Supplemental Table S1. Plasticity measures in the AD sample from Boston (n=21) at baseline and after the end of the intervention (T5, T10, T20, T30).

		T5 pre	T10 pre	T20 pre	T30 pre	T5 post	T10 post	T20 post	T30 post
	_								
Real/	Mean	0.94	0.97	1.19	1.06	1.08	1.19	1.17	1.10
real	SD	0.36	0.54	1.46	0.56	0.60	0.43	0.48	0.41
Sham/	Mean	0.86	0.99	1.12	1.00	1.38	1.28	1.50	1.16
sham	SD	0.19	0.26	0.37	0.26	0.29	0.38	0.70	0.40
Real/	Mean	1.49	1.37	1.17	1.26	1.48	1.17	1.54	1.30
sham	SD	0.41	0.56	0.52	0.50	0.94	0.68	0.89	0.82

Supplemental Table S2. ADAS-Cog results from each site (Boston and Rome) and combined results.

		Real/rea		Sham/sham		Real/sham	
		Mean	SD	Mean	SD	Mean	SD
Boston	Pre	22.60	10.90	22.81	12.48	25.20	10.46
	Post	20.77	11.95	23.48	10.08	25.39	10.22
	FU	17.80	9.11	-	-	24.34	8.97
	N	10	10	6	6	5	5
Rome	Pre	23.67	8.98	26.00	9.90	25.00	10.05
	Post	20.83	11.07	26.00	9.90	24.00	11.34
	FU	21.33	9.14	23.50	6.363961	22.40	13.90
	N	6	6	2	2	5	5
Total	Pre	23.00	2.48	23.61	3.99	25.10	3.06
	Post	20.79	2.81	24.11	3.31	24.70	3.23
	FU	19.13	2.25	23.50	4.50	23.37	3.50
	N	16	16	8	8	10	10

Supplemental results

Before adding the results from Rome to the results from Boston, we find very similar results. In Boston, the largest score change in ADAS-Cog within one month after the end of intervention was significantly different between groups (Boston: H[2]=11.626, p= 0.003; Boston combined with Rome: (H[2]=10.16, p=0.006)). Post-hoc tests also revealed a significantly higher improvement in the real/real group as compared to the sham/sham group (Boston: U = 58, z = 3.04, p = 0.001, r = 0.76; Boston combined with Rome: (U=115, z=3.13, p=0.001, r=0.64)). However, while the real/real group was also significantly different form the real/sham group in Boston (U = 43, z = 2.21, p = 0.028, r = 0.57), this difference became non-significant after combining the results from Boston with Rome (U=110, z=1.56, p=0.121, r=0.31).