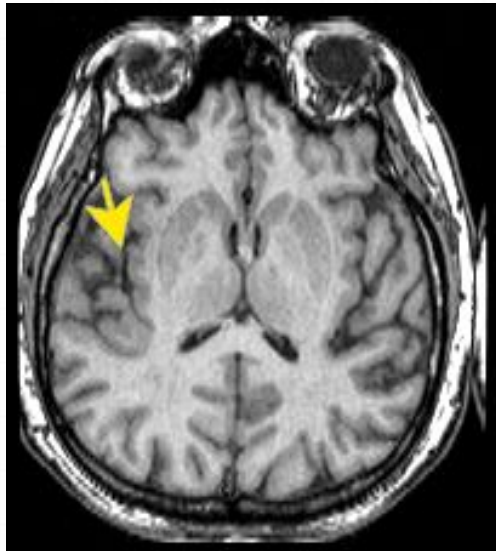


# White matter

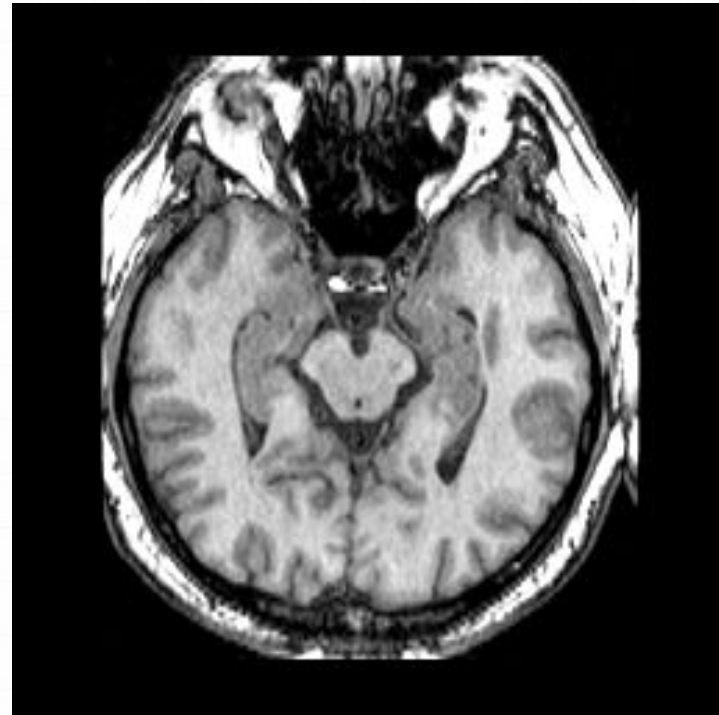
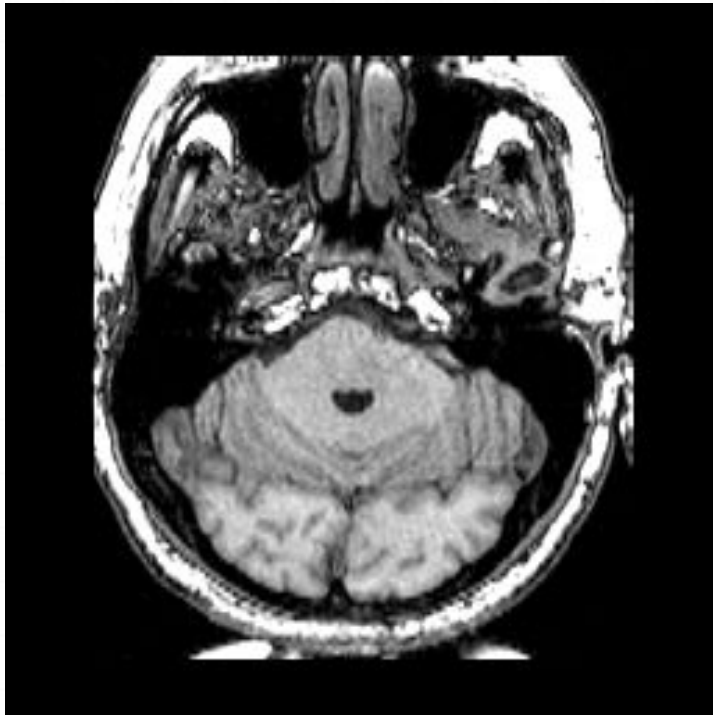




