

Supplementary Table1. Relaxation times and relative water tissue content values

compartment	Water concentration (mmol H2O / kg tissue)	T1 (ms)	T2 (ms)
CSF	55556	4000	2000
GM	43300	1200	100
WM	35880	800	80

Supplementary Table2. Spectrum qualities and tissue heterogeneity values

	Caudate (mean ± SD)	dACC (mean ± SD)
FWHM (Hz)	0.063±0.008	0.037±0.005
SNR	15.364±2.150	23.852±4.148
%SD Glx	8.364±1.965	5.185±0.786
GM/(GM+WM)	35.458±5.616	74.237±3.742
GM ratio	0.286±0.045	0.532±0.032
WM ratio	0.524±0.076	0.186±0.035
CSF ratio	0.190±0.076	0.282±0.047

Supplementary Figure 1: The flowchart showing the reasons for exclusion from the analyses

