

Job Aid: Conducting Pure-Tone Audiometry

Script

- 1. Give instruction before placing headphones on patient.
- 2. Simple and specific.
 - a. I want you to find the softest sounds you can hear.
 - b. Press this button when you hear the tone, <u>OR</u> raise your hand when you hear the tone.
 - c. You will hear it the right ear or better ear.



- 1. The softest intensity level at which the pure tone is heard is at 50%. A threshold is the minimum intensity or volume required to hear each frequency.
- 2. Follow standardized bracketing procedure.
- 3. Test required frequencies, each ear:
 - Required test frequencies (OSHA/MSHA) 500 6000 Hz
 Note: 8000 Hz is optional by U.S. OSHA/MSHA regulation but strongly recommended.
 - b. Required test frequencies (FRA): 500 to 8000 Hz
- 4. Each ear tested separately.

Note: Start test in the right ear or better ear.

- 5. Record results.
 - a. Left or Right
 - b. Threshold (dB HL)
 - c. Frequency (Hz)

Frequency in Hz								
	500	1000	2000	3000	4000	6000		
Right	5	10	20	25	45	30		
Left	10	10	20	30	55	40		

Pure-Tone Audiometry

- 6. Order
 - a. Frequency Order
 - i. Right ear / better ear 1k, 0.5k, 1k, 2k, 3k, 4k, 6k, 8k Hz
 - ii. Repeat for other ear / left ear.
 - b. Starting Level
 - i. First frequency start at 30 dBHL.
 - ii. Following frequencies start 20 dBHL louder than previous threshold.
 - c. Bracketing Procedure
 - i. Decrease in -10 dB steps until no response.
 - ii. Increase in +5 dB steps until response obtained.
 - iii. Repeat until 2/3 ascending responses at softest level.
- 7. If "no response" at first tone presentation:
 - a. Increase by 20 dB HL up to 80 dB HL
 - b. If NR at 80 dB HL, increase by 10 dB HL
- 8. If NR at maximum output (100 dB HL), present 3 times, and record "NR".
- 9. If response at minimum output (0 or -5 dB HL) present 3 times, and record threshold.

Revision History						
Revision	Date	Author	Nature of Change			
0	1/5/2023	Racquel Bermudez / Anita Jones	Updated and created to job aid format			