# Cerebral cortex



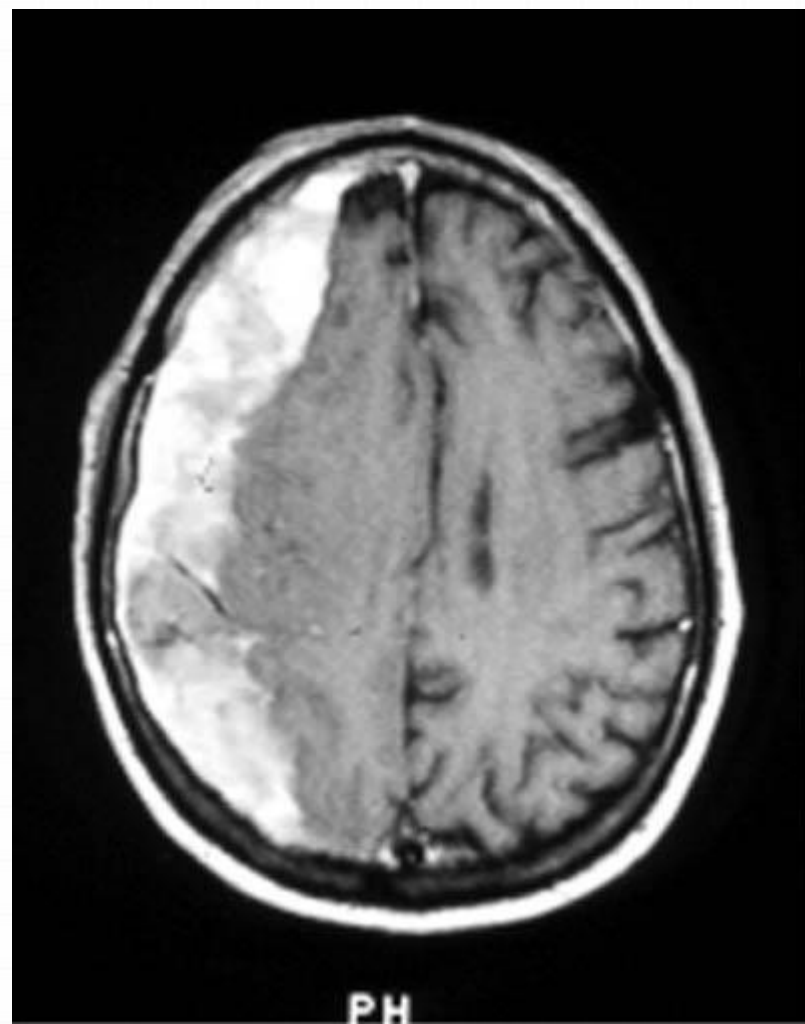
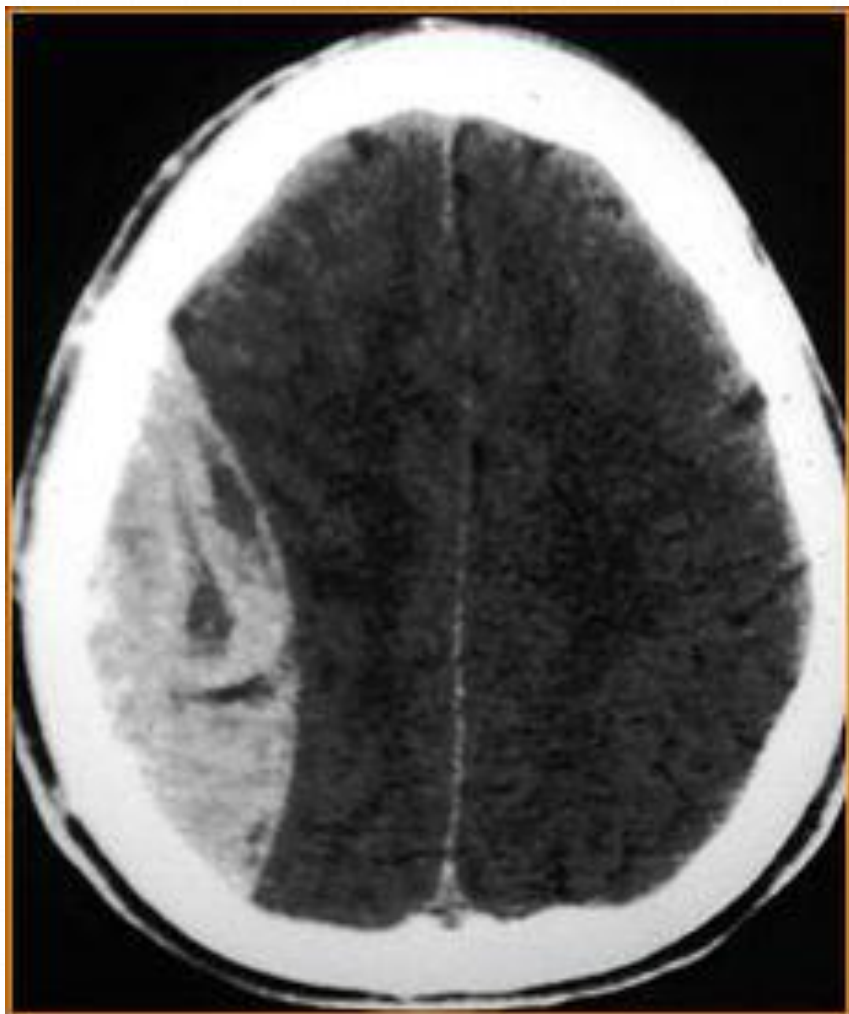
# Brainstem and Cerebellum



