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| **Document Number** | **HWUG1** | | |
| **Document Title** | **Audiometer Testing** | | |
| **Department Ownership** | **Health and Wellness** | | |
| **Document Type** | **User Guide** | | |
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# Purpose

The purpose of this procedure it outline the functions required to perform a hearing functions test.

# Scope

To all REDiMED staff that carry out hearing function test.

# Reference Documents

# Definitions

dB – Decibel (Sound Level)

Hz – Hertz (Unit of Frequency)

# Flowcharts (Other Images)

# Procedures

**AUDIOMETER DAILY CHECK**

1: Turn audiometer on using black switch found on back next to the cord inserts.

2: Complete daily accuracy check by placing headphones on your own ears making sure that red is on the right ear and blue on the left.

3: Select the right ear set frequency dial to 500Hz, hold the tone on then sweep volume dial up until 5- 10dB above your own hearing threshold

4: Hold tone on, then sweep up the frequency range to 8000Hz. Switch to the other ear, hold tone on sweep back down to 500Hz.

5: Set the intensity dial to 60dB then repeat step 4.

6: Set the audiometer to 1000Hz and 60dB and wriggle the leads at the headphones and all connecting sockets listening for static or drop outs.

7: Check that the response button is working and that calibration is current.

8: Document check and any faults.

**HEARING TESTING**

1: To begin, assess client’s eligibility for testing pertaining to pretesting noise level exposure.

2: Check client’s ears using otoscope for Waugh and Macrae criterion 4, if not met proceed with step 3. If met refer client to their local medical practitioner for ear syringing and rebook them for a later date.

3: Assist client to enter hearing booth and sit down, then give them instructions on the testing procedure.

4: Place headphones on client and adjust them as necessary, making sure that red is on the right ear and blue on the left.

5: Hand client the signal button and close door

6: Commence testing at 1000Hz in the better ear (if known) or with the right ear.

7: With the volume dial set to 0dB hold the tone switch on and turn the dial at a moderate speed so the level of sound is gradually increased.

8: As soon as the client responds release the tone switch.

9: Turn the hearing level dial down 10dB and present one short tone burst of sound about one second long.

10: If the client responds, reduce the level by another 10dB and present the tone again. Repeat until the client fails to respond.

11: Increase the level by 5dB and present a total of three separate tone bursts, each one second long and with a random gap between each tone.

12: If the client responds to one or none of the tones, turn the volume dial up another 5dB and present another three tones. Continue until two or three tones are heard.

13: When the client has responded to two or three tones, turn down 5dB and present three tones, continue until they hear one or none of these three tones then stop.

14: Record the lowest level at which the worker responded to two or three out of the three tones.

15: Repeat at frequencies 1500Hz, 2000Hz, 3000Hz, 4000Hz, 6000Hz and 8000Hz.

16: Return to 1000Hz and retest, if the test is the same or within 5dB then test at 500Hz, if 5dB difference accept the lower of the two results.

17: If the repeat at 1000Hz is different by 10dB or more, take the second result and retest all frequencies in the ear as above.

18: Repeat in the other ear and record all findings.

19: Open booth, remove headphones and allow client to exit the booth.

USED BUTTONS ON AUDIOMETER ````

20Db

1000Hz

To change left to right L-R

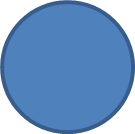
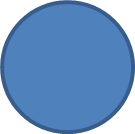
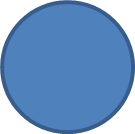


Signal Signal

Client’s Response



Intensity Dial (Hz)

Dial and Tone Switch

Dial and Tone Switch Left Ear (dB)

Right Ear (dB)

# Appendices