

SUPPLEMENTARY TABLES

Supplementary Table 1: Acquisition protocols for conventional MRI.

	TR	TE	TI	FOV	Slice thickness	Matrix size	Acquisition time
Conventional T1	2682 ms	22.2 ms	825.2 ms	22×19.8 cm	5 mm	320×256	2 min and 20 s
Conventional T2	6184 ms	124.8 ms	-	22×22 cm	5 mm	480×480	2 min and 13 s
Conventional FLAIR	9000 ms	123.2 ms	2460 ms	22×19.8 cm	5 mm	320×224	2 min and 50 s
Conventional DWI	9222 ms	73.4 ms	-	22×22 cm	5 mm	128×254	1 min and 8 s
SWAN	42.2 ms	24.5 ms	-	24.5×17.2 cm	2.4 mm	384×288	3 min and 14 s

FLAIR: Fluid-attenuated inversion recovery, DWI: Diffusion-weighted imaging, MRI: Magnetic resonance imaging, TR: Time to repetition, TE: Echo time, TI: Inversion time, FOV: Field of view, ms: Milliseconds, SWAN: Susceptibility-weighted angiography.

Supplementary Table 2: Acquisition protocols for EPIMix.

	TR	TE	TI	FOV	Slice thickness	Matrix size
EPIMix T1	1300 ms	19.1 ms	581.7 ms	24×24 cm	4 mm	180×180
EPIMix T2	2739 ms	109 ms	-	24×24 cm	4 mm	180×180
EPIMix FLAIR	5816 ms	114.8 ms	2751.8 ms	24×24 cm	4 mm	180×180
EPIMix DWI	2739 ms	109 ms	-	24×24 cm	4 mm	180×180
EPIMix T2*	2855 ms	30.4 ms	-	24×24 cm	4 mm	180×180

EPIMix: Echo-planar image mix, FLAIR: Fluid-attenuated inversion recovery, DWI: Diffusion-weighted imaging, T2*: Gradient echo imaging, TR: Time to repetition, TE: Echo time, TI: Inversion time, FOV: Field of view, ms: Milliseconds

Supplementary Table 3: Percentage agreement for scores given by the two radiologists for EPIMix sequences.

Sequence	Parameter	Percentage agreement
EPIMix-T1	Overall quality	94
	Motion artifacts	92
	Susceptibility artifacts	94
EPIMix-T2	Overall quality	92
	Motion artifacts	96
	Susceptibility artifacts	90
EPIMix-FLAIR	Overall quality	94
	Motion artifacts	96
	Susceptibility artifacts	94
EPIMix-DWI	Overall quality	94
	Motion artifacts	96
	Susceptibility artifacts	96
EPIMix-GRE	Overall quality	92
	Motion artifacts	98
	Susceptibility artifacts	96

EPIMix: Echo-planar image mix, FLAIR: Fluid-attenuated inversion recovery, DWI: Diffusion-weighted imaging, GRE: Gradient echo

Supplementary Table 4: Percentage agreement for scores given by the two radiologists for conventional sequences.

Sequence	Parameter	Percentage agreement
T1	Overall quality	98
	Motion artifacts	94
	Susceptibility artifacts	96
T2	Overall quality	98
	Motion artifacts	98
	Susceptibility artifacts	92
FLAIR	Overall quality	98
	Motion artifacts	96
	Susceptibility artifacts	92
DWI	Overall quality	96
	Motion artifacts	94
	Susceptibility artifacts	92
SWI	Overall quality	98
	Motion artifacts	96
	Susceptibility artifacts	96

FLAIR: Fluid-attenuated inversion recovery, DWI: Diffusion-weighted imaging, SWI: Susceptibility-weighted imaging