# Detecting pathology

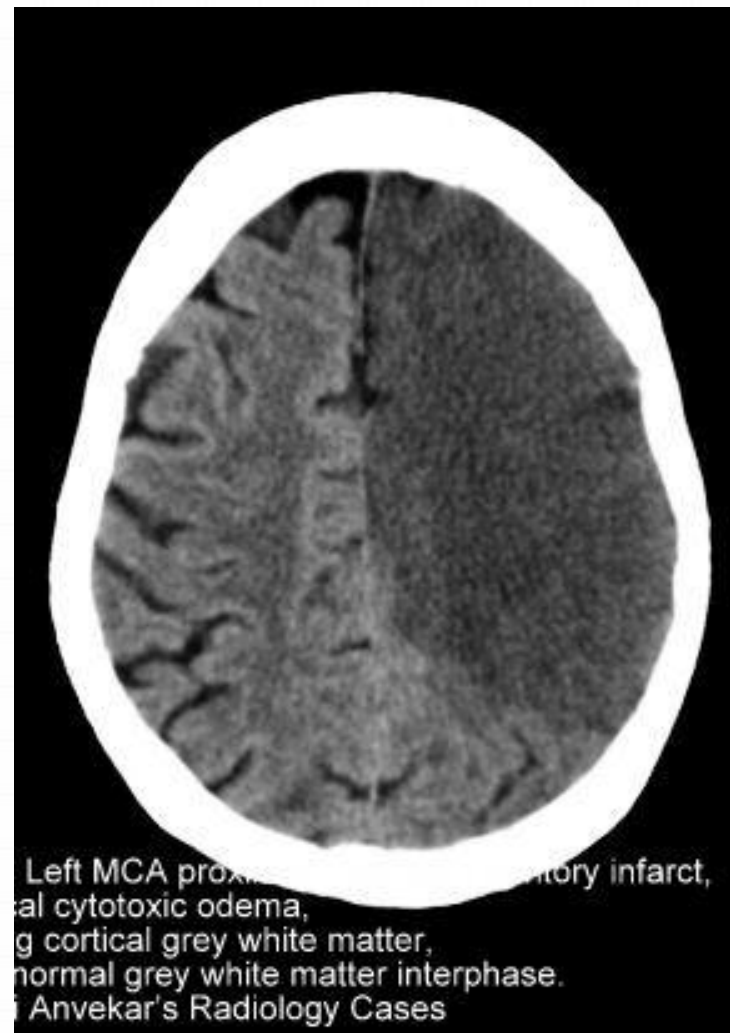
## 0 5 check areas

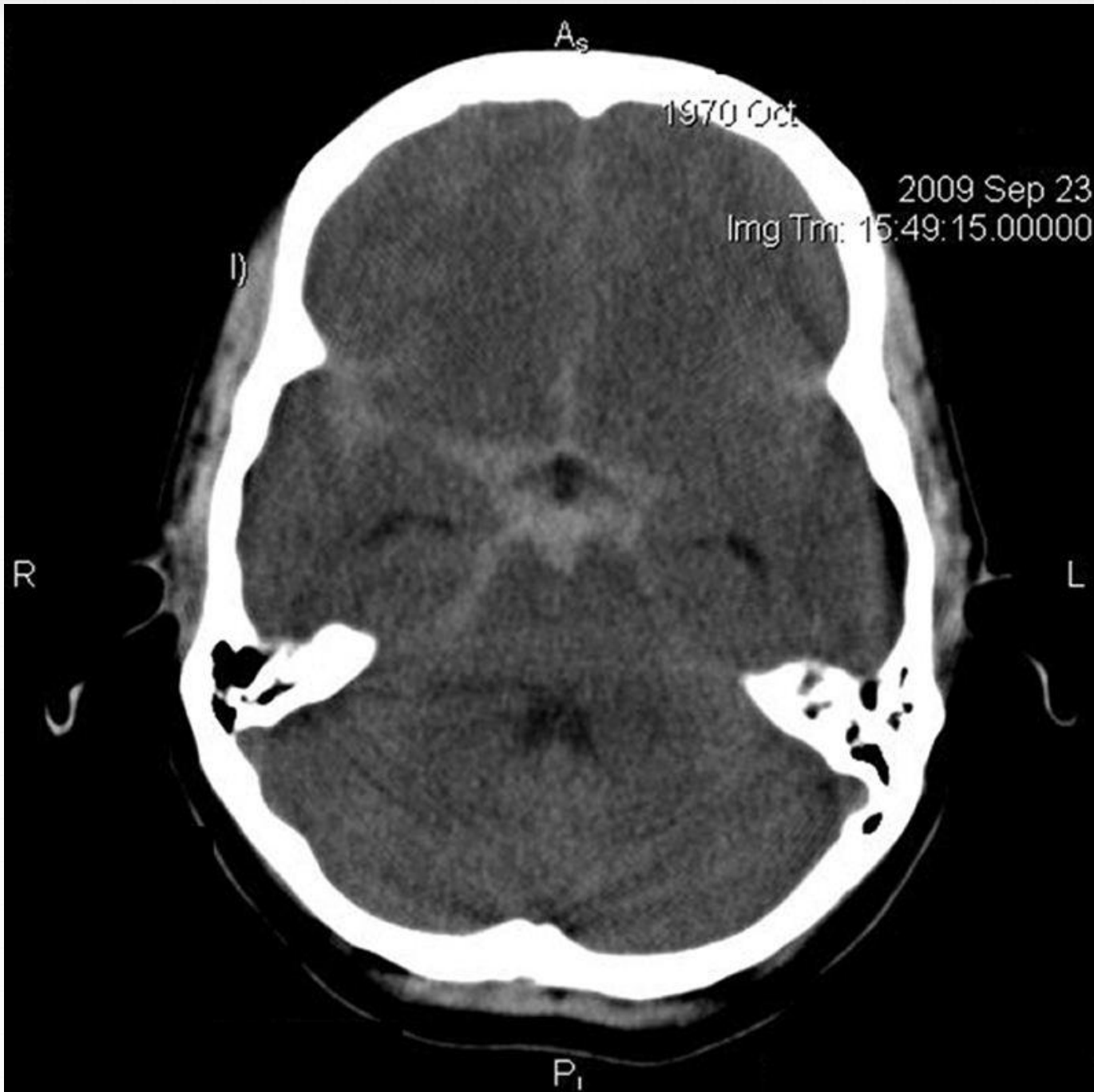
- 0 Extra-axial – Bleeds + Collections – Extradural, subdural, and subarachnoid, meningiomas
- 0 Intraxial – Masses, oedema, haemorrhage
- 0 Basal cisterns and ventricles – Mass effect (midline shift, compressed ventricles), Hydrocephalus, occult subarachnoid blood
- 0 Blood vessels
- 0 Bones – Fractures,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

