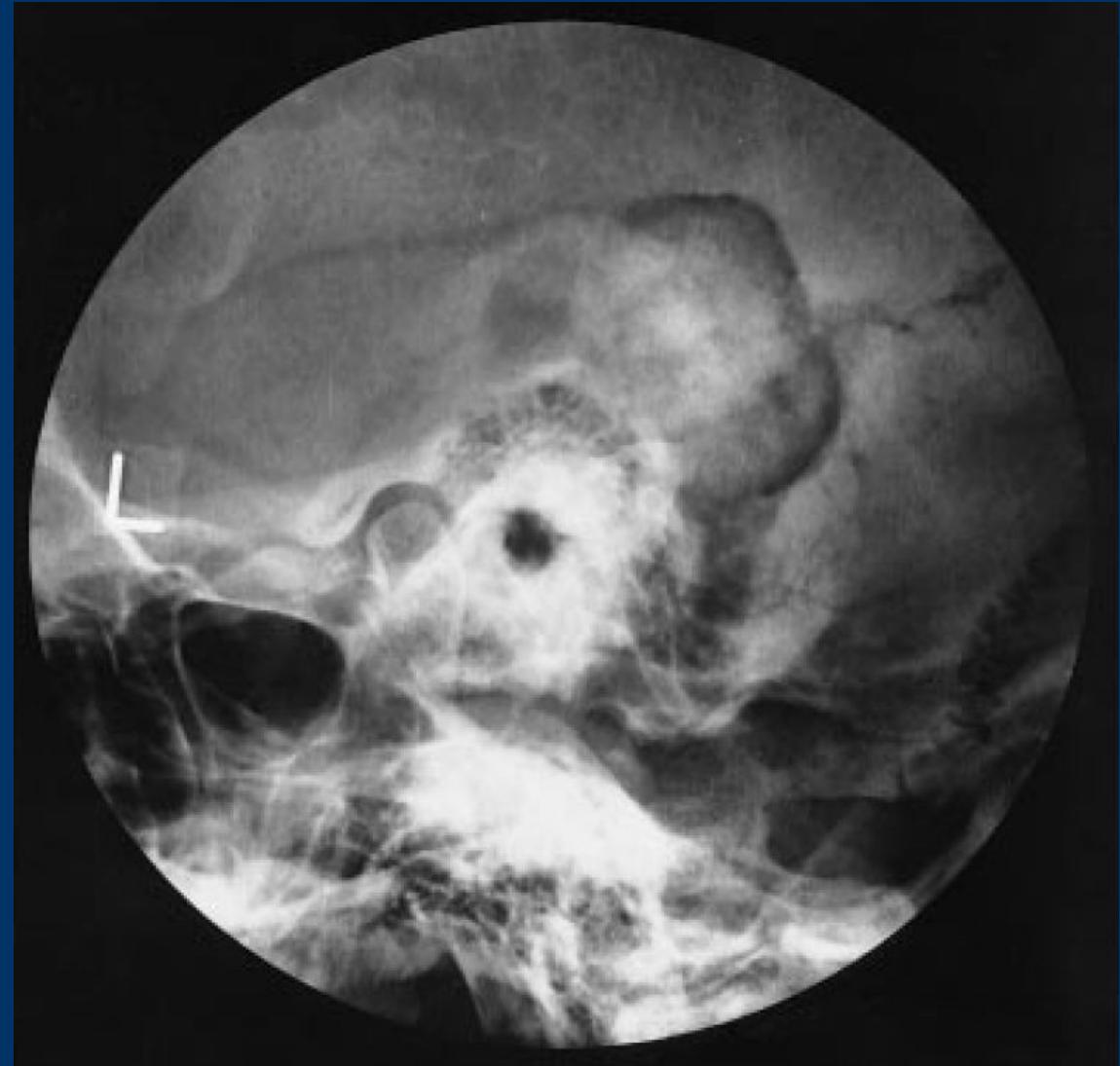
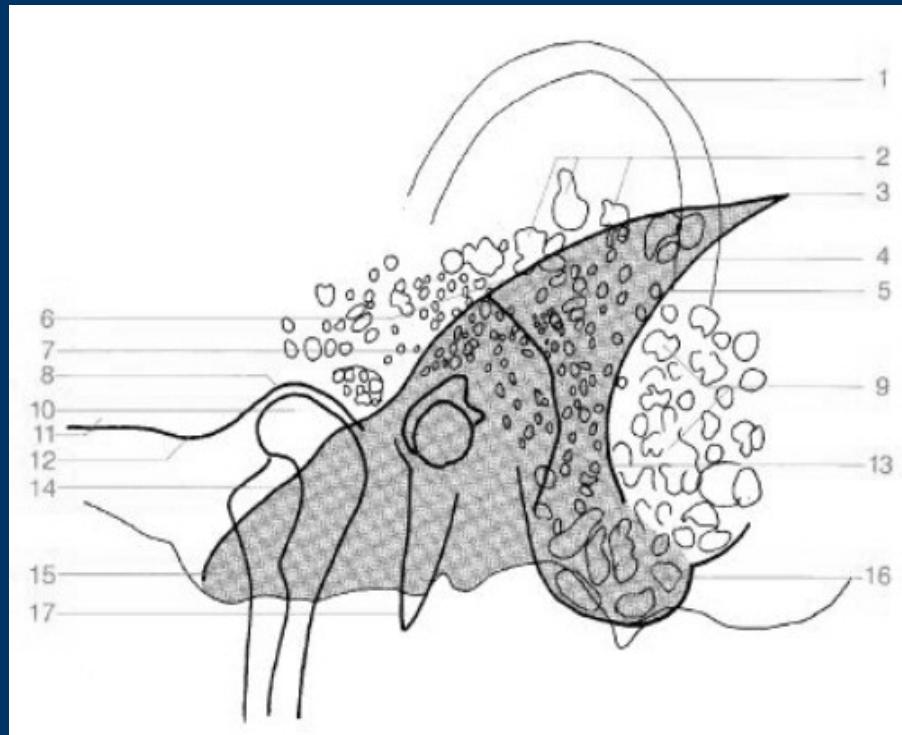


