

1 SUPPLEMENTARY MATERIAL

Table 1: Group comparisons of voxel composition (mean and SD)

		Migraine	Control	Comparison
Thalamus	GM	0.39 (0.03)	0.39 (0.03)	F(2,50)=0.644, p=0.426
	WM	0.44 (0.03)	0.44 (0.04)	F(2,50)=0.037, p=0.849
	CSF	0.16 (0.04)	0.17 (0.04)	F(2,50)=0.656, p=0.422
Sensory Motor Cortex	GM	0.45 (0.06)	0.44 (0.05)	F(2,50)=0.524, p=0.473
	WM	0.47 (0.08)	0.48 (0.06)	F(2,50)=0.712, p=0.403
	CSF	0.08 (0.04)	0.08 (0.03)	F(2,50)=0.332, p=0.567
Visual Cortex	GM	0.76 (0.03)	0.77 (0.04)	F(2,49)=1.712, p=0.197
	WM	0.11 (0.03)	0.10 (0.03)	F(2,49)=0.668, p=0.418
	CSF	0.13 (0.04)	0.13 (0.04)	F(2,49)=0.385, p=0.538

GM: grey matter; WM: white matter; CSF: cerebrospinal fluid.

Table 2: Group comparisons of other metabolites measured using PRESS (mean and SD)

		Migraine	Control	Comparison
Thalamus	tNAA	17.48 (2.09)	17.85 (1.06)	F(2,53)=0.386, p=0.537
	tCr	12.10 (1.50)	12.50 (0.89)	F(2,53)=1.195, p=0.279
	tCHO	3.30 (0.54)	3.42 (0.34)	F(2,53)=0.641, p=0.427
	mI	9.30 (1.34)	9.88 (1.05)	F(2,53)=2.974, p=0.090
Sensory Motor Cortex	tNAA	16.02 (1.96)	15.95 (1.05)	F(2,51)=0.036, p=0.850
	tCr	11.36 (1.33)	11.49 (1.14)	F(2,51)=0.448, p=0.507
	tCHO	2.29 (0.33)	2.34 (0.24)	F(2,51)=0.378, p=0.541
	mI	8.62 (1.21)	8.96 (0.85)	F(2,51)=1.105, p=0.298
Visual Cortex	tNAA	16.70 (1.90)	16.78 (2.27)	F(2,49)=0.008, p=0.931
	tCr	12.23 (1.13)	12.54 (1.11)	F(2,49)=1.635, p=0.207
	tCHO	1.59 (0.17)	1.70 (0.31)	F(2,49)=2.041, p=0.159
	mI	9.82 (1.08)	10.12 (1.14)	F(2,49)=0.822, p=0.369

tNAA: N-acetylaspartate (NAA) + N-acetylaspartylglutamate (NAAG); tCr: creatine (Cr) + phosphocreatine (PCr); tCHO: choline (Cho) + phosphocholine (PCh) + glycerophosphocholine (GPC); mI: myo-Inositol