

Supplementary Table 1. Imaging protocol

	3D T1w Pre	Ax 2D FLAIR	Ax 2D DWI	Ax 2D T2w	DSC-MRI ¹	3D T1w Post
Sequence	IR-GRE	TSE	EPI	TSE	GRE EPI	IR-GRE
Plane	Sagittal/Axial	Axial	Axial	Axial	Axial	Sagittal/Axial
Mode	3D	2D	2D	2D	2D	3D
TR [ms]	2100	>600	>5000	>2500	1000–1500	2100
TE [ms]	Min	100–140	Min	80–120	45	Min
TI [ms]	1100	2000				1100
Flip angle [°]	10–15	90/160	90/180	90/160	30	10–15
Frequency	256	256	128	256	128	256
Phase	256	256	128	256	128	256
NEX	1	1	1	1	1	1
FOV [mm]	256	240	240	240	220–240	256
Slice thickness [mm]	1	4	4	4	3–5	1
Gap/Spacing [mm]	0	0	0	0	0	0
			<i>b</i> = 0.5, 1000			
Diffusion options			s/mm ²			
Perfusion timepoints					50 baseline, 120 total	
Parallel imaging	Up to 2x	Up to 2x	Up to 2x	Up to 2x	Up to 2x	Up to 2x

FLAIR – fluid-attenuated inversion recovery, *DWI* – diffusion-weighted imaging, *DSC* – dynamic susceptibility contrast, *MRI* – magnetic resonance imaging