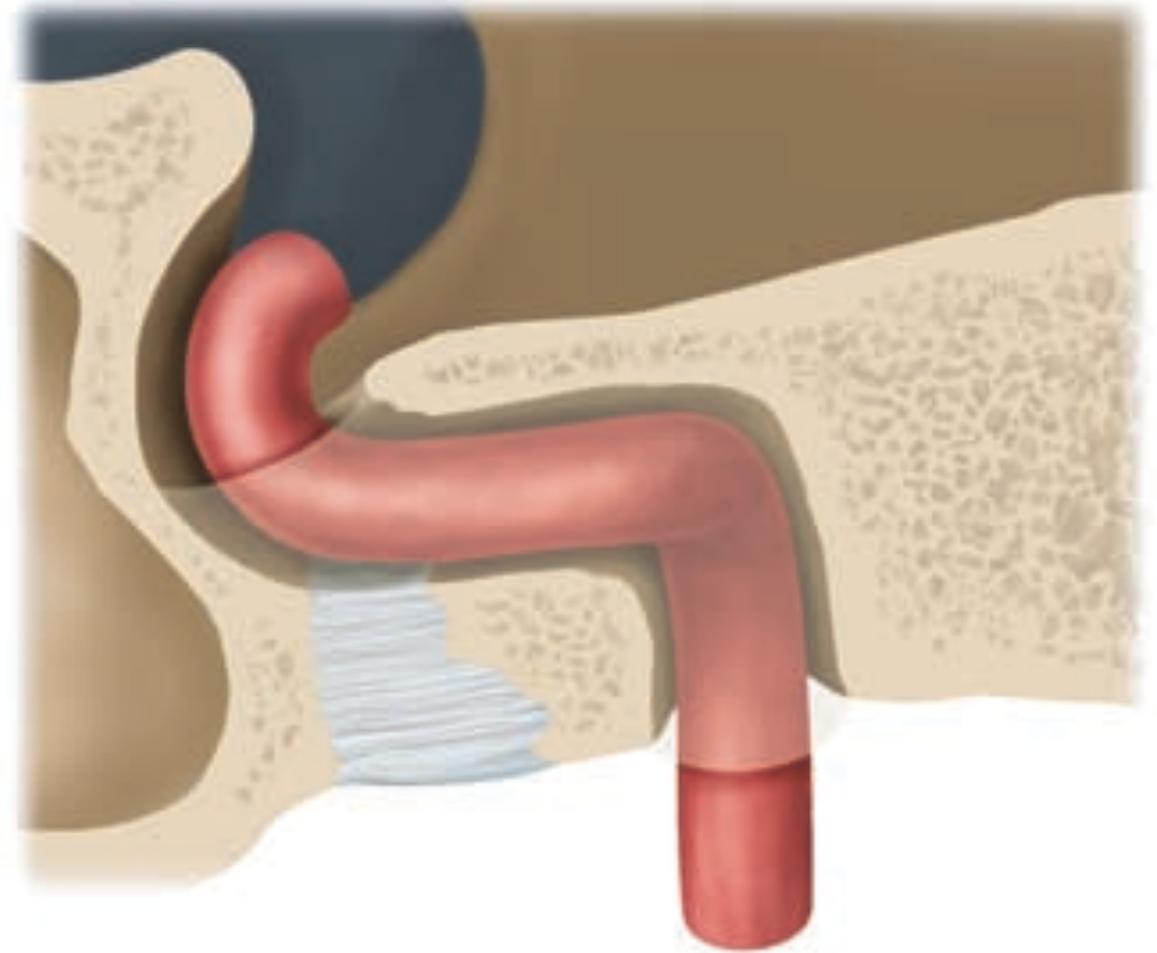


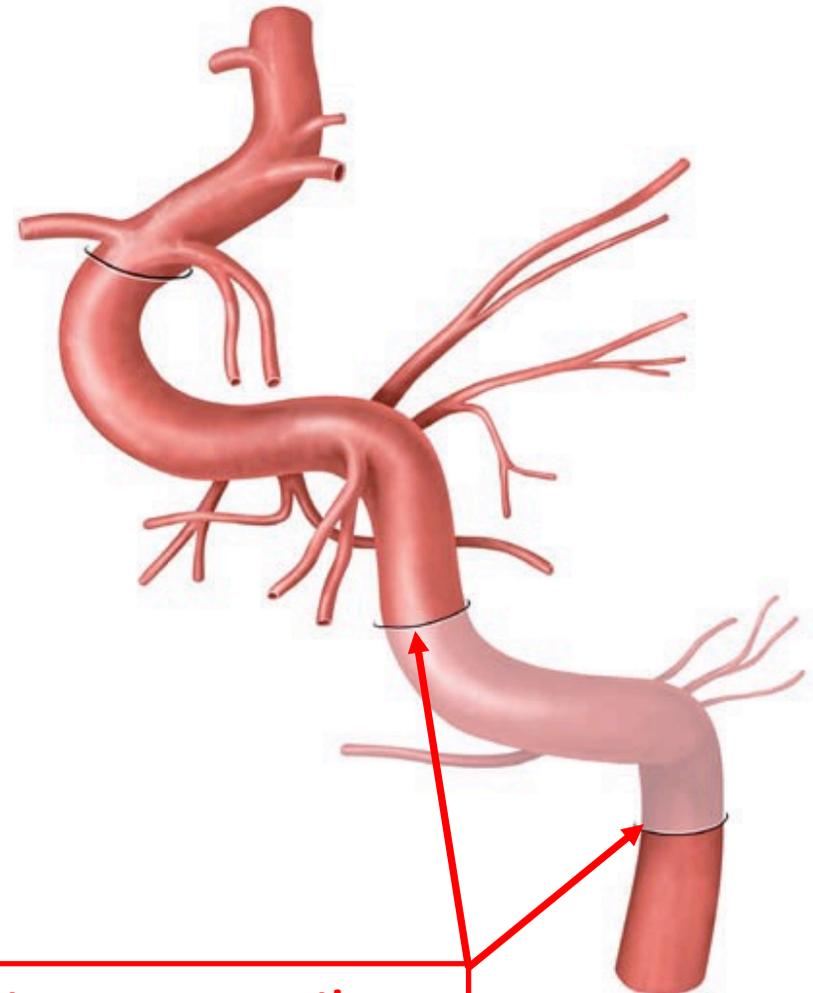
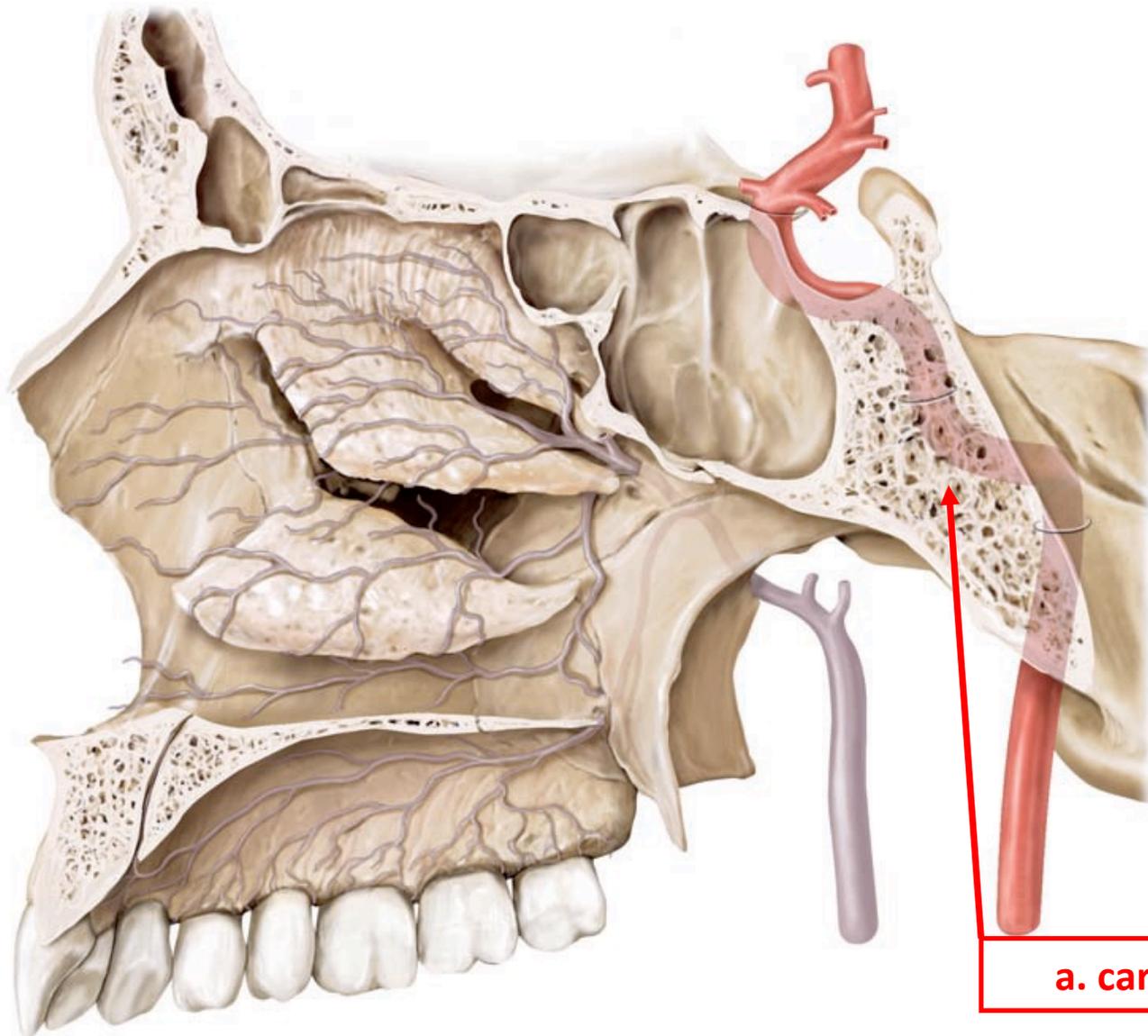
# Clinically important aspects of the temporal bone anatomy

# canalis caroticus

- ◆ Pars petrosa
- ◆ **Injury - occlusiona. carotis interna**
- ◆ **Contralateral plegia of limbs**
- ◆ **In dominant haemisphere - aphasia**
- ◆ **Diagnostics - CT of a head**
- ◆ **Diagnostics of vessels**
  - ◆ CT angiography
- ◆ **Endovascular treatment**
  - ◆ interventional radiology

