Assessing Complex Cases
Auditory Neuropathy Spectrum Disorder
Auditory Neuropathy Spectrum Disorder

ANSD is a label for a pattern of test results:
- Evidence of cochlear function
- Evidence of neural de-synchrony

Wide range of possible causes including:
- Immaturity
- Medical concern
- Unknown
Cochlear Microphonics
Parameters

- Cochlea is a microphone
Typical CM
Typical CM
Parameters

• **Within the protocol**
  – Stimulus rate: 80-90Hz
  – Filter – higher high pass
  – Artefact rejection - $3\mu$V

• **Manually adjust**
  – Stimulus intensity: 80/85dBeHL
  – Stimulus polarity
Protocol

• Transducer
  – Insert

• What else is needed?
  – Click ABR If there’s a CM
  – Clamped run
  – OAE
  – 1kHz
  – Tympanometry
Intended Learning Outcomes

- Auditory Neuropathy Spectrum Disorder
- Cochlear Microphonic Testing
- Atypical morphologies
- Shunt