hearing loss

- types of hearing loss
  - conductive hearing loss
    - conduction of sound to cochlea impaired due problem in middle or external ear
    - external ear pathology :
      - congenital anomaly :
        - Artesia (no ear canal)
        - Microtia (Deformity of ear auricle)
      - inflammatory :
        - otitis media (OM)
          - OM with effusion
          - chronic OM
        - acute otitis externa
      - wax the commonest cause
      - foreign body
      - trauma :
        - skull base fracture
      - tumors :
        - osteoma
        - Exostosis
    - middle ear pathology:
      - tympanic membrane pathology :
        - perforation
        - too thick TM
        - too thin TM
      - Drum retraction (adhesive OM)
        - because Eustachian tube dysfunction
      - otosclerosis (AR)
  - sensorineural hearing loss (SNHL)
    - SNHL is defect in conversion of sound into neural signals or in the transmission of those signals to the cortex
    - causes :
      - congenital hearing loss (AR)
      - Trauma
        - Temporal bone fracture
        - longitudinal fracture
        - transverse fracture
        - mixed
      - noise induced SNHL
      - Ototoxic
        - antibiotic
        - diuretics (furosemide)
        - anti inflammatory
        - anti malaria
      - acoustic neuroma
      - presbycusis
      - infection
        - meningitis
        - labyrinthitis
  - mixed
- signs of hearing loss
  - talking louder than necessary
  - turning up volume on the TV or radio
  - compliant that other people (mumble)
  - Lip reading
  - watching a speaker ` s face intently
  - having difficulty speaking on telephone
  - confusion from similar sounding words قمر الجرود و هههههه قمر القرود

  - inappropriate response in conversation
  - Ringing or Buzzing in the ears
- the impact of hearing impairment
  - speech
  - language
  - education
  - social(depression)
- management of hearing impairment :
  - medical
  - Hearing aid
    - cochlear implant
      - audiogram shows bilateral profound sensorineural hearing loss can be an induction
    - Bone anchored hearing aids (B.A.H.A)
      - used in conductive hearing loss
    - auditory brainstem implant (A.B.I)
    - ossiculoplasty

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