

# Hearing Implant Sound Quality Index (HISQUI)

Questionnaire for Subjective Sound  
Quality Detection

For  
Adults



# Hearing Implant Sound Quality Index (HISQUI)

Date of questionnaire completion    \_\_\_\_ / \_\_\_\_ / \_\_\_\_ day/month/year

Date of birth    \_\_\_\_ / \_\_\_\_ / \_\_\_\_ day/month/year

Gender    Female        Male   

Hearing Status	<b>Left Ear</b>		<b>Right Ear</b>	
	Unaided hearing/normal hearing	<input type="checkbox"/>	Unaided hearing/normal hearing	<input type="checkbox"/>
	Aided with Implant	<input type="checkbox"/>	Aided with Implant	<input type="checkbox"/>
	Aided with Hearing aid	<input type="checkbox"/>	Aided with Hearing aid	<input type="checkbox"/>
	No hearing	<input type="checkbox"/>	No hearing	<input type="checkbox"/>

Duration of hearing loss    \_\_\_\_ in Years

Date of Implantation	Left Ear: day/month/year*	Right Ear: day/month/year*
	____ / ____ / ____	____ / ____ / ____

Implant Type	<b>Left Ear</b>		<b>Right Ear</b>	
	Cochlear Implant (CI)	<input type="checkbox"/>	Cochlear Implant (CI)	<input type="checkbox"/>
	Middle Ear Implant (VSB)	<input type="checkbox"/>	Middle Ear Implant (VSB)	<input type="checkbox"/>
	Bone Conduction Implant	<input type="checkbox"/>	Bone Conduction Implant	<input type="checkbox"/>
	Electric-acoustic stimulation (EAS)	<input type="checkbox"/>	Electric-acoustic stimulation (EAS)	<input type="checkbox"/>
	Auditory brainstem-implant (ABI)	<input type="checkbox"/>	Auditory brainstem-implant (ABI)	<input type="checkbox"/>
	No Implant	<input type="checkbox"/>	No Implant	<input type="checkbox"/>

\*If the exact date is not available, please specify just the year of implantation

The Questionnaire measures, how good or poorly you find the sound quality from your hearing implant in your personal, everyday listening situation.

Please check the answer boxes which correspond the closest to your everyday experiences. Each answer option also includes a percentage value. This percentage value will help you answering the questions: "almost always", for example, means that your statement is currently correct about 87% of the time.

If a specific situation/statement is not applicable, please check the box "N/A = not applicable".

	Always (99%)	Almost always (87%)	Frequently (75%)	Mostly (50%)	Occasionally (25%)	Rarely (12%)	Never (1%)	N/A
1. Can you effortlessly distinguish between a male and a female voice?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. When talking on the phone, can you effortlessly understand the voices of familiar people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. When listening to music, can you effortlessly distinguish whether one or multiple instruments are being played simultaneously?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. When background noise is present, can you effortlessly participate in a conversation with friends or family members (e.g. at a party/ in a restaurant)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Can you effortlessly hear noises such as falling keys, the beeping of the microwave or the purring of a cat?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Can you effortlessly distinguish single instruments in a familiar piece of music?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Always (99%)	Almost always (87%)	Frequently (75%)	Mostly (50%)	Occasionally (25%)	Rarely (12%)	Never (1%)	N/A
7.	You are watching a movie on TV and music is playing in the background. Provided that the volume of the TV is loud enough, can you effortlessly understand the movie's text?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	When talking on the phone, can you effortlessly understand the voices of unfamiliar people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Can you effortlessly understand speech in background noise (e.g. on the street or in a restaurant)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Can you effortlessly understand a speech/lecture in a hall (e.g. lecture hall, church)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	When background noise is present, do you have difficulties talking on the phone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Can you effortlessly distinguish between a female voice and a child's voice (6-10 years of age)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	At home when other family members are having a conversation and you are listening to the news on the radio, can you effortlessly understand the news?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Can you effortlessly understand the announcement in a bus terminal, a train station or an airport?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Can you effortlessly hear the ringing of the phone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Always (99%)	Almost always (87%)	Frequently (75%)	Mostly (50%)	Occasionally (25%)	Rarely (12%)	Never (1%)	N/A
16.	When no background noise is present, can you effortlessly participate in conversations with friends or family members (e.g. after dinner)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Provided that the volume is loud enough, can you effortlessly understand the news on TV?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	When talking on the phone, can you effortlessly distinguish between female and male voices?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	You are listening to friends or family members talking to each other in quiet surroundings. Can you effortlessly identify the talker?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Can you effortlessly distinguish specific rhythms in a familiar piece of music?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	You are seated on the back seat of a car and the driver in the front is talking to you. Can you effortlessly understand the driver?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	When no background noise is present, can you effortlessly participate in a conversation with multiple people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	Can you effortlessly allocate background noise to a specific sound source (e.g. toilet flushing or vacuum cleaner) using acoustic help only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Always (99%)	Almost always (87%)	Frequently (75%)	Mostly (50%)	Occasionally (25%)	Rarely (12%)	Never (1%)	N/A
24. When other people in your close surrounding are having a conversation (e.g. talking to a salesperson, a bank clerk at the counter or a waiter in a busy restaurant), can you effortlessly talk to another person?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. When listening to music, do you have difficulties distinguishing familiar pieces of music?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. When driving in your car with your windows closed, can you effortlessly understand the news on the radio?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. When background noise is present (e.g. in the office, printer, copier, air conditioning, fan, traffic noise, in busy restaurants, at parties, noisy children), can you effortlessly participate in a conversation with multiple people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. You are in a room together with other people and music is playing on the radio. When another person is talking, do you have difficulties distinguishing between the person's voice and the music?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29. When multiple people are talking simultaneously, can you effortlessly follow discussions of friends and family members?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