*Imaging of the ear – X ray of the temporal bone,
Schuller's projection*

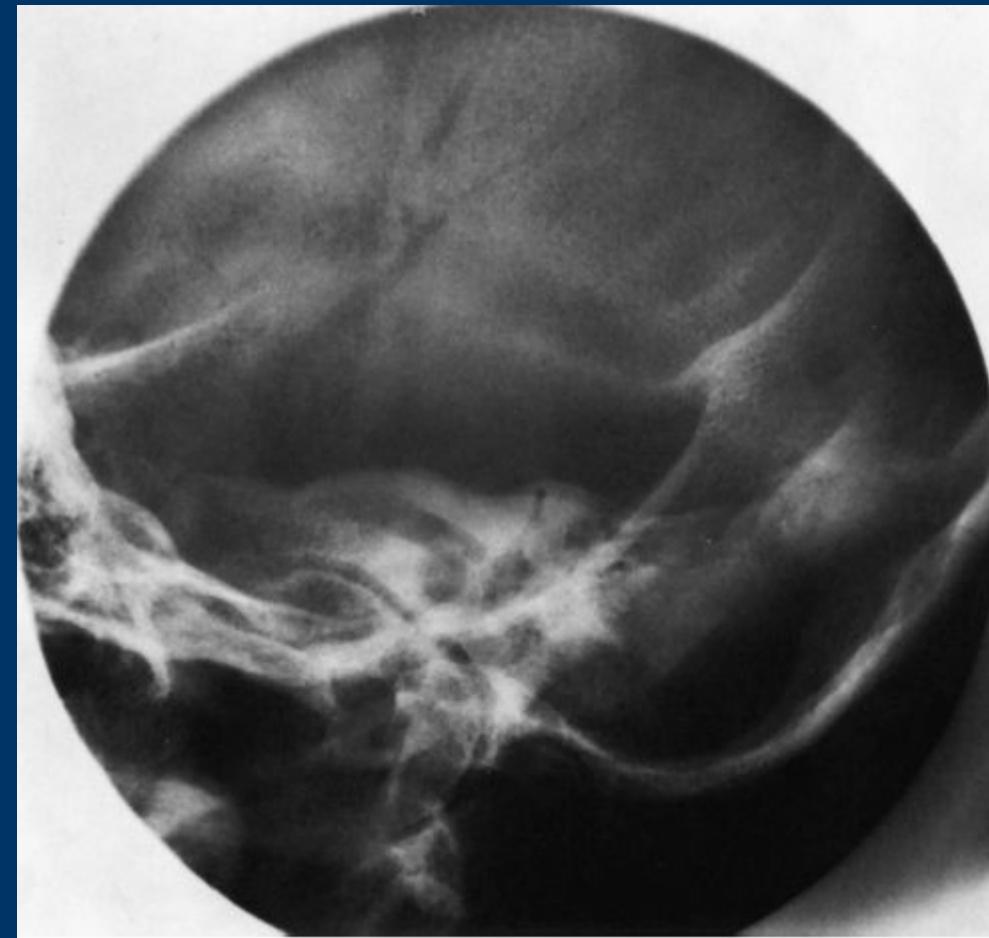


Imaging of the ear – X ray of the temporal bone, Schuller's projection

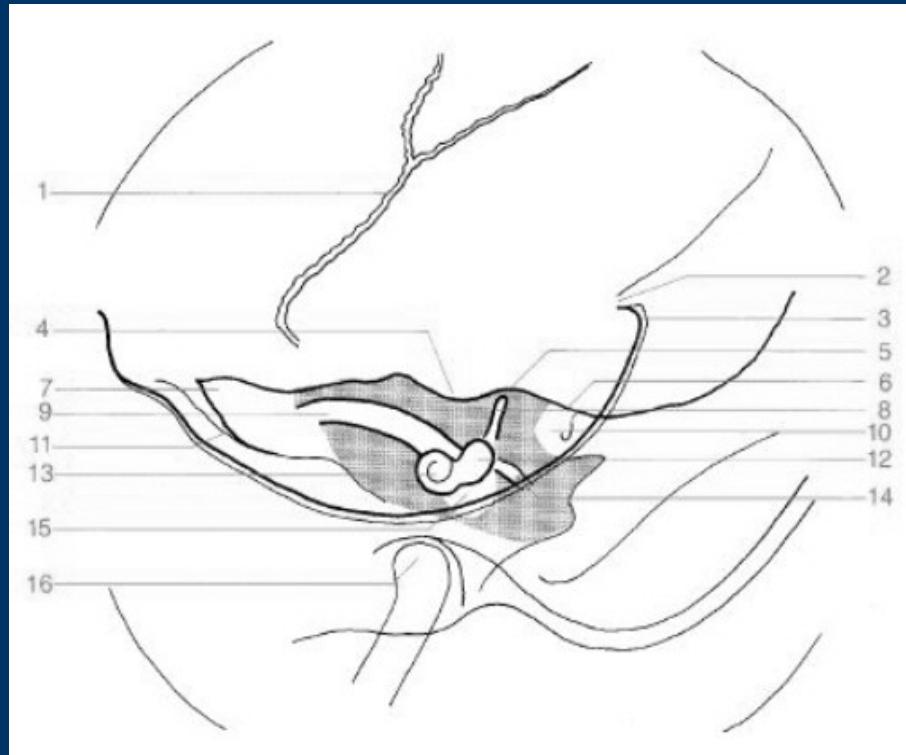


- 1. Auricula
- 2. Cellulae squamosae
- 3. Angulus Citelli
- 4. Cellulae periantralis
- 5. Sulcus sinus sigmoidei
- 6. Margo anterior partis petrosae
- 7. Antrum mastoideum
- 8. Fossa mandibularis, Facies articularis
- 9. Cellulae marginalis
- 10. Mandibula, Processus condylaris
- 11. Os temporale, Processus zygomaticus
- 12. Tuberculum articulare
- 13. Cellulae retrofacialis
- 14. Meatus acusticus internus et externus
- 15. Apex partis petrosae
- 16. Processus mastoideus, Cellulae mastoideae
- 17. Processus styloideus

