

**Supplementary Table 1.** Subgroup (patients with fMRI) comparison of demographic characteristics and changes in clinical symptoms between verum and sham treatment groups

Characteristics	Verum group with fMRI analysis (N=9)	Sham group with fMRI analysis (N=10)	Analyses (p)	Effect size
Age (yr)	31.9±9.8	40.4±12.0	p=0.130	d=0.73
Sex, male/female	4/5	5/5	p=0.809	d=0.11
Years of education (yr)	14.3±1.6	14.5±2.2	p=0.604	d=0.24
Use of antidepressants, yes/no	4/5	4/6	p=0.845	d=0.09
K-WAIS	119.3±12.7	125.3±11.7	p=0.189	d=0.63
MADRS				partial $\eta^2$
Baseline	27.0±8.4	30.2±8.6	MT: p<0.001*	0.58
End of treatment	16.4±7.2	27.5±8.8	MG: p=0.028*	0.25
Follow-up	15.0±7.8	26.5±9.1	Int: p=0.008*	0.30
QIDS-SR				partial $\eta^2$
Baseline	20.9±6.4	22.2±6.7	MT: p<0.001*	0.48
End of treatment	11.2±5.8	16.4±5.4	MG: p=0.111	0.14
Follow-up	11.2±7.6	16.3±6.4	Int: p=0.384	0.05
SSI				partial $\eta^2$
Baseline	15.0±9.8	17.7±8.8	MT: p=0.002*	0.40
End of treatment	6.0±6.7	16.7±8.8	MG: p=0.050*	0.21
Follow-up	6.0±7.2	15.3±8.9	Int: p=0.026*	0.24
K-POMS_total				partial $\eta^2$
Baseline	113.7±37.7	110.6±42.6	MT: p<0.001*	0.49
End of treatment	50.7±37.0	99.1±49.7	MG: p=0.109	0.14
Follow-up	55.2±36.7	99.4±48.1	Int: p=0.006*	0.31

Values are presented as mean±standard deviation, number (%), or numbers only. \*p<0.05. fMRI, functional magnetic resonance imaging; MT, main effect of time (session sequence); MG, main effect of group; Int, group-by-session sequence interaction effect; K-WAIS, Korean Wechsler Adult Intelligence Scale; MADRS, Montgomery-Åsberg Depression Rating Scale; QIDS-SR, Quick Inventory of Depressive Symptomatology-Self Report; SSI, Scale for Suicide Ideation; K-POMS, Korean edition of the Profile of Mood States