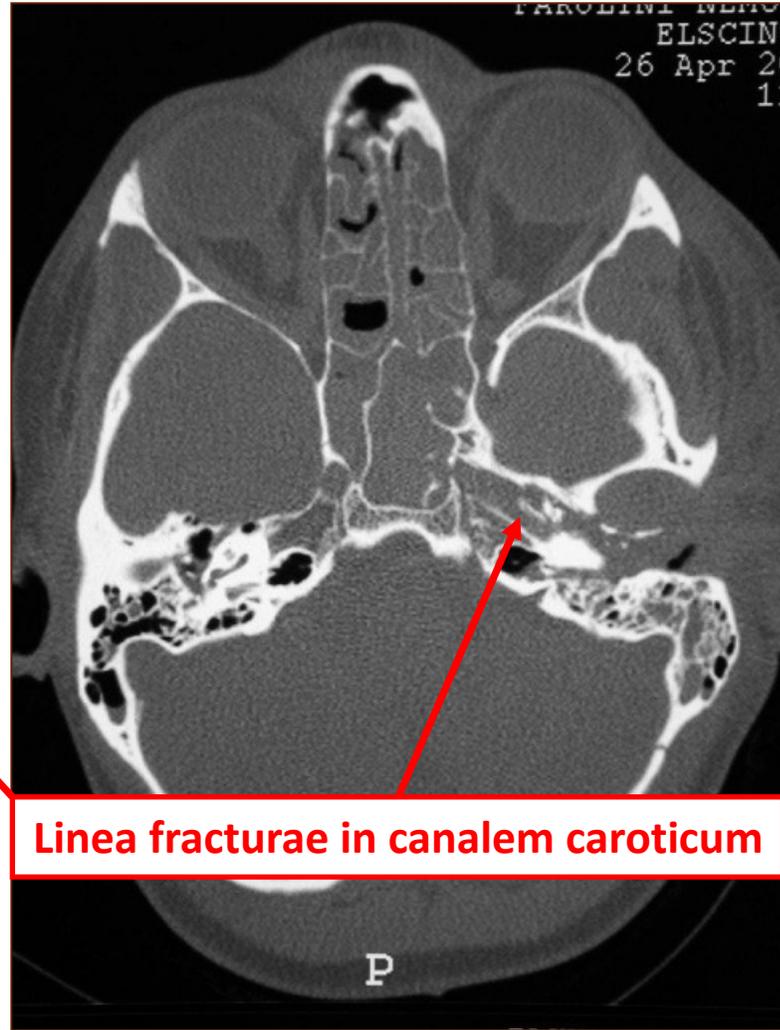
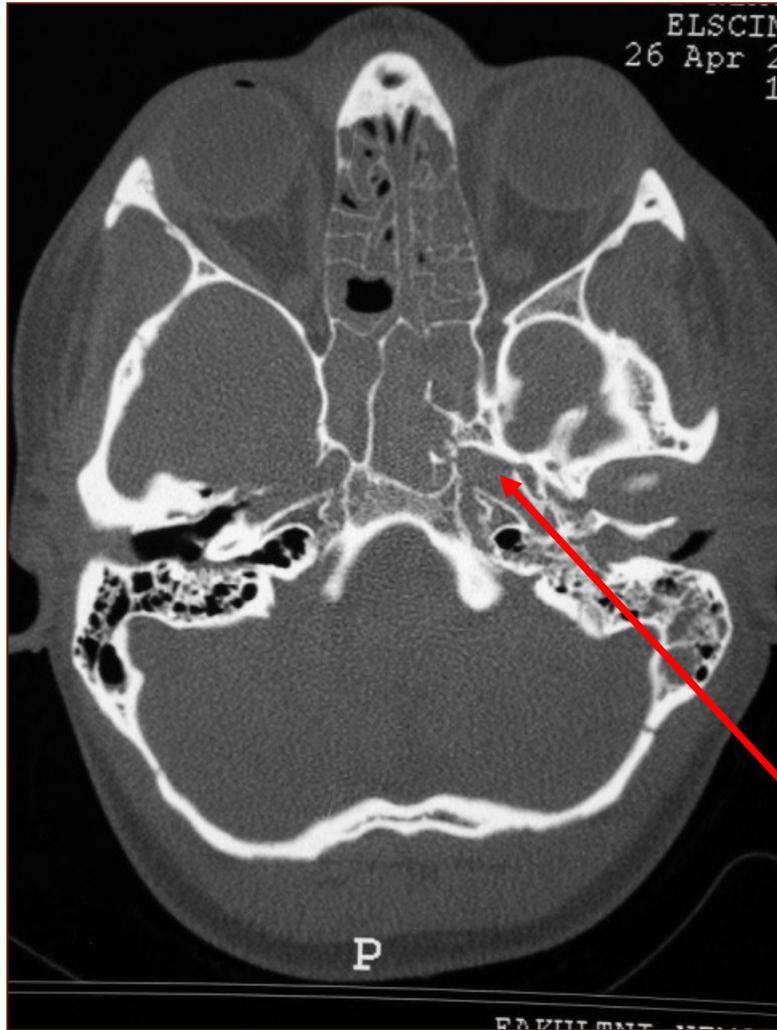


