Table S1. Mean (Standard Deviation) and group comparison for parents' BMEQ scales.

Mothers' BMEQ scores				
	RTr+	RTr–	t	p
Commitment to music	1.96 (0.67)	2.03 (0.39)	0.267	0.792
Innovative musical aptitude	1.83 (0.80)	1.78 (0.90)	-0.153	0.880
Social uplift	3.50 (0.65)	3.16 (0.85)	-1.085	0.290
Affective reactions	4.09 (0.39)	4.11 (0.49)	0.095	0.925
Positive psychotropic effects	3.03 (0.59)	2.98 (0.52)	-0.233	0.818
Reactive musical behavior	3.69 (0.68)	3.57 (0.82)	-0.408	0.687

Fathers' BMEQ scores				
	RTr+	RTr–	t	p
Commitment to music	2.45 (0.73)	2.09 (0.58)	-1.310	0.204
Innovative musical aptitude	2.09 (0.63)	2.32 (1.02)	0.654	0.520
Social uplift	2.83 (0.69)	2.73 (0.59)	-0.394	0.697
Affective reactions	4.04 (0.39)	4.18 (0.37)	0.879	0.389
Positive psychotropic effects	3.11 (0.56)	3.01 (0.73)	-0.365	0.719
Reactive musical behavior	3.40 (0.58)	3.49 (0.84)	0.324	0.749

Table S2. Mean (Standard Deviation) and group comparison for pre-training ERP indices considered in the study.

	RTr+ subsample with ERP data (N = 11)	RTr– sample with ERP data (N = 14)	t	p
N2* DEVD Left Amplitude	-1.20 (1.03)	-1.18 (1.94)	0.020	0.985
N2* DEVD Right Amplitude	-0.83 (2.04)	-0.38 (2.83)	0.448	0.658
N2* DEVD Left Latency	345.21 (19.73)	328.48 (21.03)	-2.029	0.054
N2* DEVD Right Latency	331.60 (26.21)	329.37 (19.76)	-0.243	0.810
MMR DEVF Left Mean Amplitude	5.23 (2.59)	3.02 (2.75)	-2.045	0.052
MMR DEVF Right Mean Amplitude	3.46 (3.81)	3.94 (2.73)	0.365	0.718
MMR DEVD Left Mean Amplitude	2.87 (2.50)	3.51 (2.50)	0.638	0.530
MMR DVD Right Mean Amplitude	1.95 (2.01)	3.10 (3.18)	1.044	0.307