	Medical Interventions – 1.3 Study Guide Nam	e:
1.	. What structures are included in the outer ear?	
2.	. What structures are included in the middle ear?	
3.	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.	6. What is the function of the vestibule? What is another name for the	vestibule?
7.	w. What is the function of the cochlea?	
8.	3. 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.	o. 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 ar 	e affected? Repairable?
12.	What type of hearing loss do cochlear implants help with? What struintervention to be successful?	actures must be unaffected for this
13.	3. How do hearing aids function?	

14. When are hearing aids not an optional intervention?

Normal Hearing	0 - 20 dB]				ency in ric				X Left Ear							
Mild Hearing	21 - 40 dB	1	. [50 5	500	1000 2	1000	1000 8000		O Right Ear			250 5	 ncy in H	lertz (Hz 2000	4000 8000	X LeftEar
Loss			10	<u> </u>		*	*	×		 Bone Conduction Right Ear Bone Conduction Left Ear 		0					Normal 5-30 dB MM Having Loss 21-40 dB
Moderate	41 - 55 dB	(dB)	20	Î	Ш		ÌŢ			Normal 0-30 e0		10	₩				Mild Hearing Lose 21-40 dB Moderate Rearing Lose 41-55 dB Moderate to Service Hearing Lose 56-70 dB Service Hearing Lose 17-100 dB Profesoral Rearing Lose 160 dB
Hearing Loss		els (d	30	<u></u>	<u> </u>		↓		\dashv	Normal 0-20 d0 Months Insuring Loss 21-40 d0 Moderate Hearing Loss 41-65 d0 Moderate to Severe Hearing Loss 55-70 d0 Severe Resetral Loss 71-00 d0	1077	20			1		Profound Fearing Loss 260 dB
Moderate to	56 - 70 dB	decib	40						\dashv	Seem Reading Lots 71-90 dD Probund Heaving Lots 160 dD		40	+		+		-
Severe Hearing		.s.	50									50	+				-
Loss		Heari	70									70				Ĭ	
Severe Hearing	71 - 90 dB		80	-			-		4			80	+		+		-
Loss			90	\vdash		++	+		\dashv			90					-
Profound	> 90 dB		110						٦		(b)	110]
Hearing Loss		(a)	120└─						_		(0)						

- 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?