\*BC only tested at 250, 500, 1000, 2000, and 4000 Hz.

\*Bilateral- both ears with pathology that vary by +/- 10 dB between ears.

\*Unilateral- one ear with pathology, one ear normal

Normal Hearing

* AC and BC within -10 to 25 dB
* AC and BC for a specific freq must be within 10 dB of each other. BC value will be a lower or equal numerical value as the AC. (BC≤ AC)
* Consecutive freqs are no more than 10 dB apart for AC and BC.

\*Otitis Media can have a low freq loss or a flat loss

Otitis Media (Low freq loss)

* Max AC 60 dB for 250 and 500 Hz.
* Max AC for 1000-8000 Hz within normal hearing range (see above)
* Max BC 25 dB for all freqs
* AC and BC for 250 and 500 Hz must be 15 dB or more apart.
* AC and BC within 10 dB of each other for a given freq for freqs 1000-8000 Hz
* Drop between 500 and 1000 Hz 20-40 dB difference.

Otitis Media (Flat loss)

* Max AC 60 dB for all freqs
* Max BC 25 dB for all freqs
* AC and BC must be at least 15 dB apart at each freq across all freqs
* Consecutive freqs within 10 dB for both AC and BC

Otosclerosis (bilateral)

* BC Thresholds< 15 dB except for a threshold= 20-30 dB @ 2 k Hz
* AC thresholds 30-60 dB. Consecutive frequencies must be within 5 dB. Loss is relatively flat: 250 and 8k should be within +/-10 dB.
* AC and BC must be 15 dB or greater apart (except @ 2Khz should be within 10 dB).

Otoslcerosis (Low freq loss)

* BC Thresholds< 15 dB except for a threshold= 20 dB @ 2 k Hz
* AC thresholds 25-60 dB. Consecutive frequencies must be within 5 dB. 250 and 500 Hz must be below all other AC threshold levels. 500 should be 10-20 dB below 1kHz.
* AC and BC must be 15 dB or greater apart.

Ossicular Discontinuity

* All BC within normal range (see above)
* Consecutive freqs are no more than 10 dB apart for BC.
* AC 30 -60 dB. Must be 15 dB or greater from BC at each freq

Microtia with Atresia \*Name Change! (This is the same config as Ossicular Discontinuity and Flat Otitis Media. Case Hx different)

* All BC within normal range (see above)
* Consecutive freqs are no more than 10 dB apart for BC.
* AC 30 -60 dB. Must be 15 dB or greater from BC at each freq

Presbycusis

* AC and BC for a specific freq must be within 10 dB of each other. BC value will be a lower or equal numerical value as the AC. (BC≤ AC)
* 250 and 500 Hz @ 10-40 dB.
* 250 and 500 Hz are within +/-5 dB.
* From 500 Hz, consequent frequencies must become higher in numerical value, ranging from differences from 5 dB to 20dB between consecutive freqs. Acceptable range for 1000-8000 Hz is 45 dB to limits of audiometer.
* Right and Left ears +/-5 dB at all freqs for AC and BC

Acoustic Tumor (8th nerve tumor)

* AC and BC for a specific freq must be within 10 dB of each other. BC value will be a lower or equal numerical value as the AC. (BC≤ AC)
* Normal hearing through 1000 Hz (see above)
* From 1000 Hz, consequent frequencies must become higher in numerical value, ranging from differences from 5 dB to 20dB between consecutive freqs. Acceptable range for 2000-8000 Hz is 30 dB to limits of audiometer.

Meniere’s Disease

* One ear normal hearing
* AC and BC within 5 dB of each other at each freq for all freqs
* BC< AC
* Range 40-90 dB
* Consecutive freqs within +/-10 dB
* 8k and 250 Hz should be within 15dB of each other (flat loss)

Noise Induced Trauma

* AC and BC within 10 dB of each other at each freq for all freqs
* BC≤ AC
* 250-2000 Hz normal hearing (see above)
* 4000 Hz 20-50 dB drop from 2000 Hz
* 8000 Hz 10-20 dB higher (lower numerical value) than 4000 Hz
* Right and Left ears +/-10 dB for 250-2000 Hz. 4000-8000 Hz +/-20 between ears (Distance between ears at 4000, must be the same at 8000)