# canalis caroticus

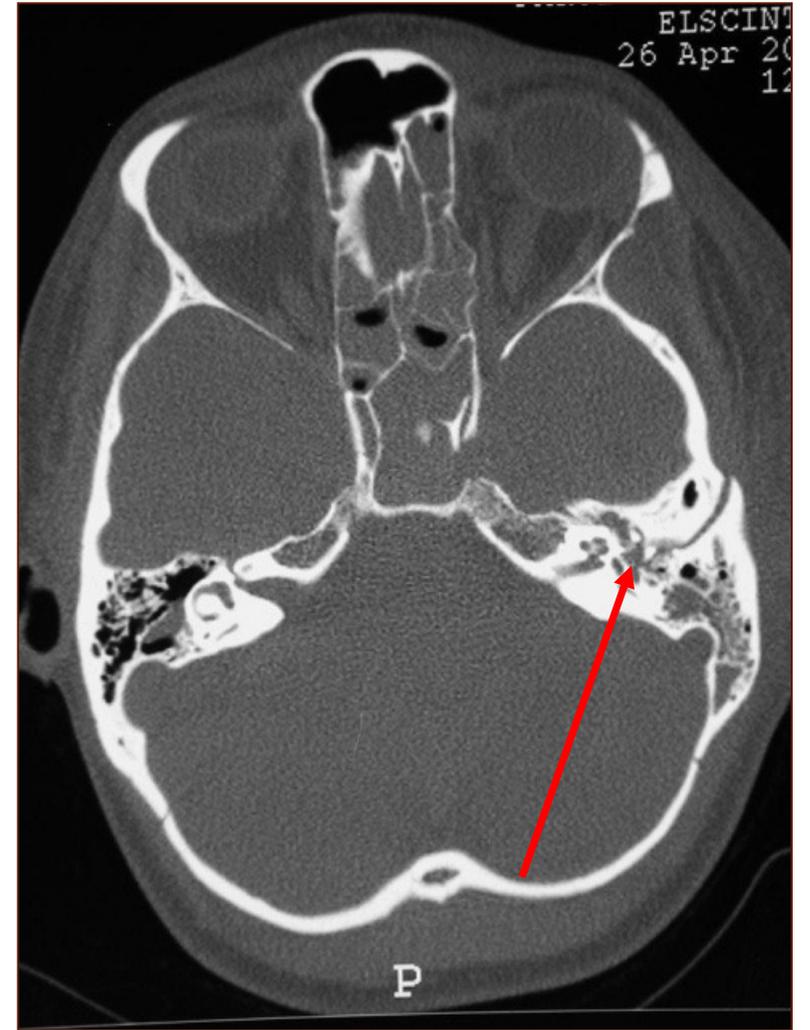


**a. carotis interna, pars carotica**

# Fractura ossis temporalis - CT



**Linea fracturae in canalem caroticum**

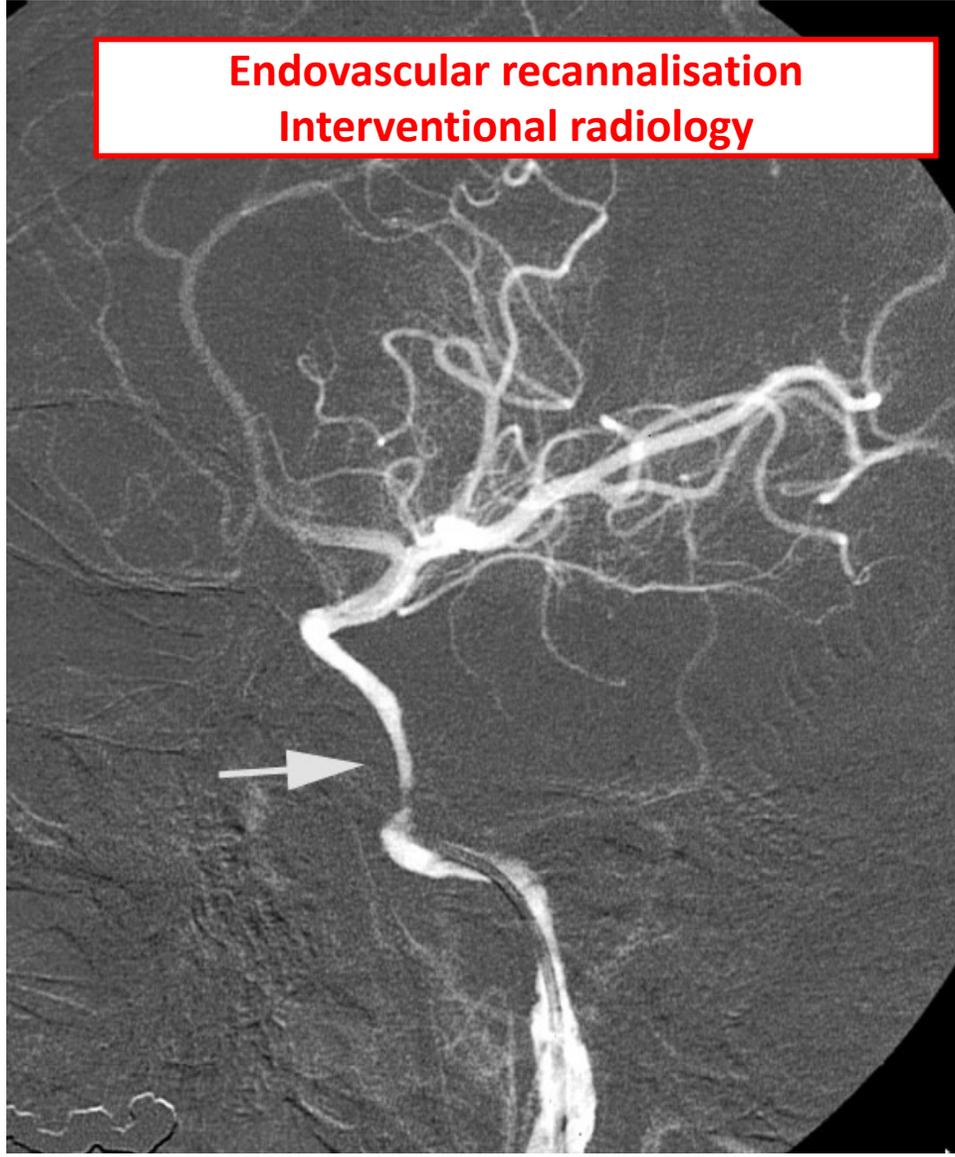


# Occlusio a. carotis interna - endovascular therapy

Occlusio a. carotis interna  