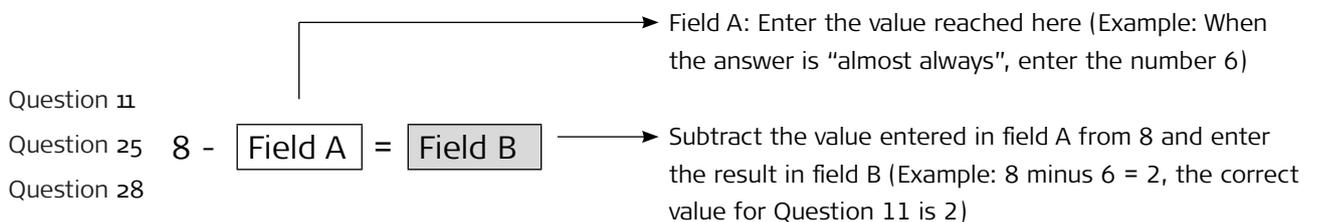
Thank you very much for your support!

## Calculation of the Total score (to be filled out by the tester):

The total HISQUI score lies between 29 and 203 points. Each response option corresponds to a numerical value (see below).

7 Always	6 Almost always	5 Frequently	4 Mostly	3 Occasionally	2 Rarely	1 Never	X N/A
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Please enter the numerical value of each of the 29 questions in the HISQUI evaluation matrix shown below. If a question was not answered or the answer was "not applicable" (N/A), that question should be treated as a missing value. In the appropriate box in the HISQUI evaluation matrix mark the field concerned with an X. **Please note that 3 questions (Questions 11, 25 and 28) are formulated inversely and must therefore be recoded, as shown in the following example, before the total score is calculated:**



### HISQUI Evaluation Matrix

Question 1	<input type="text"/>	Question 16	<input type="text"/>
Question 2	<input type="text"/>	Question 17	<input type="text"/>
Question 3	<input type="text"/>	Question 18	<input type="text"/>
Question 4	<input type="text"/>	Question 19	<input type="text"/>
Question 5	<input type="text"/>	Question 20	<input type="text"/>
Question 6	<input type="text"/>	Question 21	<input type="text"/>
Question 7	<input type="text"/>	Question 22	<input type="text"/>
Question 8	<input type="text"/>	Question 23	<input type="text"/>
Question 9	<input type="text"/>	Question 24	<input type="text"/>
Question 10	<input type="text"/>	Question 25	8 - <input type="text"/> = <input type="text"/>
Question 11	8 - <input type="text"/> = <input type="text"/>	Question 26	<input type="text"/>
Question 12	<input type="text"/>	Question 27	<input type="text"/>
Question 13	<input type="text"/>	Question 28	8 - <input type="text"/> = <input type="text"/>
Question 14	<input type="text"/>	Question 29	<input type="text"/>
Question 15	<input type="text"/>		
Total score		<input type="text"/>	

The total HISQUI score is obtained by adding the numerical values of all 29 questions. The score achieved overall indicates how good or poorly you find the sound quality in your personal, everyday listening situation with your hearing implant. The table should help you to interpret your individual result.

#### Achieved Total Score

very poor sound quality	< 60
poor sound quality	60 - 90
moderate sound quality	90 - 120
good sound quality	120 - 150
very good sound quality	150 - 203

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