



Aurical Visible Speech Basic Speech Mapping Measurements

Preparation and Set-up

- Open up Noah, your patient file, the OTOsuite software program
- Remove the Speech Link collar from the charger and turn it on
- Click on Navigator, Speech Mapping, then Control panel to connect the Speech Link collar to the software/computer
 - When off the charger: If green blinking, it is not connected. If blue blinking, it is connected.
- Attach new probe tubes and perform a probe tube calibration
- Seat the patient and third party and instruct/counsel
 - Patient is 18 to 36 inches from the two speakers; position the speakers at an approximate 45 degree azimuth from center
- Prepare the patient and the hearing instruments to be evaluated/programmed
- Place the probe assemblies on the patient's ears and the probe tubes in the ear canals
 - 28 mm for females, 30 mm for males and 20 mm for children past the tragal notch
OR...5 mm from the tip of the mold/hearing instrument
 - It is not recommended that you thread the probe tube through any vent channels
 - Be sure the reference microphone is positioned towards the front of the head

Measurement Procedure

- Perform an unaided measurement
- Insert the hearing instruments
- Perform an aided measurement for **comfortable** input
 - **Deliver recorded Babble with the volume slider in the middle (65-70dB)**
- Perform an aided measurement for **soft** input
 - **Deliver recorded Babble with the volume slider 4 notches to the left (55-60dB)**
- Perform an aided measurement for a **loud** stimulus/Airplane stimulus
 - **Deliver recorded Airplane with the volume slider in the middle**
 - The file will automatically increase the volume of the clip to **90dB** on the VU meter

Goals in Verification using the Audibility Area

- Soft speech to be audible: Response curve should be at the lower level of the audibility area
- Moderate speech is comfortable: Response curve should be covering the audibility area
- Loud sounds are tolerable: Spectral peaks should not exceed the UCL values



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