angiography

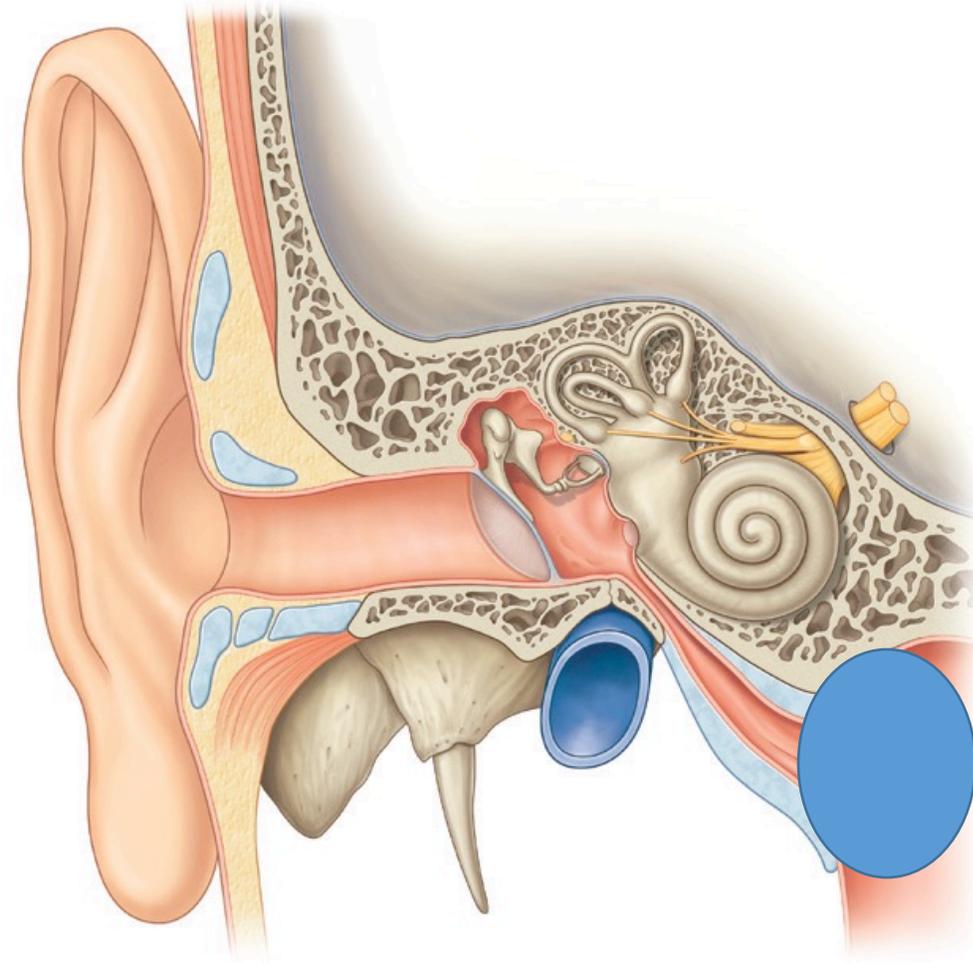


Endovascular recanalisation  
Interventional radiology



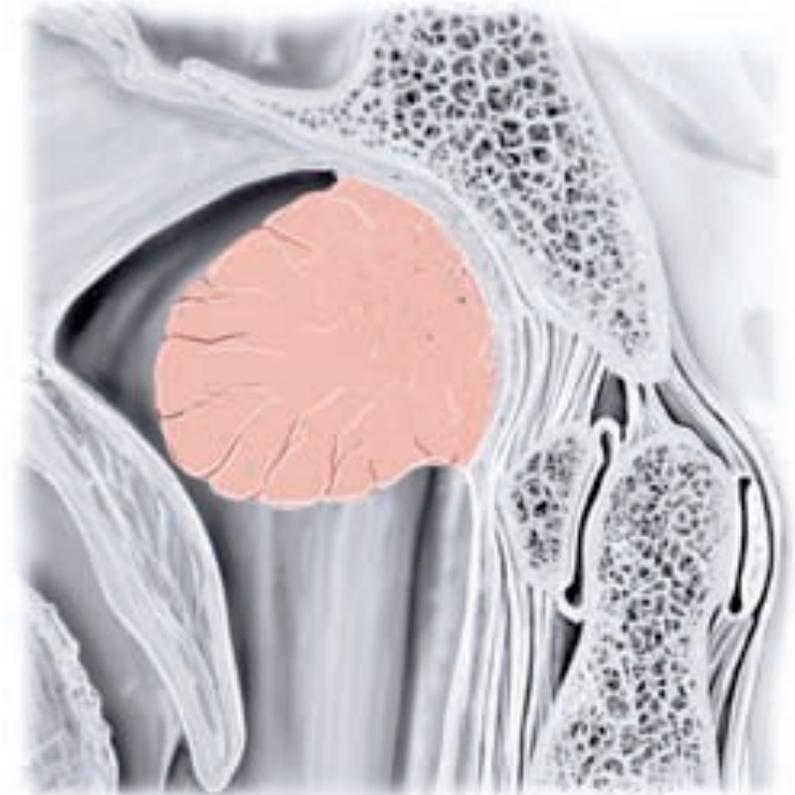
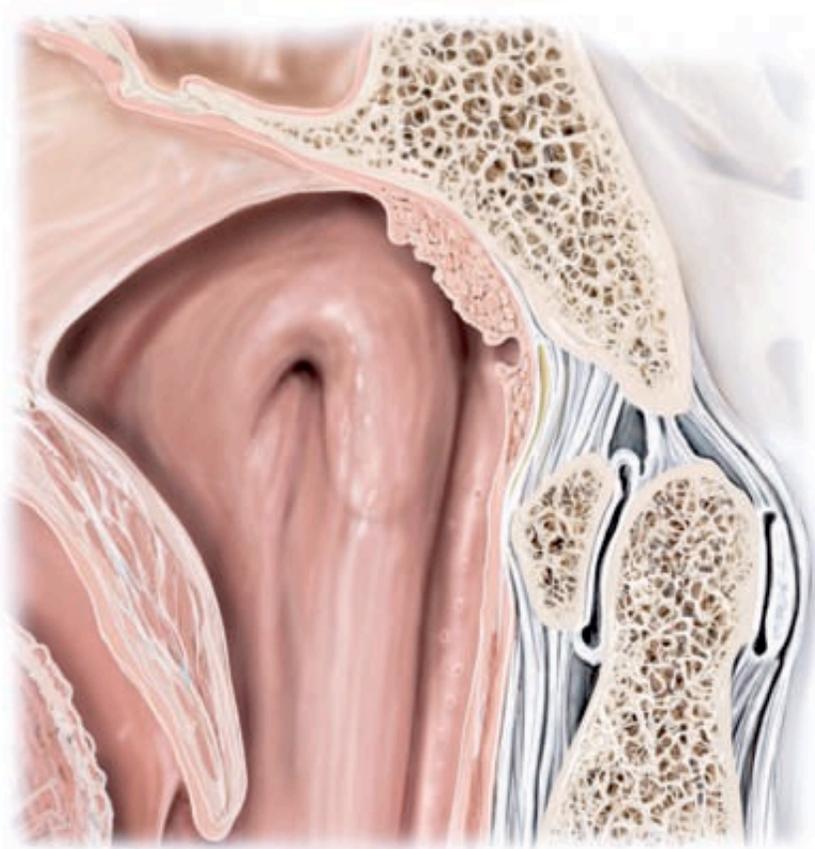
# tuba pharyngotympanica - obstruction

