Audiology

Paediatric testing & Ototoxicity

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Who & Why?

• Audiologist- health professional who assess, diagnosis & manages auditory, 8th nerve & vestibular problems

• MDR TB population- Early Identification of hearing loss & Early Intervention

• Aminoglycosides- causing permanent, irreversible damage, sensorineural hearing loss

• Speech & Language Development → Educational, career & social implications → affects Q.o.L

• NB- Ototoxicity monitoring program
The Ear

- Ear Canal
- Inner Ear
- Eustachian Tube
- Pinna
- Eardrum
- Middle Ear
How to read an Audiogram
Equipment & Staff

- Otoscope - assess external ear canal
- Tympanometer - assess middle ear function
- Otoacoustic emissions (OAE) machine - assess functioning of the outer hair cells in cochlea
- Audiometer – assess hearing thresholds (PTA)
- Sound proof booth

- Audiologist
- Doctor
- Nurse
- Pharmacist
- Administrator/ Clerk
- Rehabilitation care worker/ Assistant
- Program manager
Tips for testing paediatrics

• < 3 years – parent/caregiver
  • Objective testing
  • Sleeping
  • Soothing mechanisms – toy/feeding bottle/pacifier
  • Visual Reinforcement Audiometry (VRA)
  • Quiet environment

• > 4 years
  • Subjective testing
  • Perform simple task – press the button/raise hand
  • Pure Tone Audiometry testing
  • Reinforcement - Good girl/well done/reward with a sticker
  • Quiet environment
Practical Session

- View various equipment
- How to keep an otoscope
- How to perform & read a tympanometry result
- How to perform & read an OAE result
- How Audiometry is performed
- How to position the paediatric throughout these tests
Thank you

Questions....
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