*X ray of the temporal bone
Stenvers' projection*

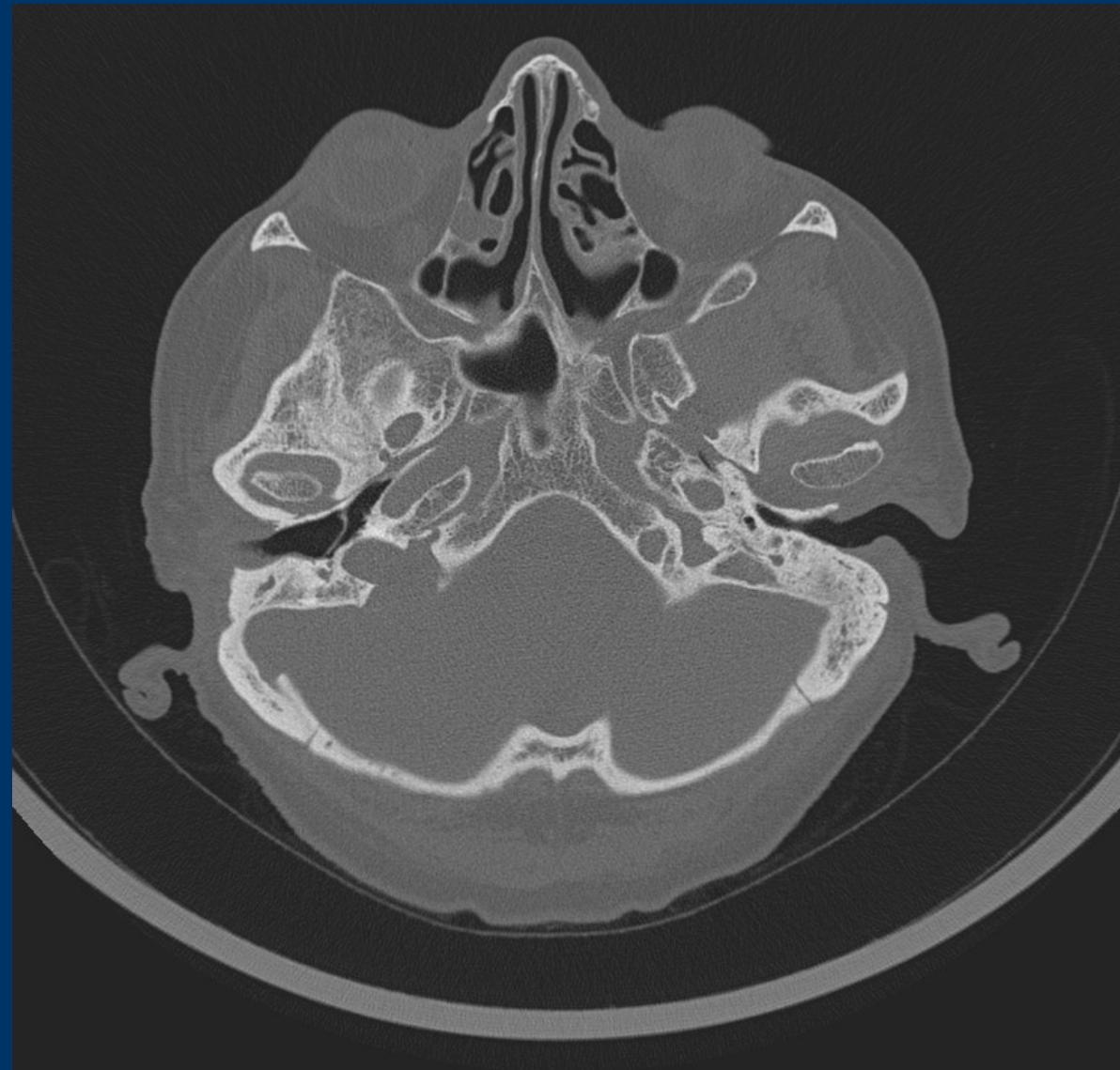


X ray of the temporal bone Stenvers' projection

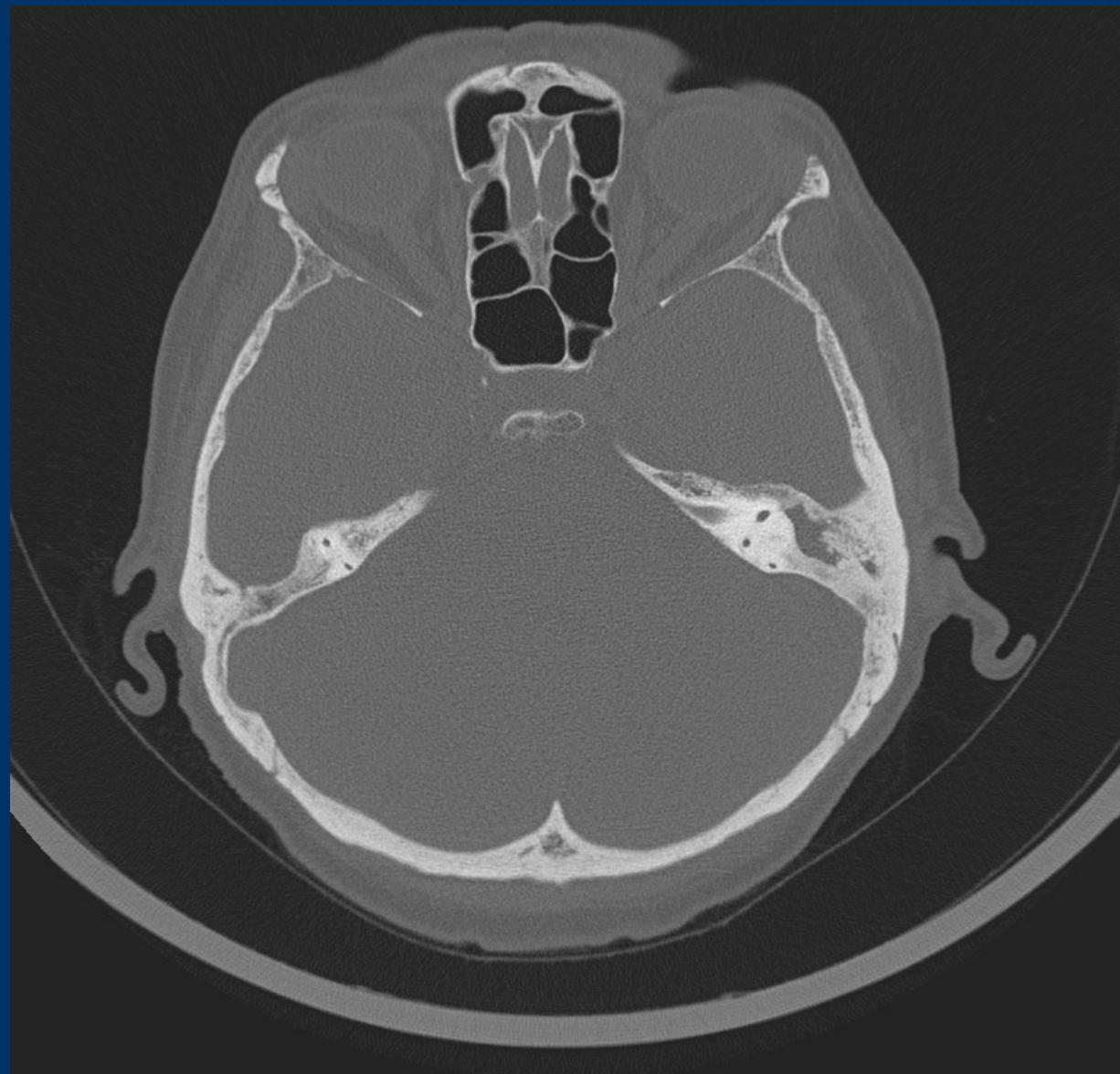


- 1. Sutura sphenosquamosa
- 2. Protuberantia occipitalis interna
- 3. Crista occipitalis interna
- 4. Fossa subarcuata
- 5. Eminentia arcuata
- 6. Tegmen tympani
- 7. Apex partis petrosae
- 8. Canalis semicircularis anterior
- 9. Meatus acusticus internus
- 10. Antrum mastoideum
- 11. Fissura sphenopetrosa
- 12. Vestibulum
- 13. Cochlea
- 14. Canalis semicircularis lateralis
- 15. Cavitas tympanica
- 16. Mandibula, Processus condylaris

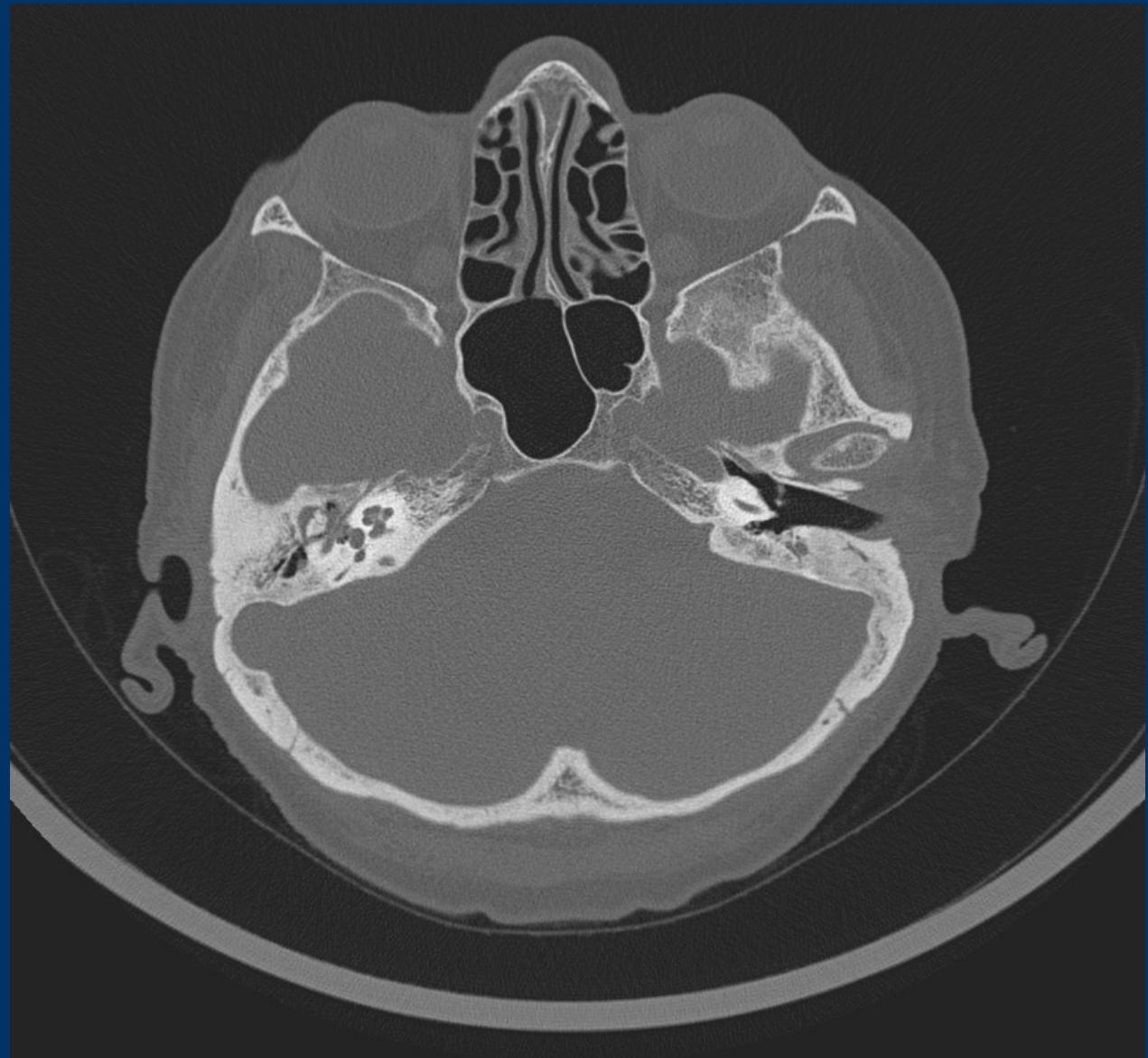
CT of the temporal bone – tympanic membrane