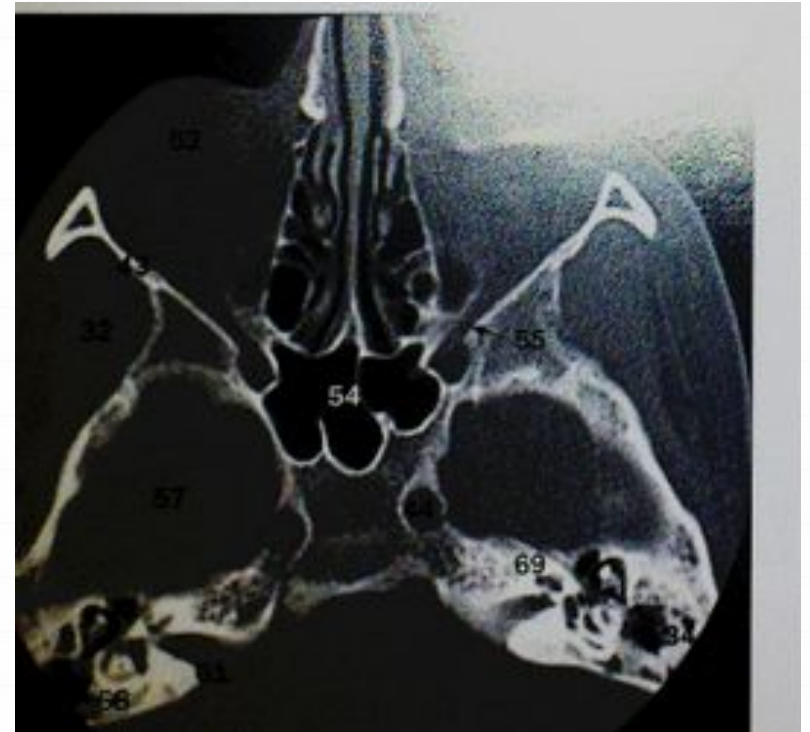
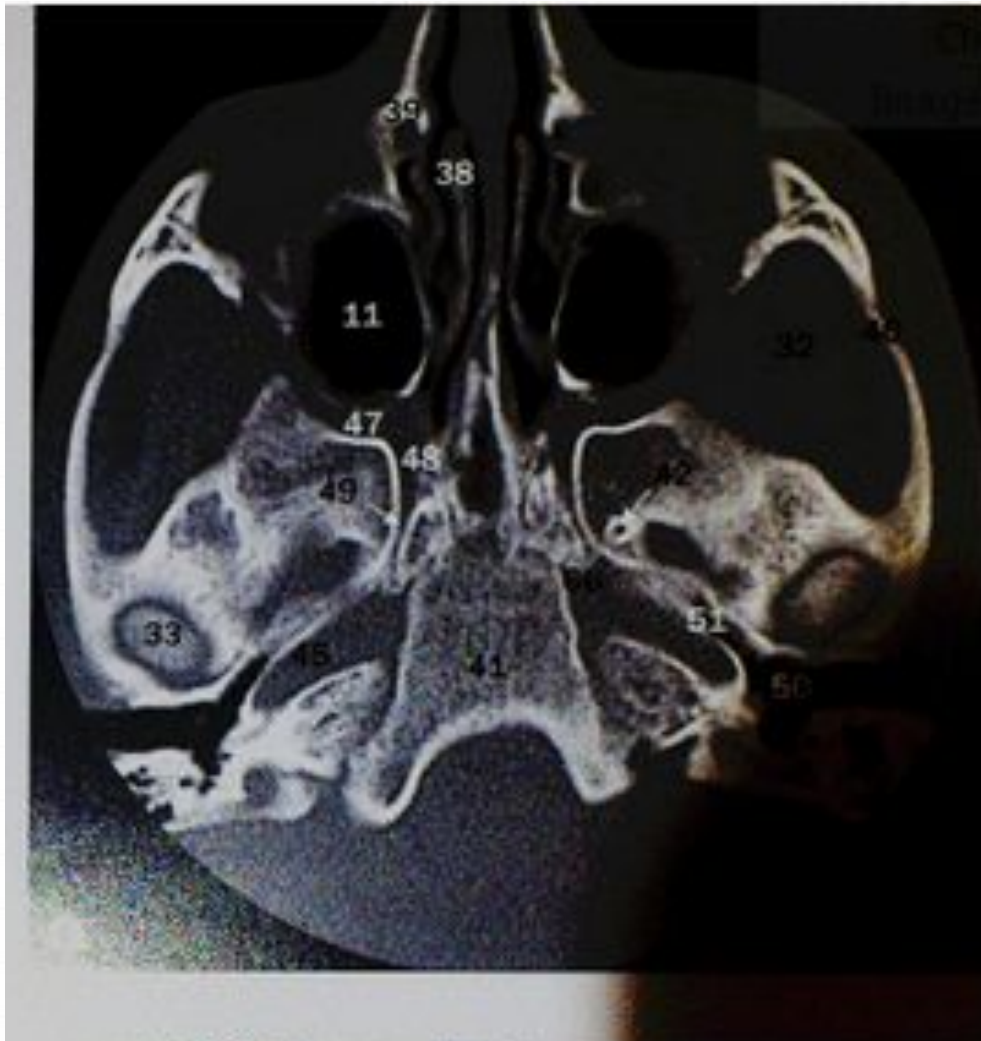






