

**Supplementary Table 1.** Mean and SD of hearing thresholds

	250 Hz	500 Hz	1 kHz	2 kHz	3 kHz	4 kHz	8 kHz	PTA
Right								
tVNS	16.8±7.8	17.3±7.9	19.1±9.7	23.6±11.4	29.6±18.9	33.2±22.4	50.9±30.8	22.4±10.9
tRNS	13.5±12.3	13.1±13.8	17.7±16.8	25.4±21.1	27.7±23.2	27.3±22.3	32.9±30.0	21.0±16.9
p-value	0.207	0.252	0.459	>0.999	0.691	0.494	0.151	
Left								
tVNS	16.8±7.2	19.1±8.3	22.7±10.1	25.0±9.2	33.2±19.5	39.6±19.8	49.6±26.1	25.0±10.4
tRNS	15.4±13.0	13.1±12.3	15.0±15.0	23.5±19.3	28.1±23.5	29.2±23.1	34.2±24.3	19.9±15.6
p-value	0.361	0.082	0.106	0.733	0.459	0.252	0.118	

Data are presented as mean±SD. SD, standard deviation; tRNS, transcranial random noise stimulation; tVNS, transcutaneous vagus nerve stimulation; PTA, pure-tone averages across 500, 1000, 2000, and 3000 Hz