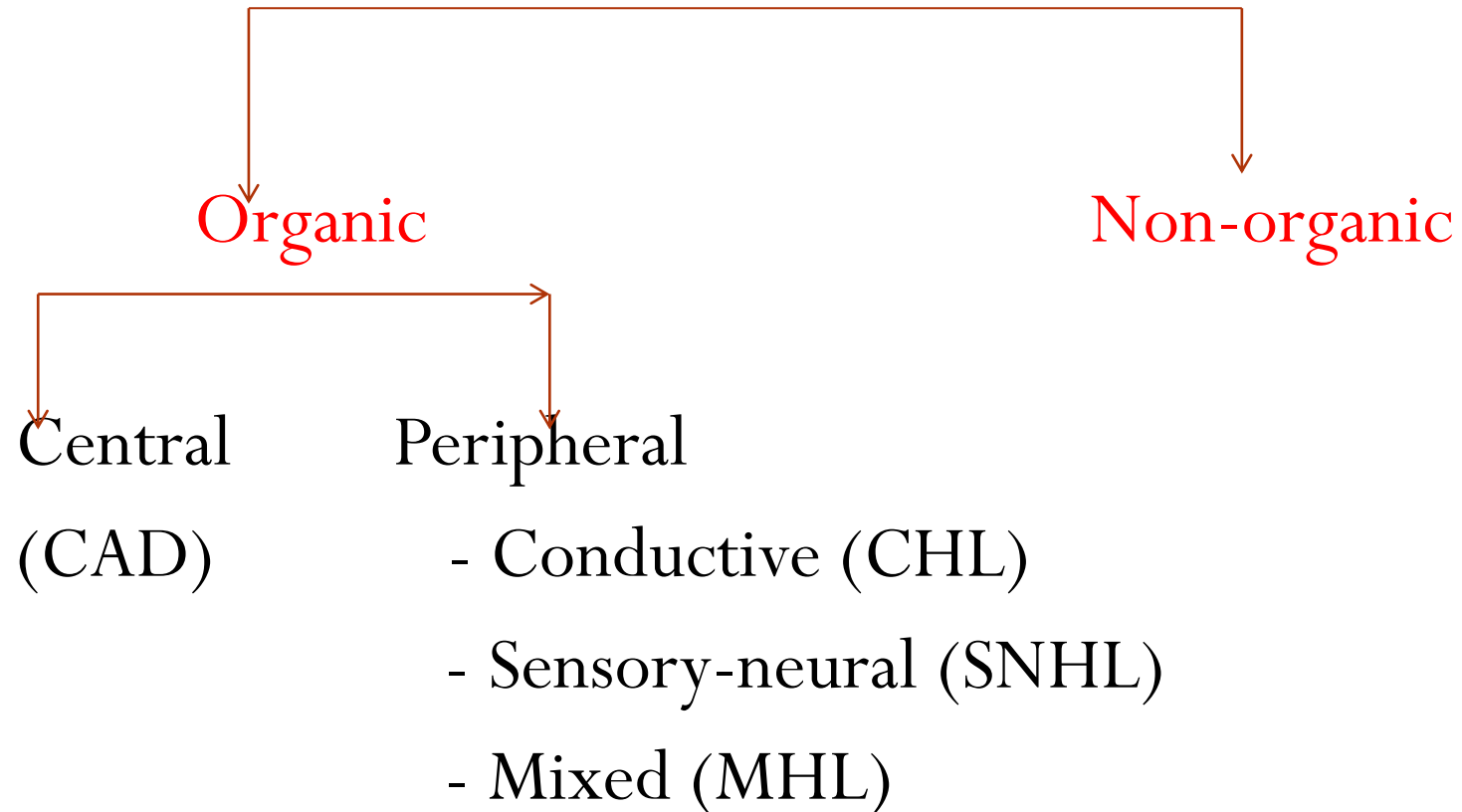


Recap of different types and causes of hearing loss

Types of Hearing loss



Organic Hearing Loss

CHL

- It refers to hearing loss resulted from any damage or lesion to the conductive mechanism (OE, ME).
- CHL can be revealed spontaneously, treated surgically or medically, therefore, **it's reversible** usually.

OE problems that might cause CHL

- Atresia
- Collapsed ear canal
- Impacted cerumen
- Foreign body
- Bony growths
- Otitis externa
- TM perforation
- Tympanosclerosis

ME problems that might cause CHL

- Negative ME pressure
- Otitis media
- Otosclerosis
- Ossicular discontinuity
- Cholesteotoma

SNHL

- Refers to hearing loss resulted from the damage of the sensori-neuarl mechanisms.
- It results from disorders of the cochlea, 8th cranial nerve or cochlear nuclei.
- Usually, it cannot be treated medically or surgically, I.e. Irreversible, except in some few cases like Meniere's disease, perilymphatic fistula or sudden hearing loss that caused by interruption of cochlear blood supply.

- Generally it's managed through rehabilitation or habilitation includes amplification.
- It's either **congenital** or **acquired**.

Congenital SNHL

- It's either genetic or non-genetic
- **Genetic hearing loss** is the one mostly associated with other anomalies forming syndromes like Waardenburg, Klippel-Feil, Usher's, Down, Treacher-Collins, Albinism...etc
- **Non-genetic hearing loss** is mostly caused by infections like toxoplasmosis (TORCHS), bacterial meningitis, Maternal rubella (German measles), Cytomegalo-virus(CMV), herpes simplex and syphilis.

Acquired SNHL

- Hearing loss that appears after birth due to **unknown causes (idiopathic)** or **some external factors**
- Some of **idiopathic causes** are Meniere's disease, sudden hearing loss, semicircular canal dehiscence, auto-immune inner ear disease

- Some of **external causes** of SNHL include; perilymphatic fistula, head trauma, ototoxic medications, noise, ageing, auditory nerve tumor and some factors that needs more investigations like tobacco smoke, radiation therapy and some surgical side effects

MHL

- Mixed HL is the hearing loss that caused by damage in both conductive and sensori-neural mechanisms.
- It's caused by combination of the causes of both CHL and SNHL.

CAPD

- It refers to the disorders of central auditory system.
- It results from lesions of the auditory brainstem pathway or auditory cortex.
- It characterizes by auditory difficulty even with normal hearing sensitivity.