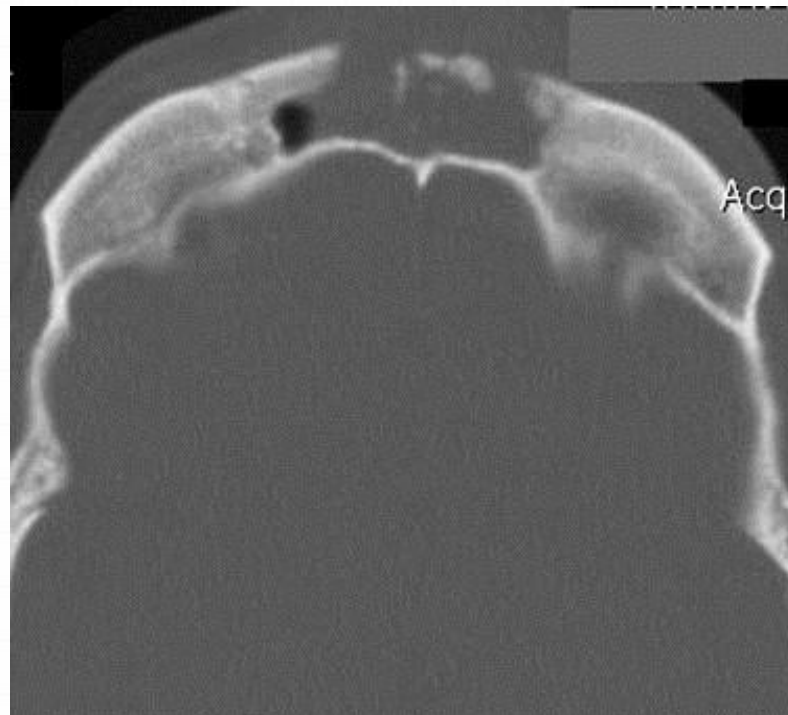
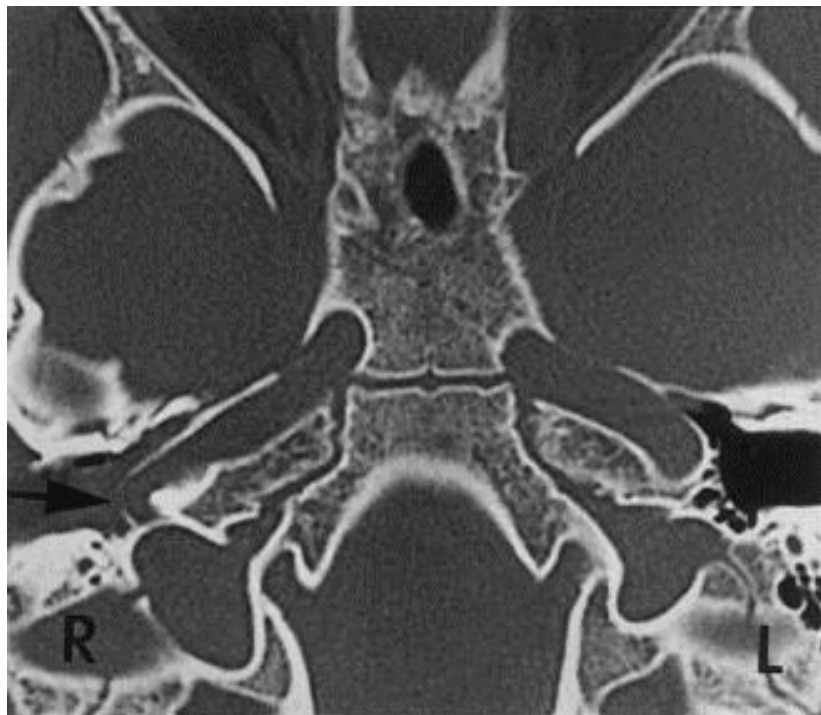