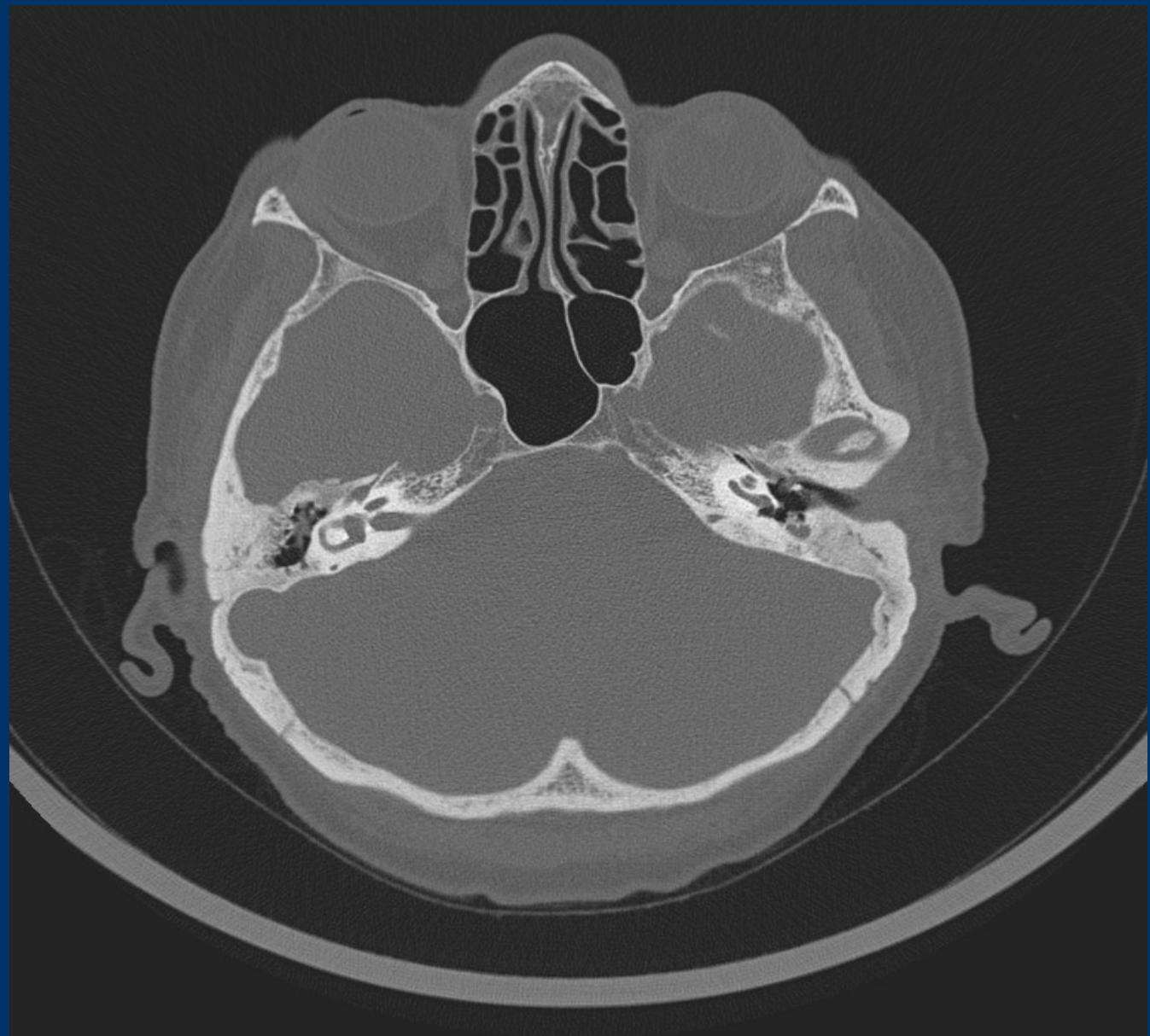
Superior semicircular canal



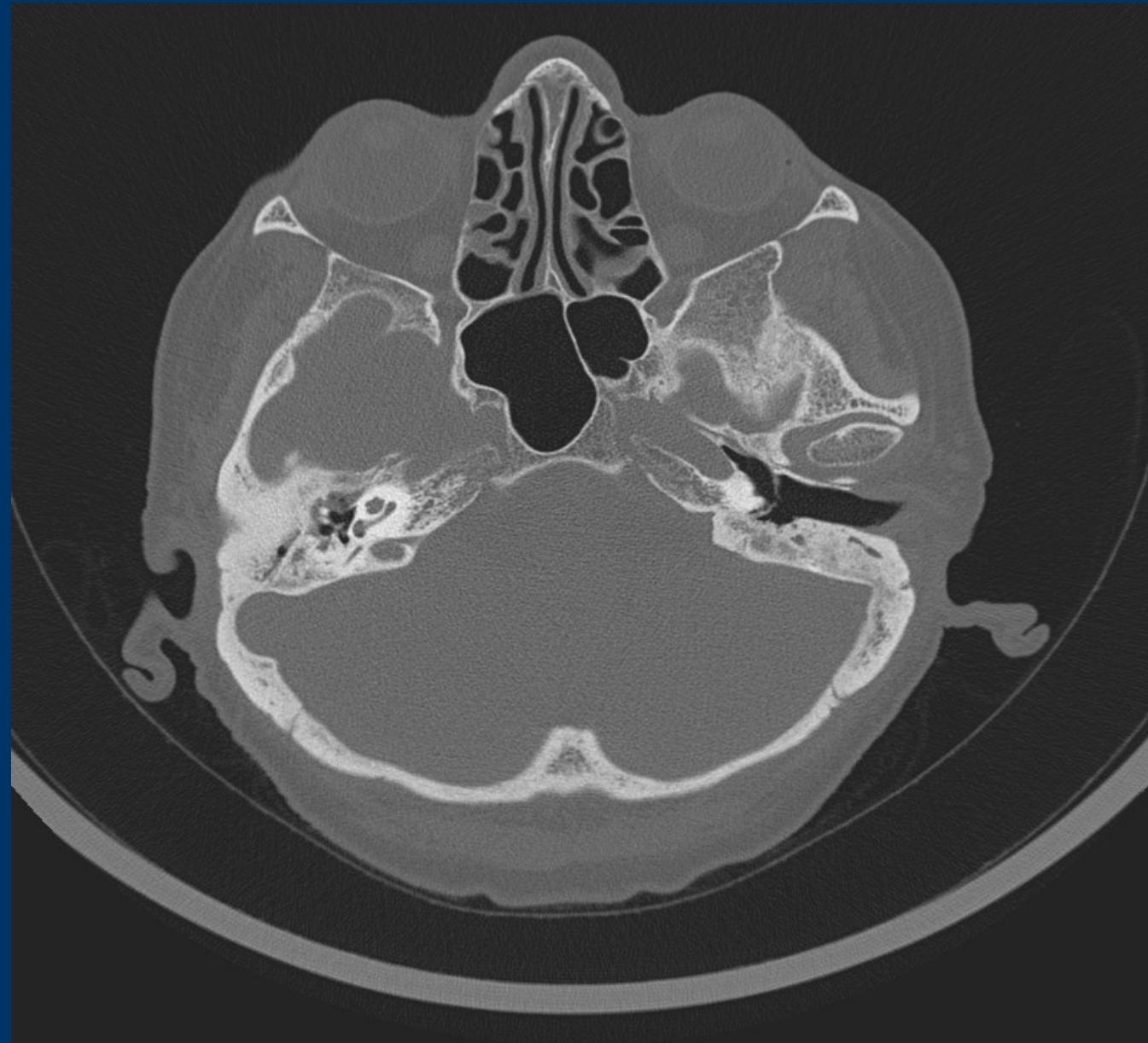
Malleus, incus, articulation



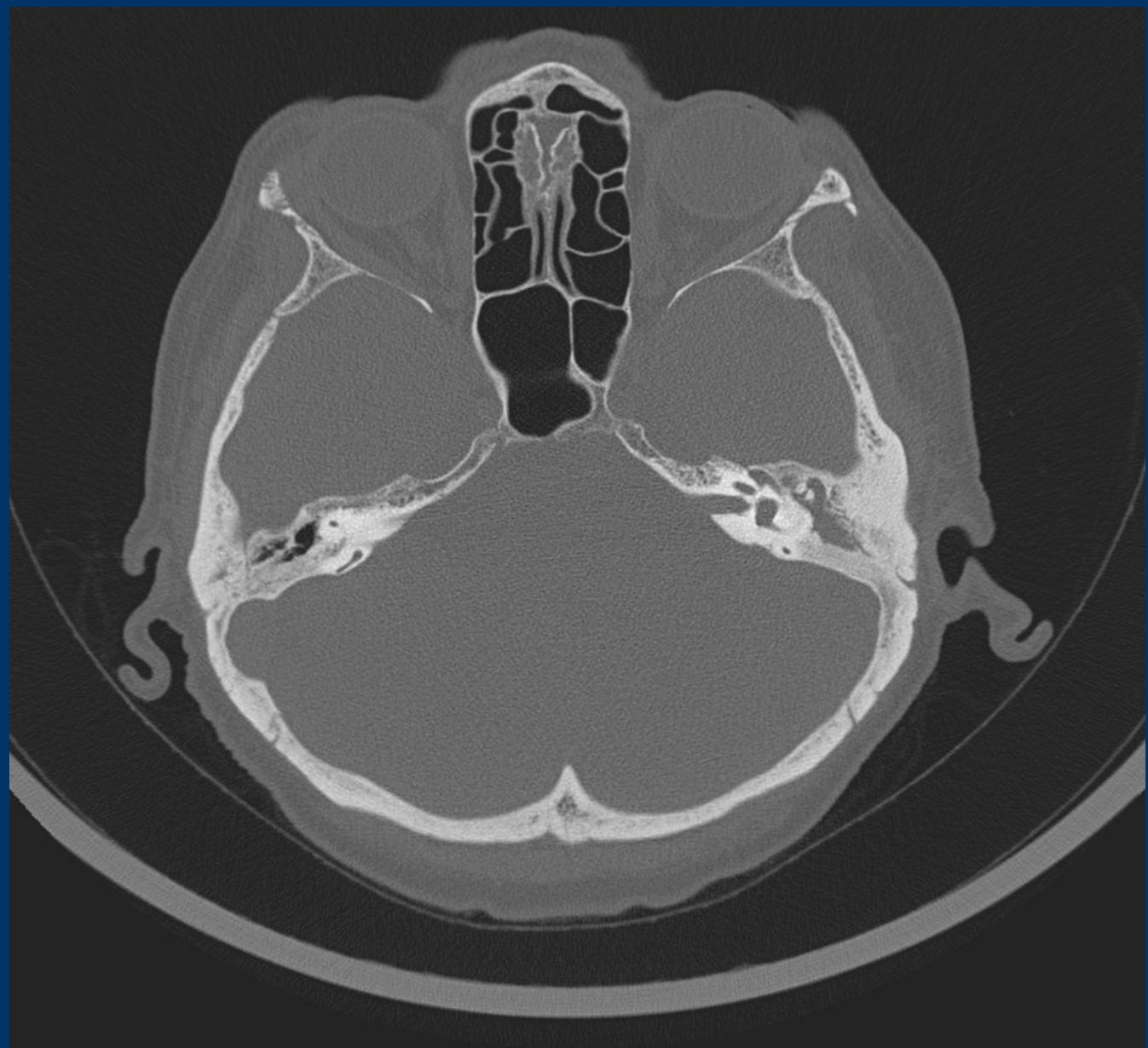
Lateral semicircular canal



