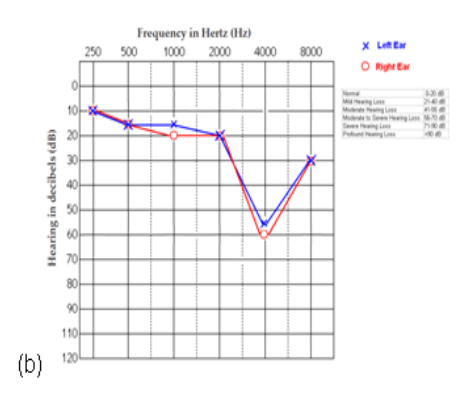
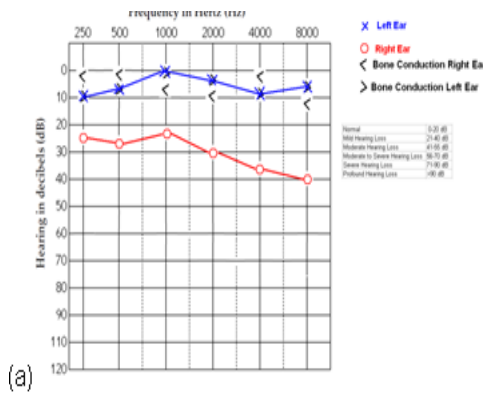


Medical Interventions – 1.3 Study Guide

Name: _____

1. What structures are included in the outer ear?
2. What structures are included in the middle ear?
3. What structures are included in the inner ear?
4. What is the function of the ossicles? List them all and their common name.
5. What is the function of the tympanic membrane?
6. What is the function of the vestibule? What is another name for the vestibule?
7. What is the function of the cochlea?
8. Where are the sensory hair cells located? What is their function?
9. How does loud music damage hearing? Specifically what structure(s) are affected?
10. What is sensorineural hearing loss? What parts of the ear/structures are affected? Repairable?
11. What is conductive hearing loss? What parts of the ear/structures are affected? Repairable?
12. What type of hearing loss do cochlear implants help with? What structures must be unaffected for this intervention to be successful?
13. How do hearing aids function?
14. When are hearing aids not an optional intervention?

Normal Hearing	0 - 20 dB
Mild Hearing Loss	21 - 40 dB
Moderate Hearing Loss	41 - 55 dB
Moderate to Severe Hearing Loss	56 - 70 dB
Severe Hearing Loss	71 - 90 dB
Profound Hearing Loss	> 90 dB



15. Describe the hearing of patient (a). Be specific about type of hearing loss and levels of hearing damage (if present).

a. Describe the hearing of patient (b). Be specific about type of hearing loss and levels of hearing damage (if present).

16. Draw a diagram of sound waves. Label parts of the wave using the following terms: wavelength, crest, trough, amplitude, rarefaction, compression

17. What is the path that sound travels in the ear? (Draw a picture or flow diagram)

18. What are the pro arguments of the cochlear implant debate?

19. What are the con arguments of the cochlear implant debate?

20. What is the role of an audiologist? How are audiograms read?