BIMODAL QUESTIONNAIRE

BIM=bimodal users (continued to use the hearing aid aside the CI) UNI=unilateral users (discarded the hearing aid aside the CI)

Instructions: By this questionnaire we hope to gain more insight into the advantages and disadvantages of wearing a hearing aid and the reasons why patients do (not) continue to wear a hearing aid. Please answer each question by checking the box that best represents your situation, experience or vision. Feel free to add any comments in the assigned free space or on the back of the page (please add the number of the question).

5 1 11						
Remember the	period <u>BEFORE</u> you received a cochlear implant	. These questions ask about	your experiences	with hearing aids during thi	s period.	Question based on
1. When did yo	u start wearing hearing aids? (Please indicate ye	ar and month if possible)				
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2. When did yo	u stop wearing hearing aids? (Please indicate ye	ar and month or "I continue				
			Right:	Left:		
3. How much d	lid you wear your hearing aid(s) before your surg	erv?				Fitzpatrick et al. (2010)
	,,,	,-	Frequency	Percentage	% Bars	(====,
			BIM UNI	BIM UNI	BIM UNI	
Both sides:	more than 10 hours a day	(almost) always	17 13	68,0 61,9		
	5 to 10 hours a day	sometimes	1 2	4,0 9,5		
	less than 5 hours a day	rarely	0 1	0,0 4,8		
		never	7 5	28,0 23,8		
Right:	more than 10 hours a day	(almost) always	2 2	8,0 9,5		
0	5 to 10 hours a day	sometimes	0 0	0,0 0,0		
	less than 5 hours a day	rarely	0 0	0,0 0,0		
		never	23 19	92,0 90,5		
		,		[]	_	
Left:	more than 10 hours a day	(almost) always	5 2	20,0 9,5		
	5 to 10 hours a day	sometimes	0 1	0,0 4,8		
	less than 5 hours a day	rarely never	0 0 20 18	0,0 0,0 80,0 85,7		
		llevel	20 18	80,0 83,7		
4. Could you he	ear environmental sounds with your hearing aid(s) before your surgery?				Fitzpatrick et al. (2010)
			Frequency	Percentage	% Bars	
			BIM UNI	BIM UNI	BIM UNI	
		yes	18 19	72,0 86,4		
		no	7 3	28,0 13,6		
5 Could you u	nderstand people talking to you with your hearing	a aid(s) hefore your surgery)			Fitzpatrick et al. (2010)
5. Could you ui	iderstand people talking to you with your nearing	dia(s) before your surgery:	Frequency	Percentage	% Bars	Thisputrick et al. (2010)
			BIM UNI	BIM UNI	BIM UNI	
	With lipreading:	yes	22 18	88,0 81,8		
		no	3 4	12,0 18,2		
	Without lipreading:	yes	7 5	28,0 22,7		
		no	18 17	72,0 77,3		
6 All in all how	v helpful was your hearing aid(s)?					Fitzpatrick et al. (2010)
0. 7 th 111 dil, 110 t	v neipjar was your nearing aid(s).		Frequency	Percentage	% Bars	Thepatrick et al. (2010)
			BIM UNI	BIM UNI	BIM UNI	
		very helpful	14 6	56,0 27,3		
		somewhat helpful	10 6	40,0 27,3		
		rarely helpful	1 8	4,0 36,4		
		not at all helpful	0 2	0,0 9,1		
7 How do you	feel that you coped with your hearing loss before	you received your imlant?				Fitzpatrick et al. (2010)
7. How do you	jeer that you coped with your nearing loss before	you received your innuite:	Frequency	Percentage	% Bars	ritzputrick et al. (2010)
			BIM UNI	BIM UNI	BIM UNI	
		well all of the time	2 3	8,0 13,6		
		well much of the time	11 9	44,0 40,9		
		well some of the time	7 7	28,0 31,8		
	not well at all (it really	affected me negatively)	5 3	20,0 13,6		
The following	questions deal with your decision process about u	Ising a hearing aid with the	cochlear implant			
THE TOHOWING (questions deal with your decision process about t	and a nearing ala with the	cocincai iiripiaiit.			
8. Had you ma	de a decision before your surgery about whether	you would use your hearing	aid with your cocl	hlear implant?		Fitzpatrick et al. (2010)
			Frequency	Percentage	% Bars	
			BIM UNI	BIM UNI	BIM UNI	
		yes	17 7	65,4 31,8		
		no	9 15	34,6 68,2		