# Vascular surgical anatomy

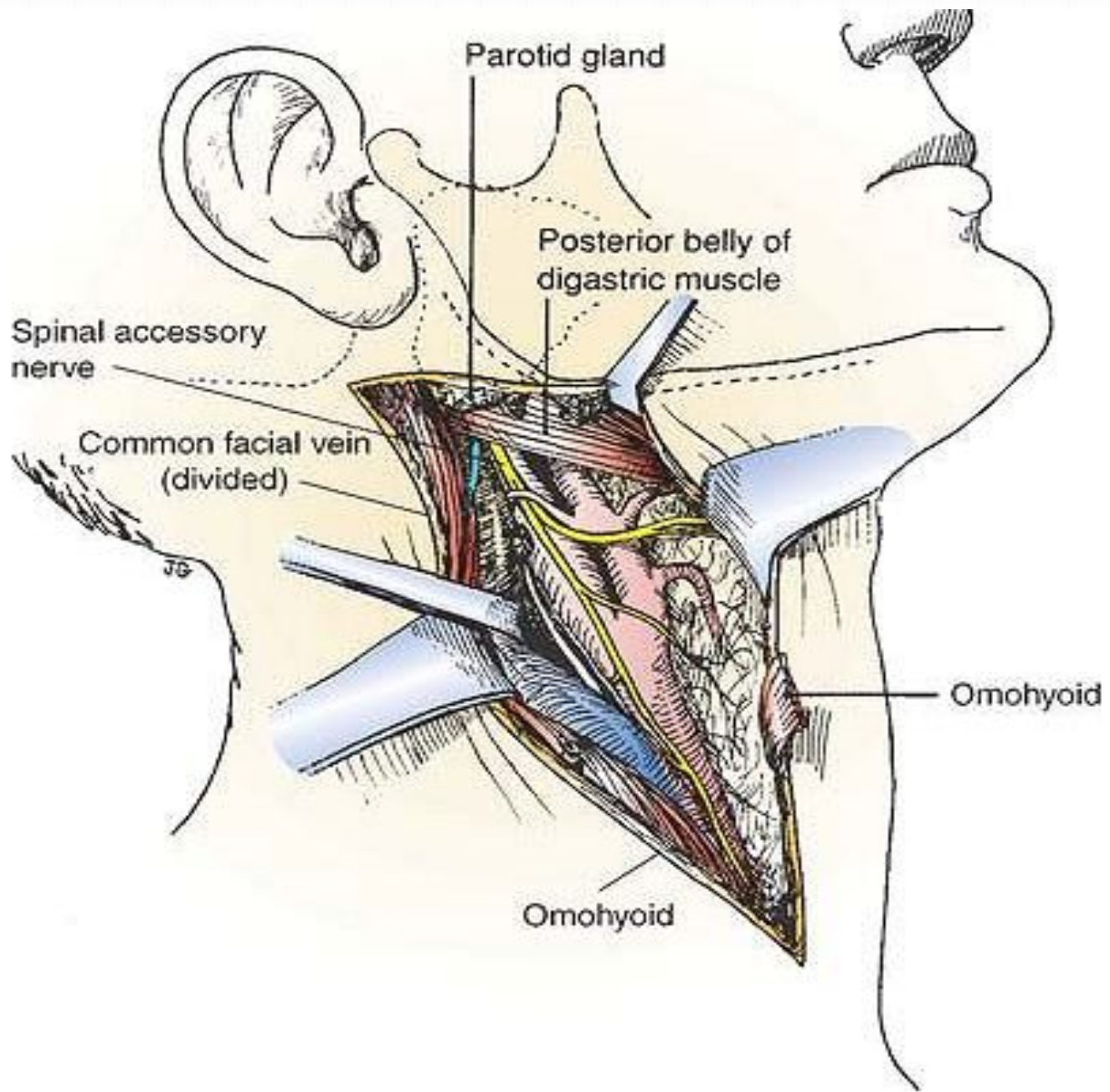
# Common operations

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

