

Appendix A: Participant Information and Self-Selected Frequency Range

Eight participants had Cochlear™ devices, three had MED-EL™ devices, and three had Advanced Bionics™ devices. All participants had clinical maps programmed with the default frequency allocation tables for their respective devices. All participants were unilaterally deafened as adults and were fluent speakers of English. A few participants had channels turned off and their acoustic models reflected that. There was one minor exception: there were two testing sessions where the analysis filter banks of the acoustic model had one more channel than the map in the speech processor, but the low- and high-frequency edges of the analysis filter bank were still the same as those in the participant’s Frequency Allocation Table.

Subject	Device Manufacturer	Processor	Implant	Electrode	Active Electrodes	Frequency Range of Device	Frequency Range of Self-Selected**	Tones (T) or Noise Bands (N) or Average (A)	Age	Time Post Initial Stimulation (Years)	Onset	Etiology	Length of Deafness	Fig. 2 Bar Number (per Manufacturer)
CI78	Cochlear	N5	Nucleus Profile	512	22	188-7938	626-8644	A	64.65	2.24	Sudden	Unknown	0.87	8
CI78	Cochlear	N5	Nucleus Profile	512	22	188-7938	438-7938	A	65.51	3.10	Sudden	Unknown	0.87	5
CI78	Cochlear	N5	Nucleus Profile	512	22	188-7938	313-12100	N	66.51	4.10	Sudden	Unknown	0.87	3
CI146	Cochlear	N5	Freedom	24RE	22	188-7938	313-14924	N	36.84	0.29	Sudden	Labyrinthitis	0.62	4
CI146	Cochlear	N5	Freedom	24RE	22	188-7938	188-14924	N	37.08	0.54	Sudden	Labyrinthitis	0.62	1
CI167	Cochlear	N5	Freedom	24RE	21*	188-7938	188-14924	A	63.55	0.08	Progressive	Meniere's	NA^	2
CI167	Cochlear	N5	Freedom	24RE	21*	188-7938	1188-5933	A	63.82	0.35	Progressive	Meniere's	NA^	14
CI169	Cochlear	N5	Freedom	24RE	21*	188-7938	938-7938	T	27.49	0.14	Sudden	Unknown	1.21	11
CI171	Cochlear	N5	Freedom	24RE	22	188-7938	563-6421	N	65.84	0.28	Sudden	Unknown	1.79	6
CI171	Cochlear	N5	Freedom	24RE	22	188-7938	813-5188	N	67.01	1.45	Sudden	Unknown	1.79	9
CI193	Cochlear	N6	Freedom	24RE	22	188-7938	1313-5188	T	63.05	0.46	Sudden	Unknown	1.72	16
CI208	Cochlear	N6	Nucleus Profile	512	22	188-7938	1230-4562	A	64.45	0.13	Sudden	Unknown	0.58	15
CI208	Cochlear	N6	Nucleus Profile	512	22	188-7938	1063-3372	N	64.92	0.60	Sudden	Unknown	0.58	12
CI208	Cochlear	N6	Nucleus Profile	512	22	188-7938	1063-4186	T	65.94	1.61	Sudden	Unknown	0.58	13
CI216	Cochlear	N6	Nucleus Profile	512	22	188-7938	813-7938	N	54.26	0.00	Sudden	Unknown	0.51	10
CI216	Cochlear	N6	Nucleus Profile	512	22	188-7938	563-7938	N	54.42	0.17	Sudden	Unknown	0.51	7
CI214	MED-EL	Sonnet	Synchrony	Flex28	12	100-8500	50-6878	N	49.87	0.03	Sudden	Unknown	1.02	1
CI214	MED-EL	Sonnet	Synchrony	Flex28	12	100-8500	75-6477	A	50.03	0.20	Sudden	Unknown	1.02	2
CI214	MED-EL	Sonnet	Synchrony	Flex28	12	100-8500	100-7672	A	50.32	0.48	Sudden	Unknown	1.02	5
CI214	MED-EL	Sonnet	Synchrony	Flex28	12	100-8500	100-5560	N	51.25	1.42	Sudden	Unknown	1.02	3
CI219	MED-EL	Sonnet	Synchrony	Flex28	11*	100-8500	1227-4488	T	59.22	0.00	Sudden	Unknown	0.96	8
CI219	MED-EL	Sonnet	Synchrony	Flex28	11*	100-8500	100-6878	N	60.22	1.00	Sudden	Unknown	0.96	4
CI220	MED-EL	Sonnet	Synchrony	Flex28	12	100-8500	161-4488	T	66.02	0.00	Progressive	Meniere's	NA^	6
CI220	MED-EL	Sonnet	Synchrony	Flex28	11*	100-8500	161-5560	N	66.50	0.48	Progressive	Meniere's	NA^	7
CI154	AB	Naida CI Q70	HiRes 90K	HiFocus1J	16	250-8700	250-10013	T	53.53	0.25	Sudden	Labyrinthitis	1.61	1
CI154	AB	Naida CI Q70	HiRes 90K	HiFocus1J	16	250-8700	312-8700	T	53.71	0.43	Sudden	Labyrinthitis	1.61	3
CI154	AB	Naida CI Q70	HiRes 90K	HiFocus1J	16	250-8700	281-11971	A	54.88	1.59	Sudden	Labyrinthitis	1.61	2
CI162	AB	Naida CI Q90	HiRes 90K	HiFocus1J	16	250-8700	463-6560	T	48.13	0.56	Sudden	Peri-operative	2.51	4
CI212	AB	Naida CI Q90	HiRes 90K Advantage	HiFocus Mid-Scala	16	250-8700	556-15241	T	30.87	0.21	Sudden	Unknown	2.65	6
CI212	AB	Naida CI Q90	HiRes 90K Advantage	HiFocus Mid-Scala	16	250-8700	556-11521	T	31.13	0.48	Sudden	Unknown	2.65	5
CI212	AB	Naida CI Q90	HiRes 90K Advantage	HiFocus Mid-Scala	16	250-8700	625-12387	A	31.71	1.05	Sudden	Unknown	2.65	7

\*The participant had the most basal electrode deactivated

\*\*For tone models, sinusoidal tones are presented at the center frequency of the output noise band

^Two participants had progressive fluctuating hearing loss