9. Did your audiologist talk to you about the possibility of wearing your hearing aid with yo		Danasatasa	0/ Para	Fitzpatrick et al. (2010)		
	Frequency BIM UNI	Percentage BIM UNI	% Bars BIM UNI			
yes, before surgery	9 7	34,6 31,8	BIIVI OIVI			
yes, after surgery	2 4	7,7 18,2				
yes, both before and after surgery	6 3	23,1 13,6				
no, use of a hearing aid was not discussed	3 6	11,5 27,3				
I can't remember	6 2	23,1 9,1				
10. Did your audiologist encourage you to try wearing your hearing aid with your cochlear	implant?			Fitzpatrick et al. (2010)		
3,,	Frequency	Percentage	% Bars	,		
	BIM UNI	BIM UNI	BIM UNI			
yes, before surgery	6 1	23,1 4,5				
yes, after surgery	5 4	19,2 18,2				
yes, both before and after surgery no	4 4 7 9	15,4 18,2 26,9 40,9				
I can't remember	4 4	15,4 18,2				
The following questions deal with your experiences of using a hearing aid AFTER your receipt	und the cochlear implan	-				
The following questions deal with your experiences of using a hearing aid <u>AFTER</u> you recei	ved the cochlear implai	it.				
11. Has the hearing in your un-implanted ear changed since you received your cochlear imp		<u></u>		Fitzpatrick et al. (2009)		
	Frequency BIM UNI	Percentage	% Bars BIM UNI			
don't notice any difference	8 11	30,8 50,0	BIM OM			
seems a little worse	10 2	38,5 9,1				
seems a little better	4 1	15,4 4,5				
seems a lot worse	3 6	11,5 27,3				
seems a lot better	1 2	3,8 9,1				
12. How often do you use a hearing aid with your cochlear implant?				Fitzpatrick et al. (2009)		
12. How often do you use a nearing did with your coefficial implants	Frequency	Percentage	% Bars	тагриптск ет иг. (2009)		
	BIM UNI	BIM UNI	BIM UNI			
more than 10 hours a day (almost) always	21 0	80,8 0,0				
5 to 10 hours a day sometimes	2 0	7,7 0,0				
less than 5 hours a day rarely	3 0	11,5 0,0				
never	0 22	0,0 100,0				
13. How often do you use only your cochlear implant?				Fitzpatrick et al. (2009)		
	Frequency	Percentage	% Bars	, , , , , , , , , , , , , , , , , , , ,		
	BIM UNI	BIM UNI	BIM UNI			
more than 10 hours a day (almost) always	2 22	8,0 100,0				
5 to 10 hours a day sometimes	2 0	8,0 0,0				
less than 5 hours a day rarely never	7 0 14 0	28,0 0,0 56,0 0,0				
Hevel	14 0	30,0 0,0				
14. How often do you use only a hearing aid?				Fitzpatrick et al. (2009)		
	Frequency	Percentage	% Bars			
more than 10 hours a day (almost) always	BIM UNI 2 0	8,0 0,0	BIM UNI			
more than 10 hours a day (almost) always 5 to 10 hours a day sometimes	1 0	8,0 0,0 4,0 0,0				
less than 5 hours a day rarely	6 0	24,0 0,0				
never	16 22	64,0 100,0				
15. When did you start using your hearing aid and eachless implent together?				Eitznatziek at al. (2000)		
15. When did you start using your hearing aid and cochlear implant together?	Frequency	Percentage	% Bars	Fitzpatrick et al. (2009)		
	BIM UNI	BIM UNI	BIM UNI			
right away	20 6	76,9 27,3				
within 1 to 3 months of the implant	2 2	7,7 9,1				
within 3 to 6 months of the implant	2 1	7,7 4,5				
after the first 6 months of the implant I never tried a hearing aid with the implant	2 2 0 11	7,7 9,1 0,0 50,0				
r never theo a hearing aid with the illiplant	0 111	0,0 30,0				
> If you never tried a hearing aid with your cochlear implant: go straight on to question 38.						
16. After receiving your implant, how long did you use your hearing aid in the other ear?				Fitzpatrick et al. (2010)		
-	Frequency	Percentage	% Bars			
Latification has been deleted to the settlement	BIM UNI	BIM UNI	BIM UNI			
I still use my hearing aid in the other ear	26 0	100,0 0,0				
I do no longer use a hearing aid in the other ear, but I did try a hearing aid more than 6 months	o 4	0,0 36,4				
1 to 6 months	0 2	0,0 36,4 0,0 18,2				
1 to 4 weeks	0 1	0,0 9,1				
1 to 7 days	0 2	0,0 18,2				
less than 1 day	0 2	0,0 18,2				
			_			
				1		

