

**Supplementary Table 2.** Comparison of clinical characteristics and biological data in MDD patients with and without depressive mixed state (DMX)

	DMX-negative (N=66)	DMX-positive (N=30)	p
Age at baseline (yr)	45.0 (31.8–64.3)	38.5 (24.0–51.3)	0.075*
Sex, male/female	27/39 (41/59)	11/19 (37/63)	0.694†
BMI (kg/m <sup>2</sup> )	21.8 (19.1–24.7)	22.0 (18.5–26.0)	0.879*
Brinkman index	0 (0–0)	0 (0–105.0)	0.444*
Imipramine equivalence (mg)	0 (0–112.5)	0 (0–81.3)	0.790*
Chlorpromazine equivalence (mg)	0 (0–0)	0 (0–0)	0.668*
Total score of the QIDS-SR-J	14.7±5.1	18.7±4.2	<0.001‡
IL-6 (pg/mL)	1.3 (0.8–2.2)	1.6 (1.1–2.2)	0.326*
TNF- $\alpha$ (pg/mL)	0.9 (0.7–1.1)	1.0 (0.8–1.1)	0.495*
High-sensitivity CRP (mg/L)	0.3 (0.1–0.9)	0.3 (0.1–1.3)	0.767*
Serum BDNF concentration (ng/mL)	26.9±7.7	30.4±7.9	0.043‡

\*Mann–Whitney U test (data in median and range); †chi-squared test (data in number and percentage); ‡independent sample t-test (data in mean±standard deviation). MDD, major depressive disorder; BMI, body mass index; QIDS-SR-J, Quick Inventory of Depressive Symptomatology Self- Report Japanese version; IL-6, interleukin-6; TNF- $\alpha$ , tumor necrosis factor-alpha; CRP, C-reactive protein; BDNF, brain-derived neurotrophic factor