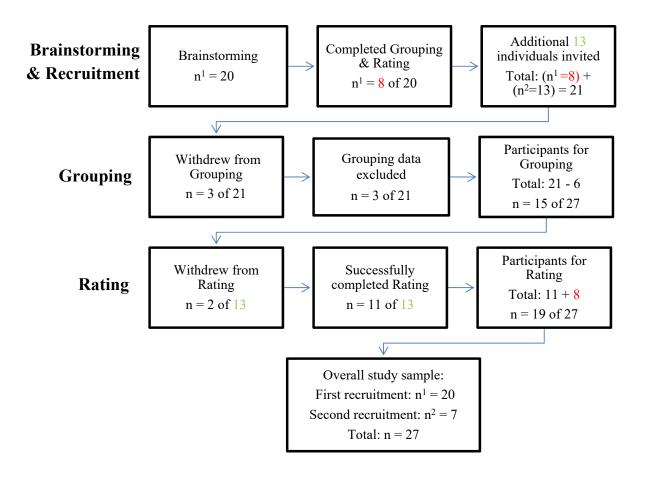
## **Supplementary material**

 Table S1. Examples of statements edited by the researchers

Category	Statement example	Result
Irrelevant	"I have to accept the reality"  "I used to fight with my co-workers a	Removed
	lot because they thought I couldn't understand what they were saying, which made me feel stupid"	
Duplicate	"I can keep up with the conversation now - this is surprising to her" "She is surprised with my abilities now, exciting for me as well"	Combined to:  "The partner is surprised with the cochlear implant recipient's abilities in that they can now keep up with a conversation"
Non-specific	"A lot has changed"	Removed
Multiple statements	"Communication has improved, but there are still some misunderstandings and difficulties"	Separated into individual statements:  "Since cochlear implantation, there are still some misunderstandings and difficulties during communication" AND  "Communication has improved since cochlear implantation"
Not pertaining to focus	"We can have a conversation as a family now which is very nice"	Removed

Figure S2:



**Figure S2**. Flow chart describing first (n<sup>1</sup>) and second (n<sup>2</sup>) participant recruitment phases during the brainstorming, grouping and rating tasks. The superscript numbers represent the first and second phases of recruitment.

**Table S3.** Five concepts describing the impact of adult cochlear implantation on the partner relationship.

Cluster	Description	Statements (bridging scores)	
(bridging			
average)			
Social	Aspects relating to	1. The partner of the cochlear implant	
Interactions (0.8)	social activities, the	recipient had to learn to be more social again	
	listening	after cochlear implantation (0.65)	
	environment and	6. Finances and the way couples do their taxes	
	practical changes	have changed following cochlear implantation	
	made by the couple.	since the partner with a cochlear implant is	
		now seen as a person with a disability (0.86)	
		10. Following cochlear implantation, partners	
		of cochlear implant recipients have to be	
		mindful of the listening environment in terms	
		of where they are and how many people there	
		are (0.73)	
		12. Since cochlear implantation, it is much	
		better to go to the movies together as a couple	
		(0.95)	
		14. As a couple, we can now go out with	
		friends together (0.99)	
		15. As a couple, we don't have to be cognisant	
		of where we go or where we sit anymore	
		(0.92)	
		62. Partners of cochlear implant recipients	
		need to adjust and accept that their lifestyle	
		will change after cochlear implantation (0.70)	
		63. Since cochlear implantation, we can't listen	
		to music in the same way as we did before	
		(0.88)	
		71. The cochlear implant recipient realised	
		how dependent they are on their partner since	
		cochlear implantation (0.70)	
		102. Following cochlear implantation,	
		cochlear implant recipients need to learn to be	
		more social again (0.64)	