> Please answer the following questions, even if you no longer use a hearing aid aside you	ır implant. Yo	ı will be asked about your e	xperiences during the			
period that you did try the hearing aid.						
17. How fast did you adapt to using your hearing aid and cochlear implant together?				Fitzpatrick et al. (2009)		
	Frequency BIM UNI	Percentage BIM UNI	% Bars BIM UNI			
right away	18 4	69,2 40,0				
within 1 to 3 months of the implant within 3 to 6 months of the implant	4 1 2 0	15,4 10,0 7,7 0,0				
after the first 6 months of the imlant	1 0	3,8 0,0				
I couldn't get used to the hearing aid	1 5	3,8 50,0				
18. The hearing aid that you used with your cochlear implant, is this the same hearing aid you used before your surgery?						
	Frequency BIM UNI	Percentage BIM UNI	% Bars BIM UNI	Fitzpatrick et al. (2010)		
yes	13 9	50,0 90,0				
no, I immediately started with a new hearing aid after surgery no, first I used the old hearing aid, but now I have a new hearing aid since	3 1 10 0	11,5 10,0 38,5 0,0				
19. How old was the hearing aid that you used with your cochlear implant?				Fitzpatrick et al. (2010)		
	Frequency		% Bars	(2020)		
more than 10 years old	BIM UNI	BIM UNI 0,0 11,1	BIM UNI			
5 to 10 years old	6 2	23,1 22,2				
3 to 5 years old	10 4	38,5 44,4				
less than 3 years old	10 2	38,5 22,2				
20. Did you need to have your hearing aid adjusted after using your cochlear implant?	Eronica		0/ P	Fitzpatrick et al. (2009)		
	Frequency BIM UNI	Percentage BIM UNI	% Bars BIM UNI	Fitzpatrick et al. (2010)		
not at all, the same settings that were in place before my surgery were used	17 6	65,4 66,7				
yes, the fitting was changed: 1 to 3 times 3 to 6 times	5 1 1 1 2	19,2 11,1 3,8 22,2				
more than 6 times	3 0	11,5 0,0				
These changes were made by: the audiologist (audiologist (audiologist))	4 0	44,4 0,0				
the audiologist (audiological centre) the hearing aid dispenser (shop)	5 2	55,6 100,0				
21. How did you set the volume of your hearing aid and cochlear implant when whorn combined? Please check all that apply. Fitzpatrick et al. (2009)						
	Frequency					
		7				
Hearing aid: the same as when Luse the hearing aid alone	BIM UNI					
Hearing aid: the same as when I use the hearing aid alone different compared to when I use the hearing aid alone	BIM UNI 17 3 2 2		t be calculated since more than one rnative was possible.			
the same as when I use the hearing aid alone different compared to when I use the hearing aid alone depends on the situation	17 3 2 2 6 2					
the same as when I use the hearing aid alone different compared to when I use the hearing aid alone	17 3 2 2					
the same as when I use the hearing aid alone different compared to when I use the hearing aid alone depends on the situation I rarely use the volume control on my hearing aid I didn't have access to the volume control of my hearing aid	17 3 2 2 6 2 8 3					
the same as when I use the hearing aid alone different compared to when I use the hearing aid alone depends on the situation I rarely use the volume control on my hearing aid	17 3 2 2 6 2 8 3	alte	mative was possible.			
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24. In wich of the following listening conditions did you wear your hearing aid with your cochlear implant? Please check all that apply. Fitzpatrick et al. (2010) Frequency BIM UNI I use(d) my hearing aid in noisy situations 4 Percentages cannot be calculated since more than one 9 I use(d) my hearing aid in quiet situations 25 alternative was possible I use(d) my hearing aid when listening to music 22 5 other listening situations: 0 25. In quiet listening situations (e.g. a 1-on-1 conversation), you hear better with your: itzpatrick et al. (2009) Frequency Percentage % Bars BIM UNI BIM UNI BIM UNI cochlear implant only 0.0 60.0 6 hearing aid only 0 0,0 0,0 cochlear implant and hearing aid together 25 0 100.0 0.0 no difference with any of the above 0 4 0,0 40,0 26. In noisy situations (e.g. in a restaurant, at a party, shopping center, in a large group discussion), you hear better with your: Fitzpatrick et al. (2009) Frequency Percentage % Bars BIM UNI BIM UNI BIM UNI cochlear implant only 0.0 0 5 55.6 hearing aid only 2 0 7,7 0,0 cochlear implant and hearing aid together 20 2 76,9 22,2 no difference with any of the above 4 2 22,2 15,4 27. In places with an echo (e.g. church, auditorium), you hear better with your: Fitzpatrick et al. (2009) Percentage Frequency % Bars BIM UNI BIM UNI BIM UNI cochlear implant only 6 7,7 85,7 1 0 hearing aid only 3.8 0.0 cochlear implant and hearing aid together 15 0 57,7 0,0 no difference with any of the above 30,8 14.3 28. Music sounds best with your: Fitzpatrick et al. (2009) Frequency Percentage % Bars BIM UNI BIM UNI BIM UNI cochlear implant only 3,8 85,7 6 hearing aid only 1 0 3,8 0,0 cochlear implant and hearing aid together 20 0 0.0 76.9 no difference with any of the above 1 15,4 14,3 29. Telling from which direction souds are coming is easier with your: Fitzpatrick et al. (2009) Frequency Percentage % Bars BIM UNI BIM UNI BIM UNI cochlear implant only 2 4 7.7 50.0 hearing aid only 1 0 3,8 0,0 cochlear implant and hearing aid together 13 50,0 12,5 1 38.5 no difference with any of the above 10 37.5 30. Are there certain sounds that you hear better (or worse) when wearing your hearing aid and cochlear implant together? Describe which sounds, e.g. Fitzpatrick et al. (2009) sounds in the environment (e.g. telephone, water), speech sounds (e.g. consonants, vowels, quiet voices, etc.) 31. Please use the space below and the reverse side of this page to share any additional information about how you feel that using a hearing aid and Fitzpatrick et al. (2009) cochlear implant together helps or hinders listening and communication. 32. When you are using your hearing aid and cochlear implant together, where do you perceive sound? Tyler et al. (2002) Percentage % Bars Frequency BIM UNI BIM UNI BIM UNI in the middle of your head 0 34,8 0,0 closer to the the ear with cochlear implant 8 3 34,8 33,3 closer to the ear with hearing aid 1 0 4,3 0,0 separatly in both ears 5 5 21,7 55,6 depends on the situation 4,3 11,1 33. When you are using your hearing aid and cochlear implant together, where is the sound louder? Tvler et al. (2002) Percentage % Bars Frequency BIM UNI BIM UNI BIM UNI in the cochlear implant ear 15 65,2 77,8 7 in the hearing aid ear 11,1 1 4,3 1 same loudness in both ears 7 1 30.4 11.1 depends on the situation 0 0 0,0 0,0 34. When using the cochlear implant and hearing aid together, does the sound "fuse" or "join" to become one image? Tvler et al. (2002) % Bars Frequency Percentage BIM UNI BIM UNI BIM UNI yes, it fuses together to become one image 16 1 66.7 11.1 77,8 no, I hear two separate images 5 20,8 different, namely: 12.5 11.1