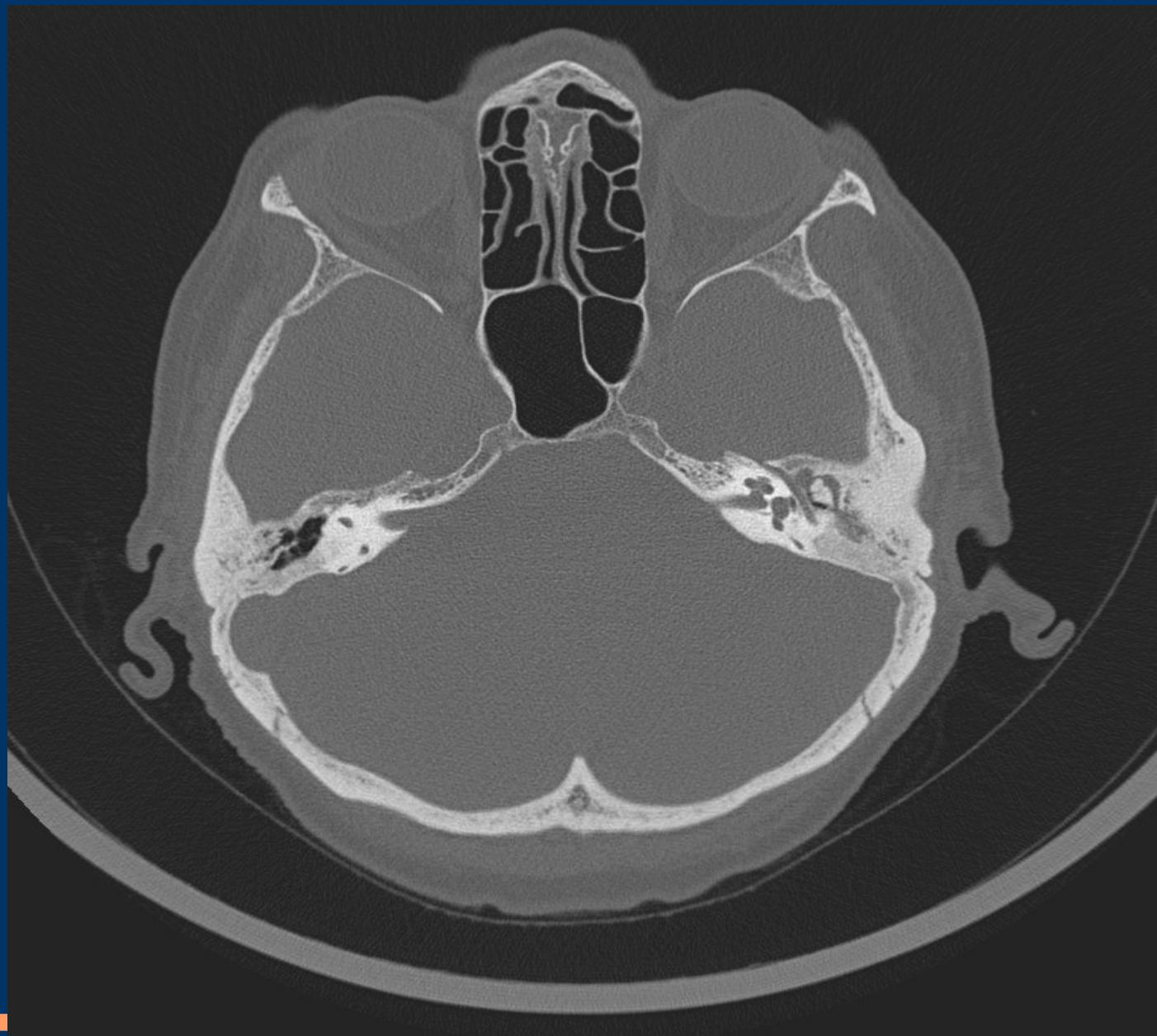
The cochlea



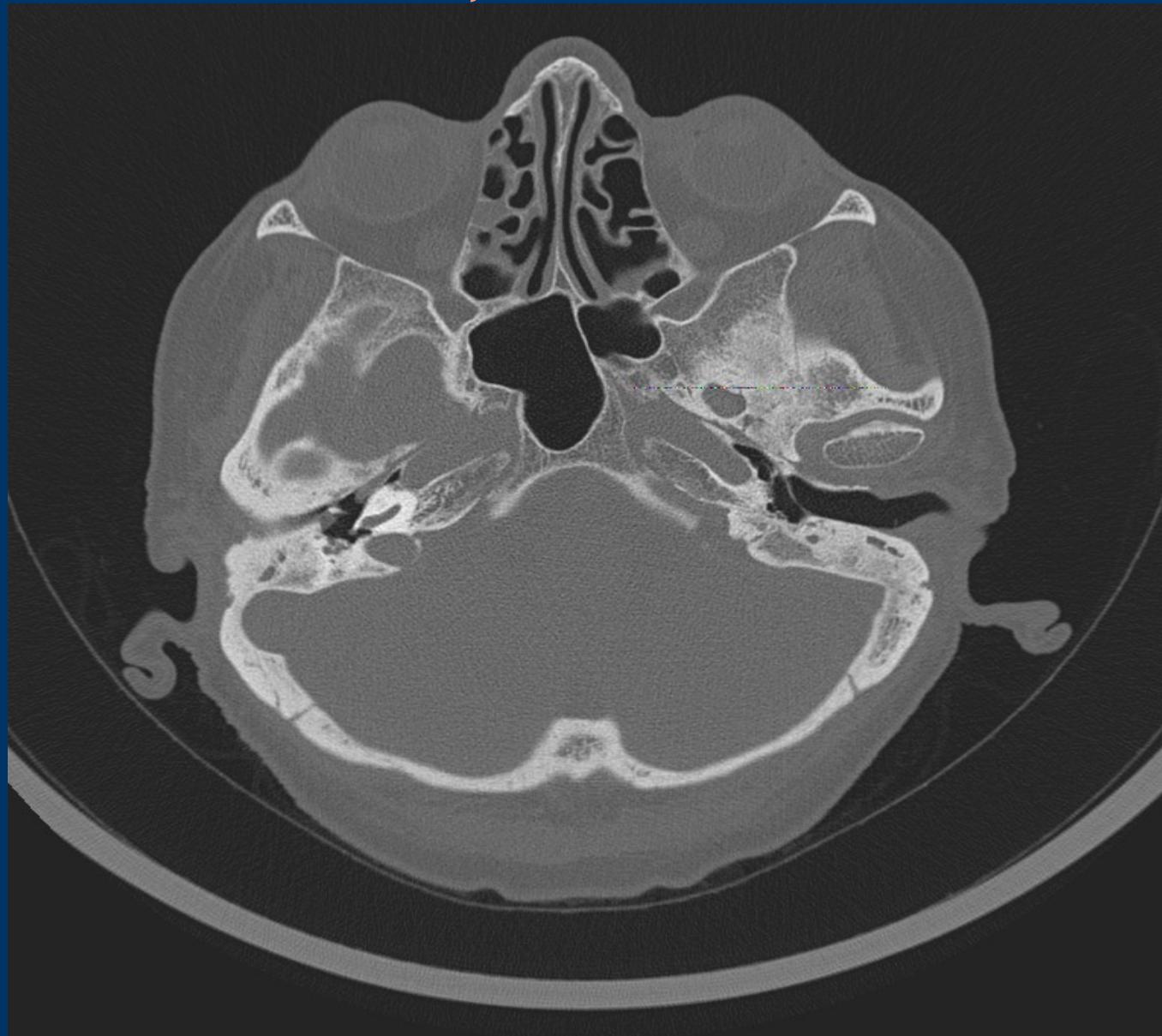
Posterior semicircular canal



The vestibule, cochlea, Fallopian canal, ossicules



Basal turn of the cochlea, round window



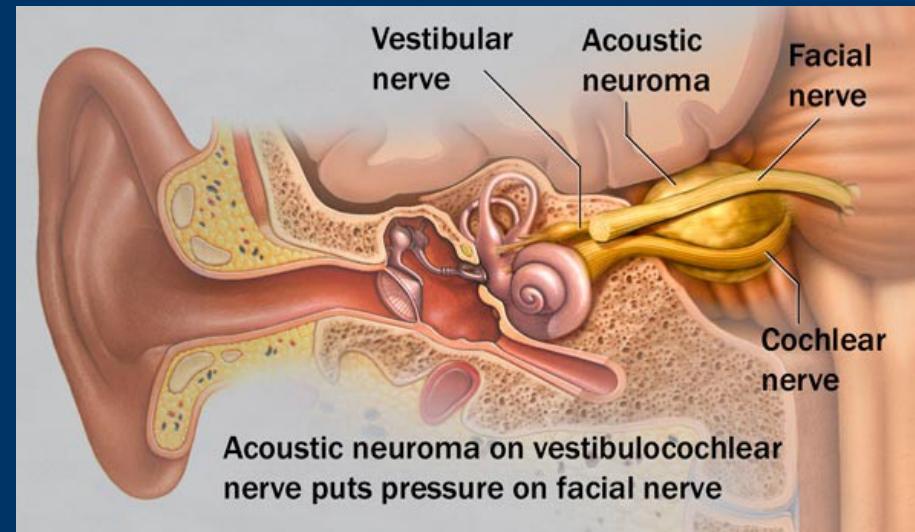