Partner	Aspects relating to	5. Since cochlear implantation, the partner has		
Involvement	assistance provided	high expectations of the cochlear implant		
(0.68)	to the CI recipient,	recipient and expects them to be "hearing-		
(1 1 1)	accommodations	able" (0.64)		
	made by the partner	7. In terms of logistical aspects, partners have		
	and how the couple	to adjust after cochlear implantation, like		
	functions in their	positioning themselves on the side where the		
	environment.	cochlear implant recipient can hear better		
	chvironment.			
		(0.74)		
		8. There are practical things that would still be		
		very difficult for the cochlear implant recipient		
		to do alone where they need their partner's		
		help, for example, having a conversation with		
		an unfamiliar person over the phone (0.80)		
		9. Following cochlear implantation, partners		
		have to remember that the cochlear implant		
		recipient can't hear or communicate without		
		their cochlear implant(s) (0.69)		
		11. Following cochlear implantation, partners		
		of cochlear implant recipients have to be		
		attentive and mindful of things like seating		
		arrangements in restaurants and in the car		
		(0.65)		
		16. The partner of the cochlear implant		
		recipient has to make sure that they, as a		
		couple, are prepared in terms of extra batteries		
		when they leave the house together (0.55)		
		21. Since cochlear implantation, the partner		
		helps the cochlear implant recipient more with		
		communicating with others (0.70)		
		24. The partner no longer has to act as the		
		"middle-man" or interpreter between the		
		cochlear implant recipient and others (0.70)		
		28. The partner is now more considerate in		
		making sure the cochlear implant recipient can		
		hear and follow others well (0.62)		
		29. The partner will often advocate for the		
		cochlear implant recipient in difficult		
		situations on their behalf, even after cochlear		
		implantation (0.65)		
		1 ()		

cochlear implant recipient has indicated to the partner that they have to be their helper (0.68)  58. The partner has to take the responsibility of indicating the direction of where sounds come from to the cochlear implant recipient, even after cochlear implant recipient, even after cochlear implant recipient of the cochlear implant recipient outled see that the cochlear implant recipient could see that the cochlear implant recipient could not understand; now they accept that the cochlear implant recipient acrows the cochlear implant recipient still asks their partner to help them in difficult listening situations or if they don't have their cochlear implant (s) on (0.74)  69. After cochlear implantation, the partner had to find a church where the cochlear implant recipient can be comfortable and have a better experience of the service (0.72)  86. When the battery of the cochlear implant device(s) is flat, the conversation stops, and partners have to go home because the cochlear implant recipient can't participate in the conversation anymore (0.78)  88. Partners have to accept that the way they communicate with the cochlear implant recipient is different than communicating with someone with normal hearing (0.68)  94. Following cochlear implantation, there are practical or environmental situations where the partner still "has to be the cochlear implant recipient's ears", like when everyone is wearing masks (0.69)  101. As a couple, we now have to be mindful of the seating arrangement when we are in a group or going to a restauratio (0.69)  102. As a couple, we now have to be mindful of the seating arrangement when we are in a group or going to a restauration, the partner gets (0.52)  103. Since cochlear implantation, the partner gets (0.52)			30. Following cochlear implantation, the
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Communication Aspects relating to 3. Since cochlear implantation, the partner gets			
(0.52) communication frustrated when having to repeat what was said	Communication	_	
	(0.52)	communication	frustrated when having to repeat what was said