35. Which ear contributes most to understanding speech?						
	Frequency	Percentage	% Bars			
	BIM UNI	BIM UNI	BIM UNI			
especially the cochlear implant ear	12 10	46,2 100,0				
rather the cochlear implant ear	2 0	7,7 0,0				
the hearing aid and cochlear implant ear add equally	9 0	34,6 0,0				
rather the hearing aid ear	1 0	3,8 0,0				
especially the hearing aid ear	2 0	7,7 0,0				
36. Considering everything, do you think your hearing aside the cochlear implant is worth the trouble?						
	Frequency	Percentage	% Bars			
	BIM UNI	BIM UNI	BIM UNI			
no, not worthwhile at all	1 7	3,8 77,8				
a bit worthwhile	2 1	7,7 11,1				
reasonably worthwhile	4 0	15,4 0,0				
really worthwhile	8 1	30,8 11,1				
extremely worthwhile	11 0	42,3 0,0				
37. Considering everything, how much has your hearing aid aside the cochlear implant changed your enjoyment in life?						
- · · · · · · · · · · · · · · · · · · ·						
	Frequency BIM UNI	Percentage BIM UNI	% Bars BIM UNI			
worse	0 3	0,0 33,3				
no difference	2 5	7,7 55,6				
a bit better	5 0	19,2 0,0				
better	7 0	26,9 0,0				
much better	12 1	46,2 11,1				
38. List the 3 factors that most influenced your decision (not) to use year hearing aid with the cochlear implant (from 1 to 3 in order of importance).						
1.						
2.						
3.						
3.						
39. Please feel free to share any additional information concerning the reasons why you decided (not) to wear your hearing aid in conjunction with your						

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