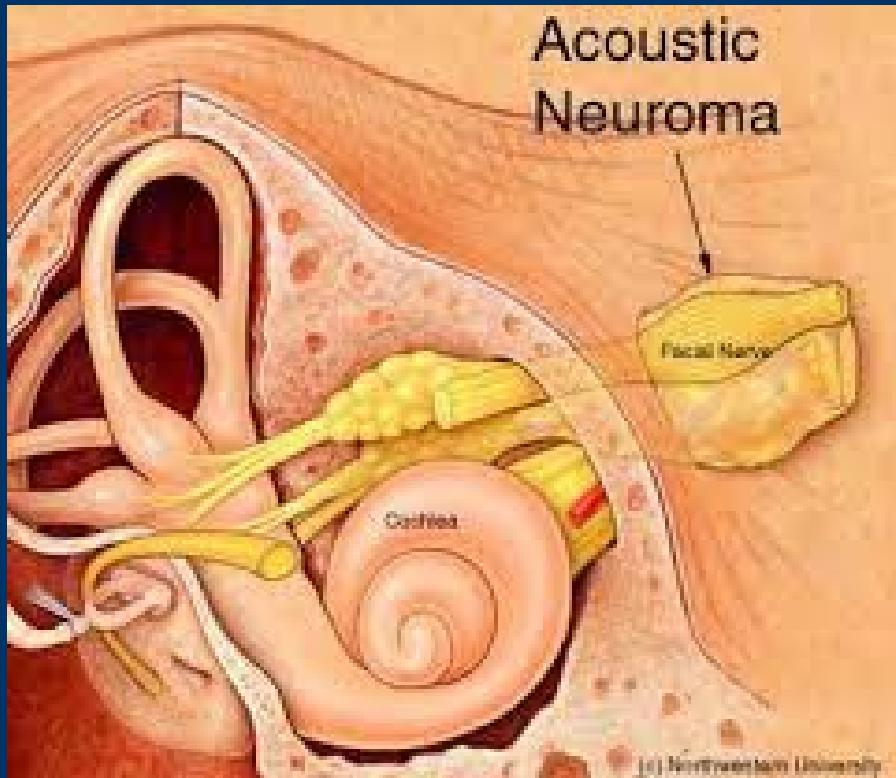
Magnetic resonance imaging



- T1-weighted MRI after i.v. contrast shows left-sided mastoiditis and subtotal, thrombotic occlusion of the transverse and sigmoid sinus (*)