# Common carotid a

0 Dangers

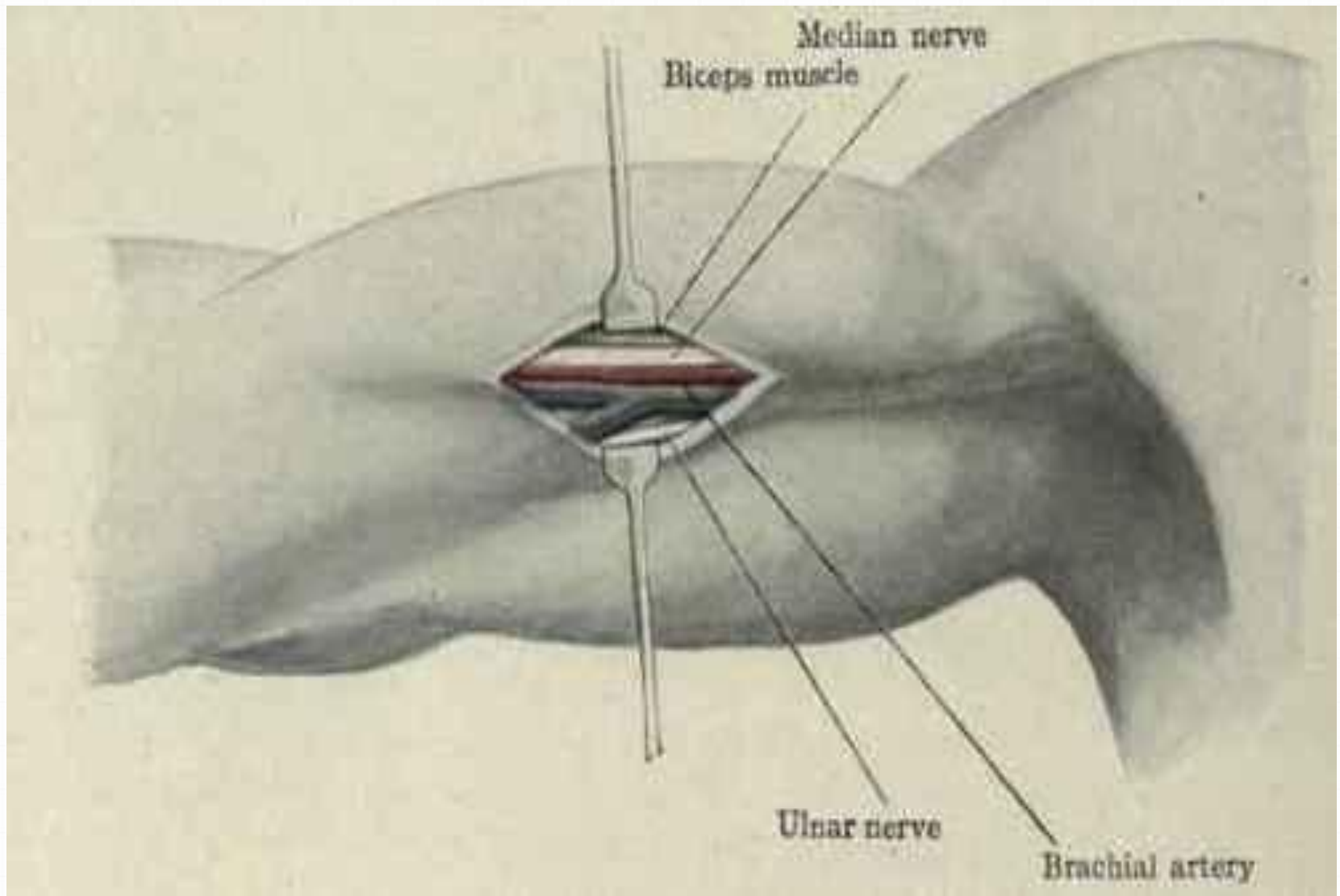
0 Layers



# Brachial a

0 Dangers

0 Layers

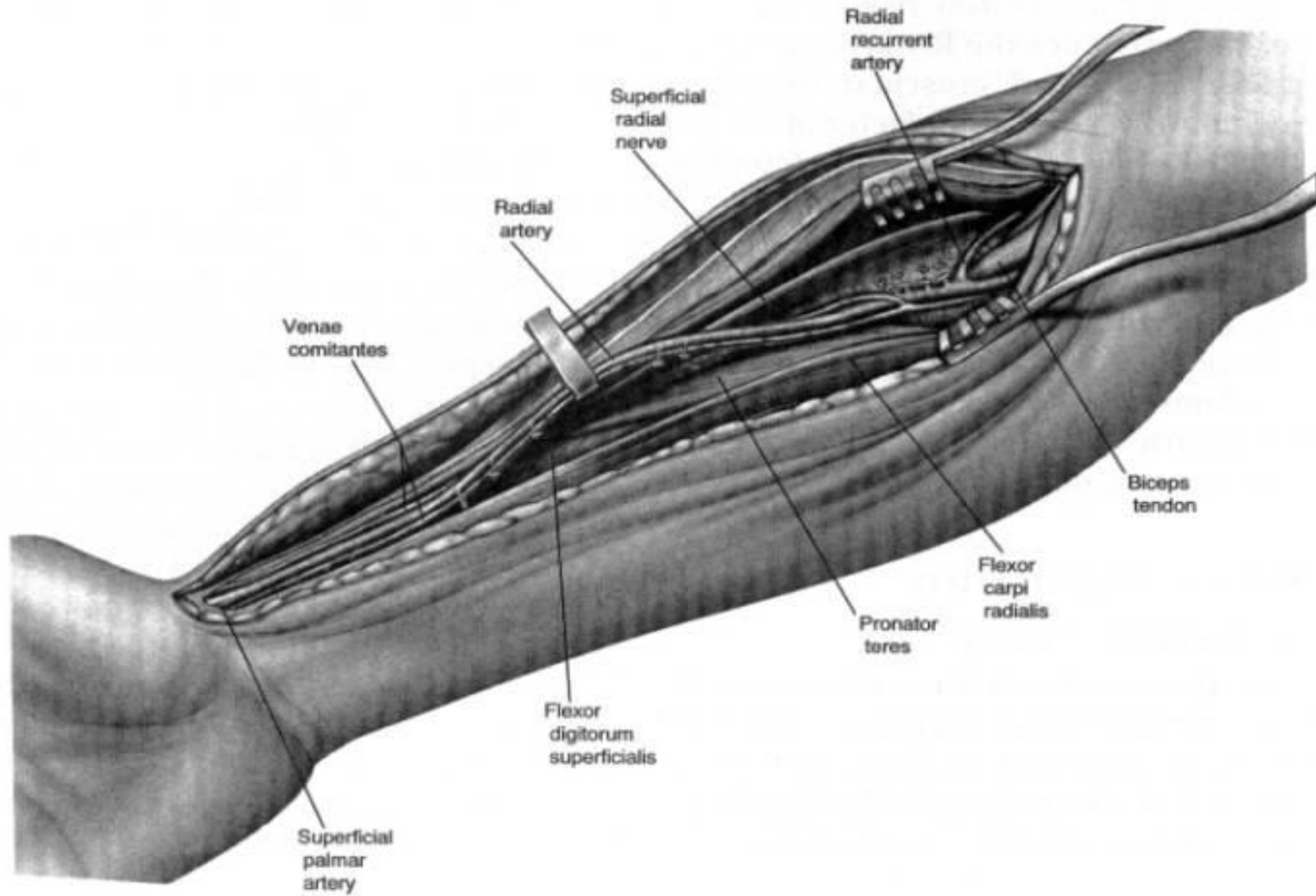




