

Supplementary Material 2: Statistics

The complete statistical results are presented per paragraph from the Results section. P-values <0.05 are considered statistically significant.

Data analysis was performed using SPSS Statistics software version 22.

3.2 Pitch match

Group	Electrode	2-sided T-test					
		Stakhovskaya reference			Cochlear reference		
		t	df	p	t	df	p
CI422	3	-6.076	13	0.000	-3.519	13	0.004
	7	-11.668	15	0.000	-7.393	15	0.000
	11	-15.428	15	0.000	-9.866	15	0.000
	15	-11.472	15	0.000	-6.659	15	0.000
	19	-9.959	15	0.000	-4.568	15	0.000
CI512	3	-5.443	11	0.000	-2.373	11	0.037
	7	-5.762	11	0.000	-2.799	11	0.017
	11	-6.011	11	0.000	-2.428	11	0.034
	15	-5.73	11	0.000	-1.493	11	0.164
	19	-5.319	11	0.000	-0.788	11	0.447

Two-sided one sample T-test.

3.3 Mismatch

3.3.1 Within group comparisons

Group	E3	E7	E11	E15	E19
CI422	p = 0.735	p = 0.208	p = 0.674	p = 0.779	p = 0.889
CI512	p = 0.345	p = 0.345	p = 0.463	p = 0.046	p = 0.046

Wilcoxon signed rank test (between Test and Re-test, per group).

3.3.2 Between group comparisons

Experiment	E3	E7	E11	E15	E19
Test	p = 0.568	p = 0.606	p = 0.039	p = 0.093	p = 0.366
Re-test	p = 0.317	p = 0.699	p = 0.039	p = 0.014	p = 0.121

Mann Whitney U test (between CI422 and CI512 groups, per experiment)

3.4 Correlations

Patient characteristic	Group	Relative to Stakhovskaya reference
Age	CI422	$R^2 = 0.1318, P = 0.378$
	CI512	$R^2 = 0.1846, P = 0.396$
	All patients	$R^2 = 0.1407, P = 0.187$
Duration of deafness	CI422	$R^2 = 0.0005, P = 0.954$
	CI512	$R^2 = 0.1233, P = 0.500$
	All patients	$R^2 = 0.0024, P = 0.870$
Experience with CI at Test	CI422	$R^2 = 0.0783, P = 0.502$
	CI512	$R^2 = 0.1917, P = 0.387$
	All patients	$R^2 = 0.0003, P = 0.953$
Experience with CI at Re-test	CI422	$R^2 = 0.0985, P = 0.449$
	CI512	$R^2 = 0.1302, P = 0.483$
	All patients	$R^2 = 0.0000, P = 0.991$
PTA _{be}	CI422	$R^2 = 0.4719, P = 0.060$
	CI422 (excl Pt 8)	$R^2 = 0.6342, P = 0.032$
	CI512	$R^2 = 0.8259, P = 0.012$
	All patients	$R^2 = 0.3560, P = 0.024$
CVC 3m	CI422	$R^2 = 0.5541, P = 0.034$
	CI422 (excl Pt 8)	$R^2 = 0.1709, P = 0.356$
	CI512	$R^2 = 0.2248, P = 0.343$
	All patients	$R^2 = 0.2737, P = 0.055$

CVC 3m = Consonant-Vowel-Consonant phoneme score at 3 months after CI-activation for the CI-ear only (better ear masked with masking noise)

PTA_{be} = Pure Tone Average of the better ear (500, 1000, 2000 and 4000 Hz).

Supplementary Material to manuscript:

Manuscript Title:

Comparison of place-versus-pitch mismatch between a perimodiolar and lateral wall cochlear implant electrode array in patients with single-sided deafness and a cochlear implant

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