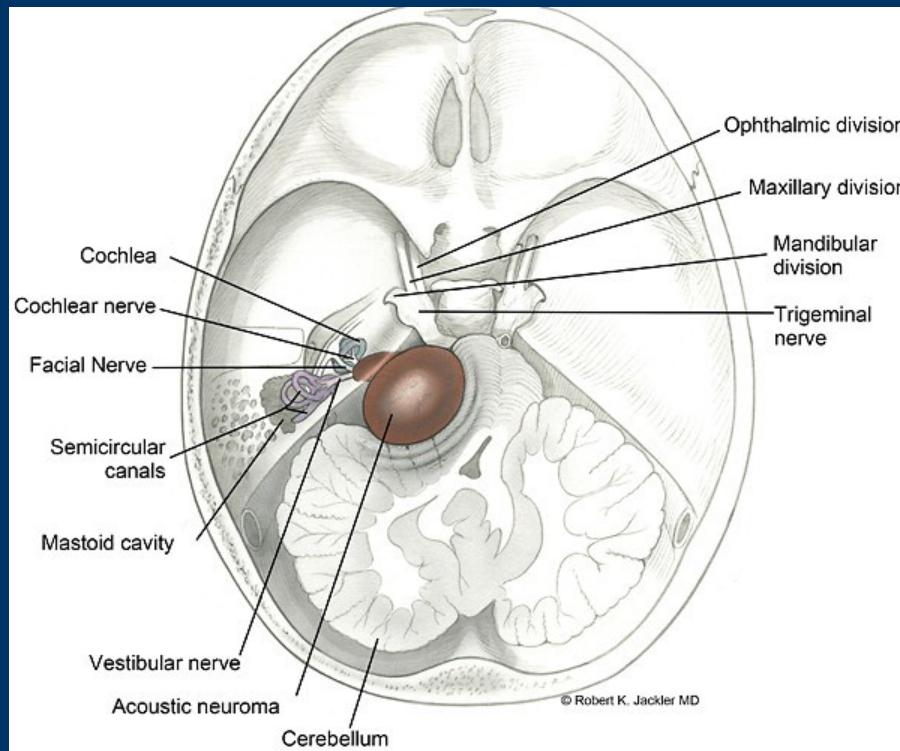
Schwannoma = acoustic schwannoma

- In the internal ear canal
- in the ponto-cerebellar angle



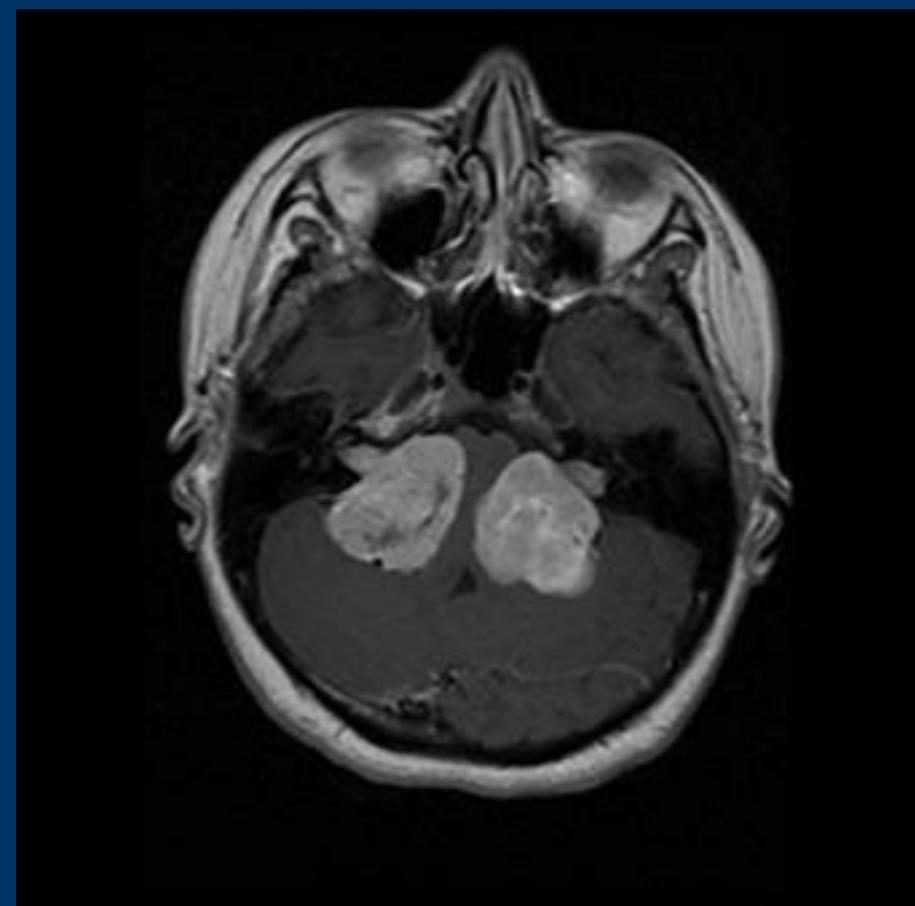
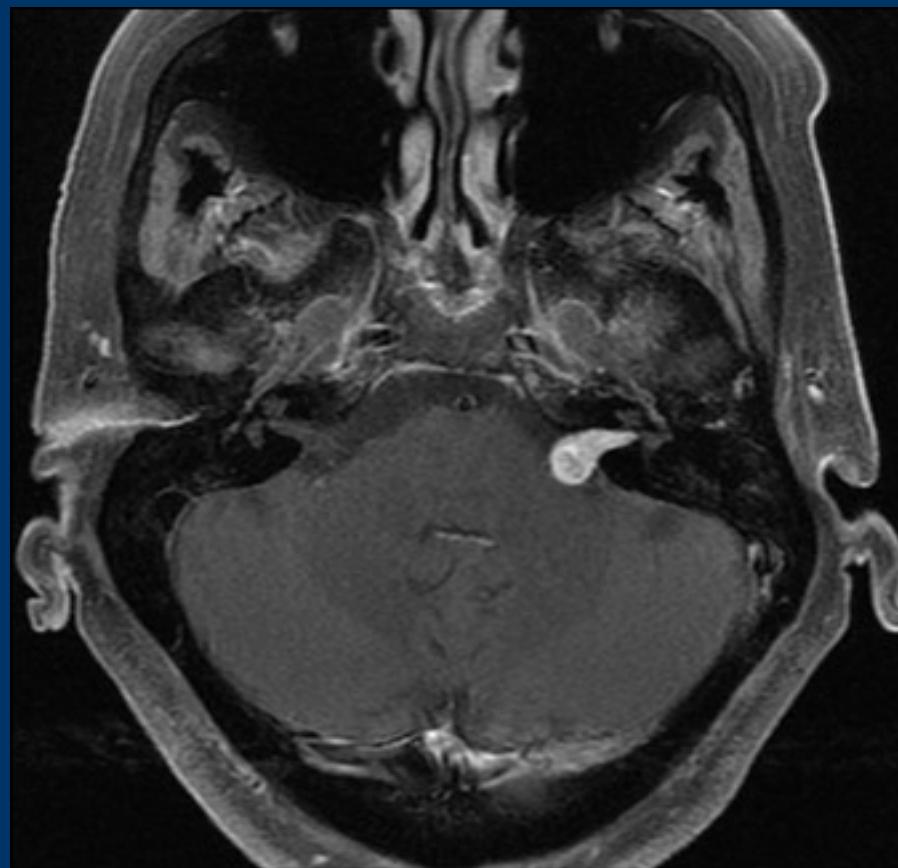
Schwannoma

- Big schwannoma with symptoms of pressure of the cerebellum and 4th ventricle



- Single side
- Both sides in neurofibromatosis-2 (both sides schwannomas, cafe-au-lait stains on the skin, meningiomas)

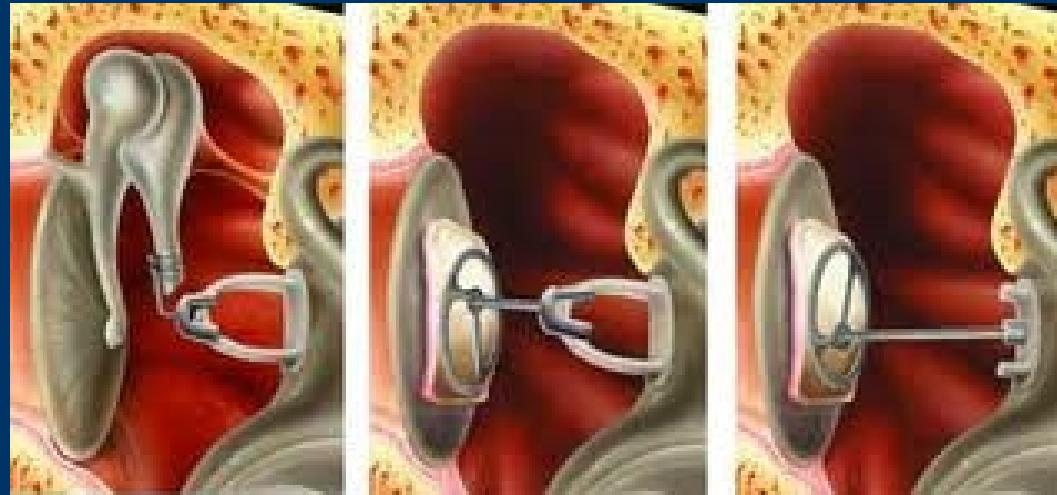
Schwannoma



Hearing prosthesis and auditory rehabilitation

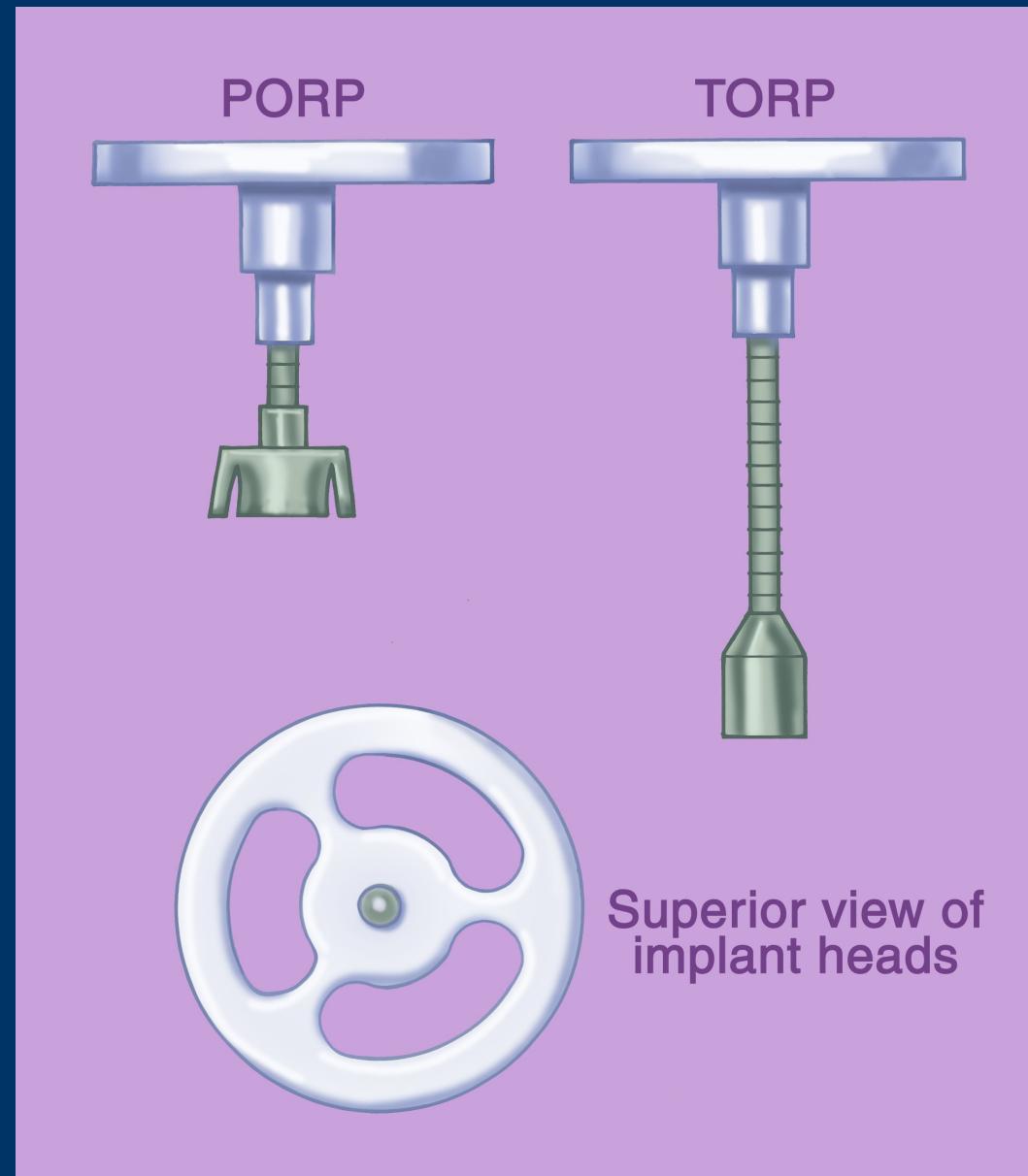


PORP, TORP



- Partial ossicular replacement prosthesis (short columella)
- Total ossicular replacement prosthesis (long columella)