- ◆ Adenoid vegetation
- ◆ Hyperplasia of pharyngic tonsilla
- ◆ Frequent cause of otitis media in children



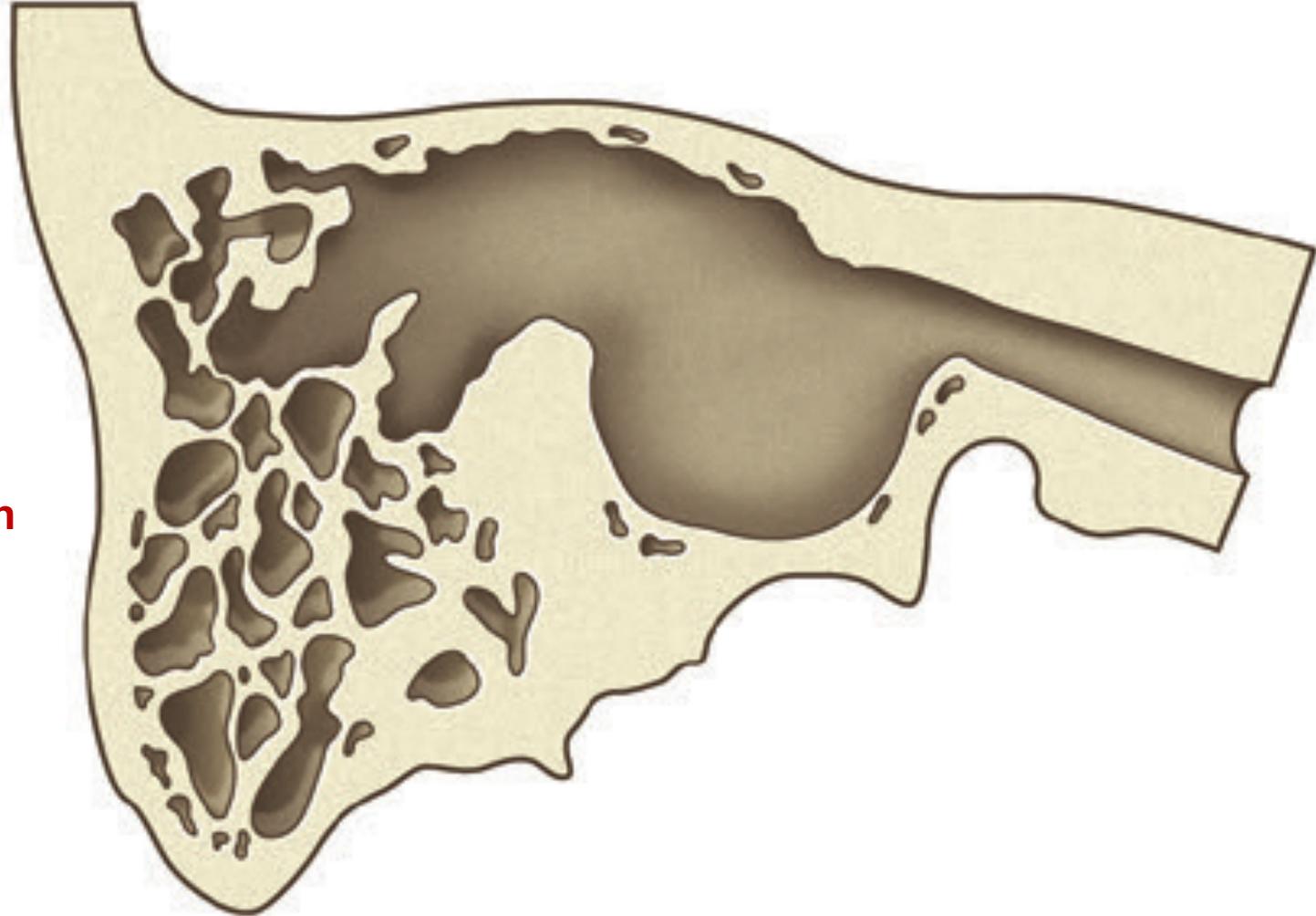
# tuba pharyngotympanica - obstruction

- ◆ Adenoid vegetation
- ◆ Hyperplasia of pharyngic tonsilla
- ◆ Frequent cause of otitis media in children