	between the couple	because they know that the cochlear implant
	Î	
	and between the CI	recipient can hear better now (0.48)
	recipient and those	25. The partner does not have to speak on the
	around them.	cochlear implant recipient's behalf anymore
		after cochlear implantation (0.75)
		31. We can now look back and joke about how
		we as a couple had to communicate in the past
		(0.40)
		32. There are a lot less misunderstandings
		between us after cochlear implantation (0.49)
		33. At home, the children now include the
		cochlear implant recipient in conversations; it's
		no longer only between them and the hearing
		partner (0.51)
		34. If we have a problem now, we can talk
		about it and deal with it (0.29)
		35. We can now talk to each other in the
		car",0.52
		36. "We can now communicate with each
		other in the dark (0.50)
		37. As a couple, we now have more frequent
		conversations and thus share more with each
		other (0.41)
		40. The cochlear implant makes
		communication between partners easier (0.43)
		41. The cochlear implant recipient can now
		participate more in conversations (0.52)
		42. The partner is surprised with the cochlear
		implant recipient's abilities in that they can
		now keep up with a conversation (0.53)
		43. We can now chat effortlessly and without
		stress (0.53)
		44. Since cochlear implantation, the partner is
		not sure how to communicate with the
		cochlear implant recipient (0.56)
		45. We can chat more frequently since
		cochlear implantation (0.42)
		46. Communication has improved since
		cochlear implantation (0.46)
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47. Since cochlear implantation, we as a
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couple can communicate without looking at
each other or being in the same room (0.55)
56. Since cochlear implantation, there are still
some misunderstandings and difficulties
during communication (0.72)
68. During conflict, the cochlear implant
recipient can now 'back their partner up' and
take on a much more supportive role (0.30)
70. The cochlear implant helps the partner as
well because it enables the cochlear implant
recipient to hear much better (0.52)
72. The cochlear implant recipient can now
understand what their partner is saying during
a miscommunication and, as a couple, don't
just have to "leave it" (0.59)
73. The partner continues to speak slowly and
loudly to the cochlear implant recipient even
after cochlear implantation, despite the
cochlear implant recipient asking them to
speak normally (0.66)
81. We get frustrated with each other because
we can't communicate well, even after
cochlear implantation (0.65)
82. Since the couple can now communicate,
their partner can come to the cochlear implant
recipient when they are upset instead of going
to their friends (0.43)
83. The partner is relieved that after cochlear
implantation, the cochlear implant recipient
can hear them and understand what they are
saying (0.63)
87. The partner now puts in more effort to
include the cochlear implant recipient in a
conversation (0.62)
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89. The partner has to use gestures during
communication when the cochlear implant
recipient is not wearing their cochlear implant
devices (0.68)

		On Instead of the series their most and that there	
		90. Instead of showing their partner that they	
		love them, the cochlear implant recipient can	
		now just tell them that they do (0.31)	
		93. The cochlear implant recipient is much	
		more interactive and talkative in conversations	
		since cochlear implantation (0.62)	
		97. Since cochlear implantation, the cochlear	
		implant recipient can now participate in and	
		step-up to conflict (0.51)	
		100. We can engage in activities together as a	
		couple because we can communicate now	
		(0.47)	
Emotional	Positive and negative	2. Emotionally, the partner has become more	
Adjustment	emotions	sensitive to the cochlear implant recipient's	
(0.54)	experienced by both	needs after cochlear implantation (0.39)	
	partners after	4. The partner gets angry when the cochlear	
	cochlear	implant recipient takes their cochlear implant	
	implantation.	device(s) off during an argument (0.36)	
		13. The partner now has to accept that the	
		cochlear implant recipient does not want to do	
		all the things that they want to do due to how	
		difficult communication still is for them (0.54)	
		17. Following cochlear implantation, the	
		cochlear implant recipient can take their stand	
		in the house again and don't have to rely so	
		much on their partner (0.60)	
		18. The partner is not as concerned about the	
		cochlear implant recipient anymore because	
		they have become more capable on their own	
		after cochlear implantation (1.00)	
		* '	
		19. Since cochlear implantation, the partner is	
		not worried about the cochlear implant	
		recipient going somewhere on their own	
		anymore (0.48)	
		20. It is a relief that certain roles and	
		responsibilities can now be shared (0.33)	
		23. The partner is very accommodating and	
		helped the cochlear implant recipient a lot to	
		adjust after implantation (0.48)	

		26. Since cochlear implantation, the partner	
		does not tell others that the cochlear implant	
		recipient has a hearing loss anymore (0.59)	
		27. Prior to cochlear implantation, the partner's	
		role in helping the cochlear implant recipient	
		was dominant, but now the partner feels the	
		cochlear implant recipient doesn't need them	
		as much anymore (0.67)	
		48. As a couple, we still have challenges and	
		get impatient with each other (0.35)	
		51. As a couple, we can now listen to sounds	
		together and appreciate the beautiful things in	
		life (0.58)	
		59. It was difficult for the partner to adjust to	
		the fact that the cochlear implant recipient	
		does not depend on them as much anymore	
		following cochlear implantation (0.47)	
		85. Since cochlear implantation, the cochlear	
		implant recipient has an internal struggle with	
		determining the balance between being	
		independent and where they need their	
		partner's help (0.71)	
		98. The partner wants the cochlear implant	
		recipient to make an effort to improve their	
		listening skills, which puts pressure on the	
		relationship (0.54)	
		• • •	
		99. As a couple, we had to adjust to the fact	
		that the partner with the cochlear implant is	
		now seen by others as a person with a	
		disability (0.93)	
		104. The partner of the cochlear implant	
		recipient has been very supportive after	
		implantation (0.26)	
Relationship	How cochlear	22. There is a partnership between the couple	
Intimacy (0.1)	implantation	in order for the cochlear implant recipient to	
	impacted the	hear well (0.18)	
	couples'	38. Because communication is easier, couples	
	relationships with	are less frustrated with each other (0.17)	
	each other.	39. Our relationship as a couple improved	
		because it is easier to communicate (0.13)	