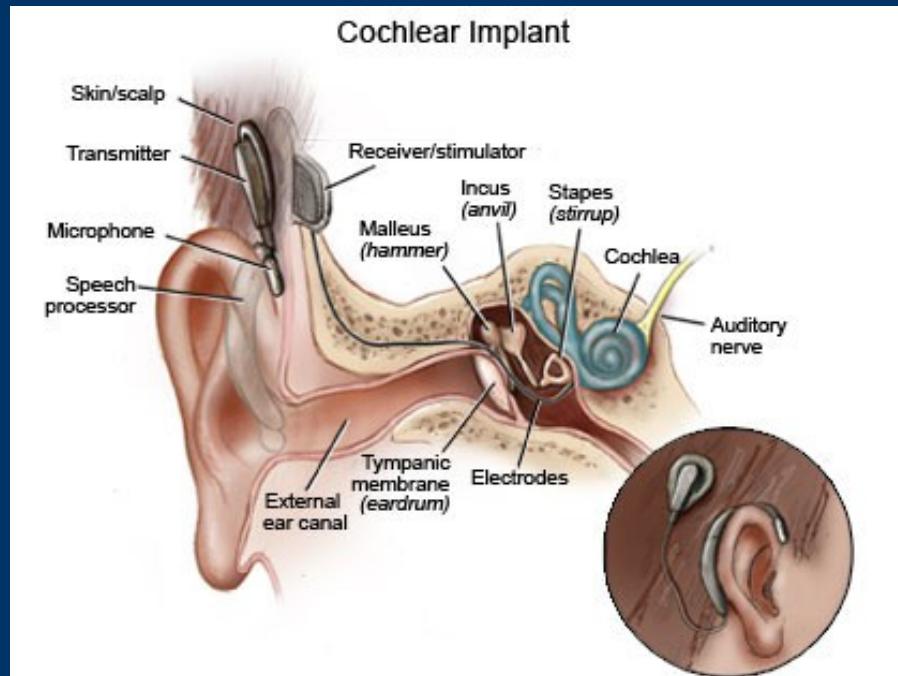
PORP, TORP



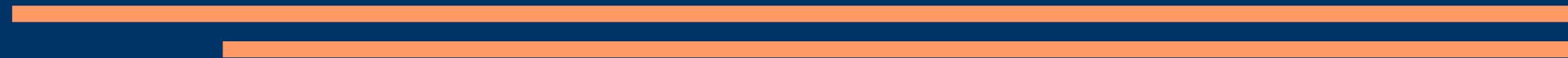
Hearing aid (HA)



Cochlear implant



Auditory brainstem implant



Electrodes



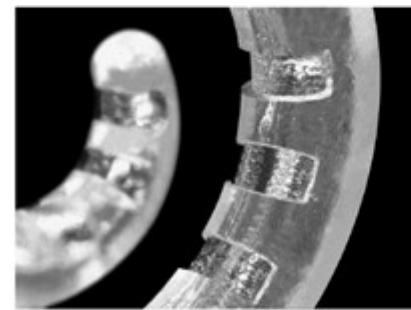
1a.



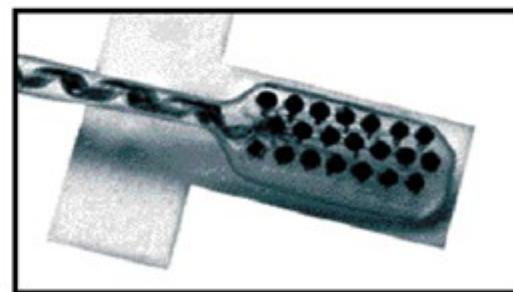
1c.



1e.

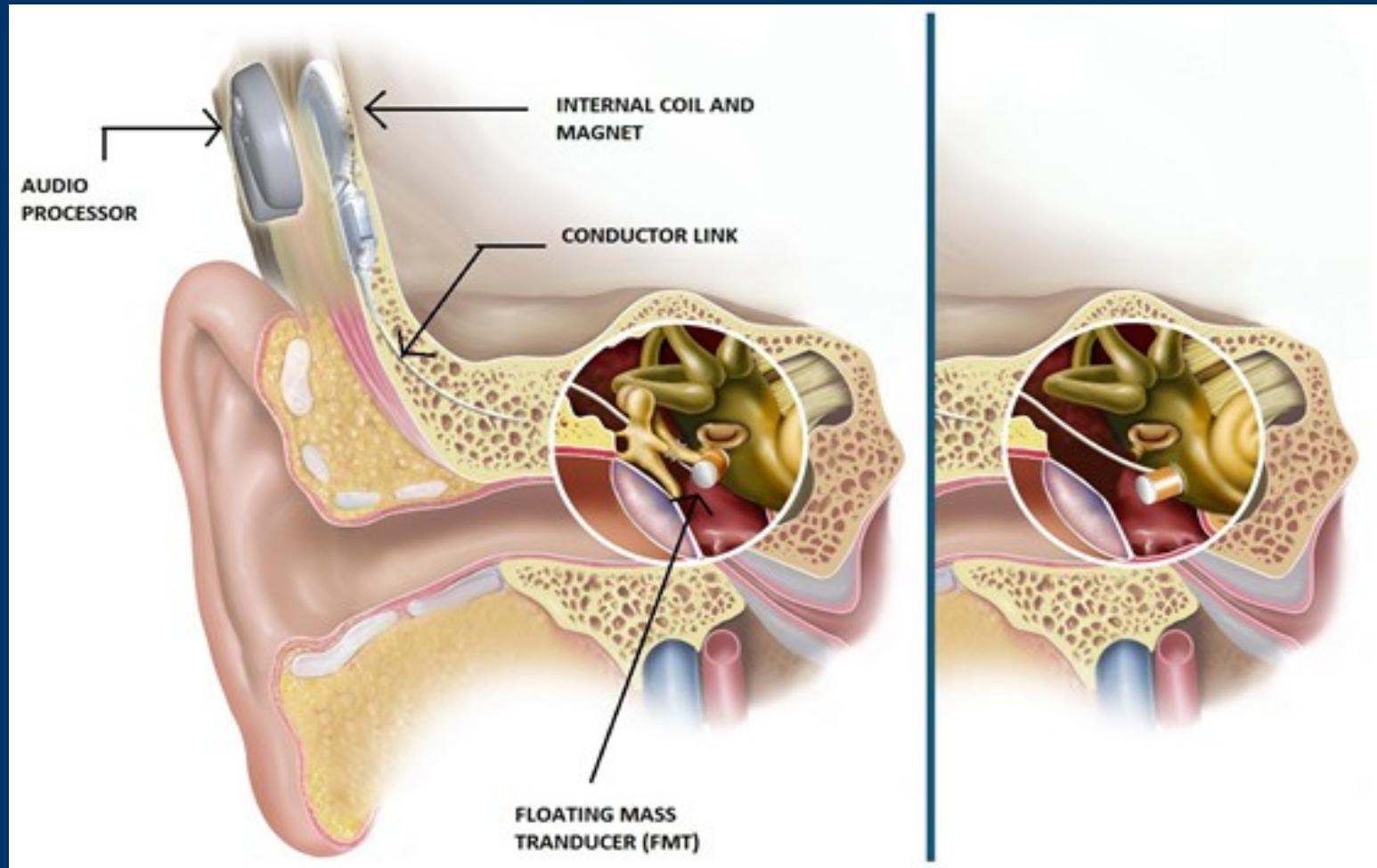


1b.



1d.

Middle ear implant (MEI)



MEI Medel