# Cavum tympani

- ◆ Occlusion of pharyngotympanic tube
- ◆ Loss of communication with pharynx
- ◆ Decreased air content
  
- ◆ Inflammation
- ◆ Acute otitis media
- ◆ Leads to
- ◆ Membrana tympani perforation -
- ◆ Spontaneous in untreated
- ◆ Paracentesis in treated, made by physician



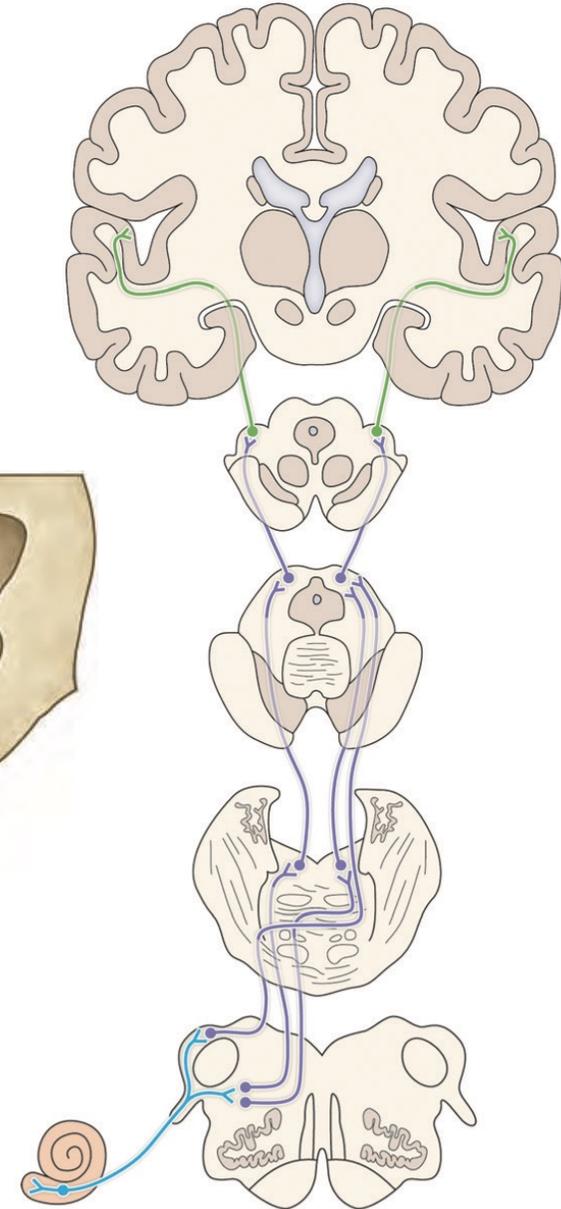
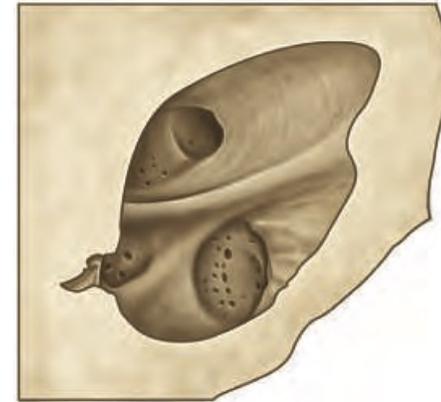
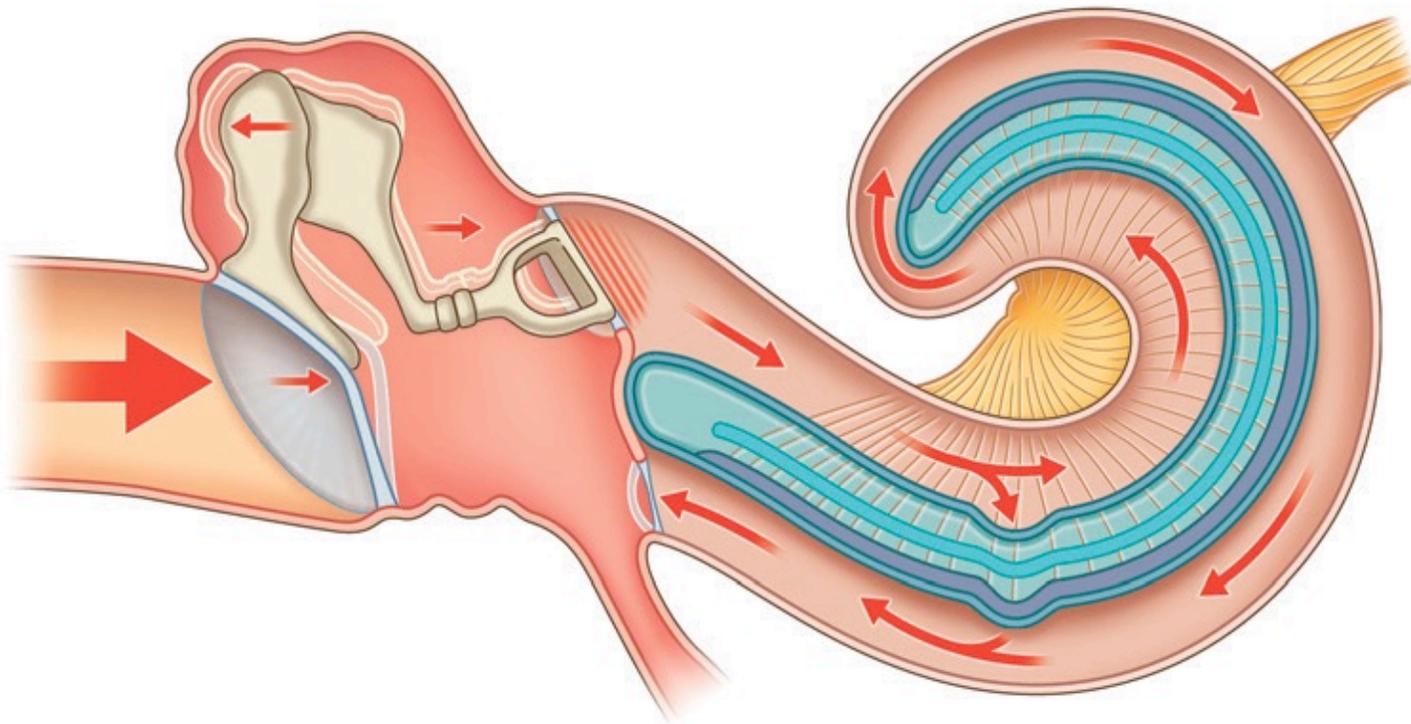
# Mastoid fractures are open fractures