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		After the first switch-on, the partner was
		y empathetic and supportive towards the
		hlear implant recipient (0.18)
	50.	Cochlear implantation has done wonders
	for	us as a couple (0.00)
	52.	We can now connect on a spiritual level
	and	have deeper shared spiritual experiences
	(0.0	9)
	53.	Our relationship has deepened after
	cocl	hlear implantation (0.02)
	54.	There is less stress on our relationship after
	cocl	hlear implantation (0.00)
	55.	Following cochlear implantation, we share
	mor	re emotions with each other (0.04)
	57.	Not much has changed in our relationship
		n each other as a couple (0.02)
	64.	The cochlear implant recipient's mood has
		nged a lot for the better following cochlear
		lantation (0.12)
		The entire relationship has changed since
		hlear implantation because the cochlear
		lant recipient can attend to so much more
		otions now (0.01)
		Cochlear implantation has solved a lot of
		blems and has taken away a lot of
		stration for us (0.25)
		The cochlear implant recipient does not
		ome angry any more because they can now
		r what was said the first time (0.22)
		The fact that the cochlear implant recipient
		hear better has a positive effect on the
		•
		ples' lifestyle and relationship (0.18)
		We are more intimate and spend more time
		ether after cochlear implantation (0.02)
		We work together as a team now (0.05)
		The bond between couples and families is
		nger after cochlear implantation (0.07)
		Our relationship has improved following
	imp	lantation (0.02)
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79. We now have a better understanding of
each other (0.12)
, ,
80. We are not drifting apart anymore because
having a conversation is much less effort
(0.19)
84. Our relationship is much stronger now
because we have fewer communication
problems (0.11)
91. The fact that the cochlear implant recipient
is more confident now has had a very positive
impact on our relationship (0.09)
92. The cochlear implant recipient is more
appreciative of and grateful for their partner
(0.13)
95. Since cochlear implantation, the partner
doesn't get angry anymore if the cochlear
implant recipient can't hear; they rather laugh
about it now (0.20)
96. Since cochlear implantation, it is nice for
the partner to see that the cochlear implant
recipient has a drive to achieve more and
prove that they can be better despite their
hearing-related challenges (0.23)
103. We have a stronger bond because of
better communication between us (0.15)
105. Our personal relationship became
stronger after cochlear implantation (0.02)
106. We are more sensitive to each other's
needs following cochlear implantation (0.04)
107. The improvement in a couple's
relationship makes cochlear implantation
worthwhile (0.02)
108. We are closer to each other because we
don't "sweat the small things" anymore (0.08)
109. We are closer to each other because we
can talk about the deeper things (0.15)
110. Cochlear implantation brought us closer
together (0.02)
together (0.02)

**TABLE S4.** Welch's *t* test used to determine the average positive/ negative effect and importance rating scores between cohorts for each cluster

			Cohort differences		
Cluster (number of statements)	CI recipient average rating score a)Effect b)Importance	Partner average rating score a)Effect b)Importance	<i>t</i> -value	Degrees of freedom	p-value
Social Interactions	3.55	3.55	0.0486	18	p= 0.8611
(10)	3.60	3.61	0.0732		p=0.9425
Partner Involvement	3.50	3.25	1.5936	36	p=0.1198
(19)	3.53	3.54	0.0711		p=0.9437
Communication (31)	3.84	3.75	0.5846	60	p=0.5610
	3.71	3.74	0.2347		p=0.8153
Emotional	3.39	3.45	0.2788	32	p=0.7822
Adjustment (17)	3.43	3.51	0.4429		p=0.6608
Relationship Intimacy	4.05	4.00	0.8184	64	p=0.4162
(33)	3.78	3.88	1.3491		p=0.1821