# Radial a

0 Dangers

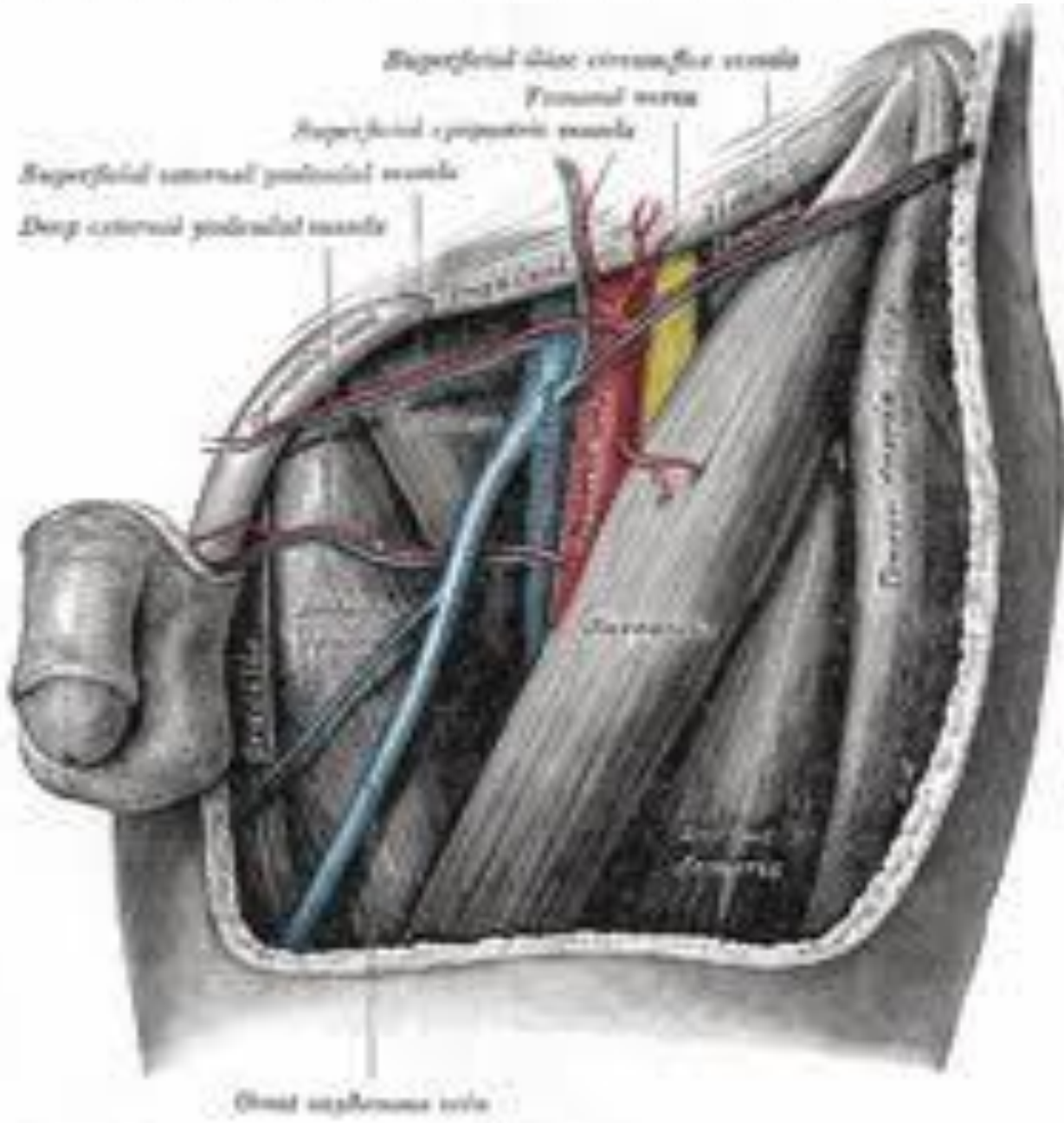
0 Layers



# Femoral

0 Dangers

0 Layers



# Popliteal artery

0 Dangers

0 Layers