**Fractura processus mastoideus**

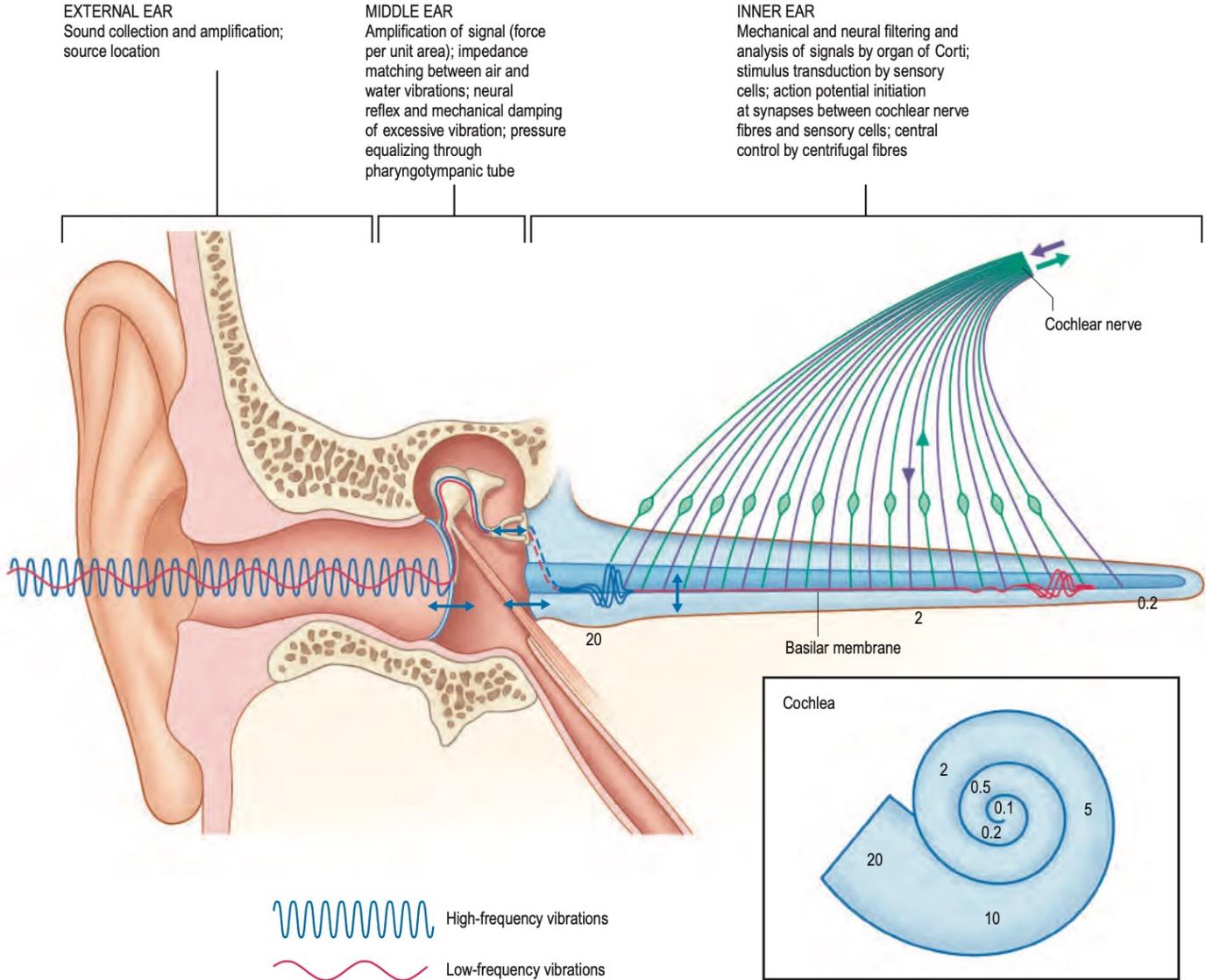
# Sound spread in organum cochleare

- ◆ **Conduction disorders of hearing**
- ◆ **Worsening of air conduction**
  - ◆ Inflammation, trauma, tumors
  - ◆ Otosclerosis stapes fixed to fenestra ovalis
- ◆ **Persistent bony conduction**
  - ◆ Resonance of temporal bone



# Frequency distribution of special sensation of sound

♦ **Resonance frequency depends on diameter of cochlear tube**



# Clinically important aspects of the temporal bone anatomy