

Supplementary Table 1. MR Scan Parameters

Scan Parameters	Verio/Skyra (Siemens)
Field strength (T)	3.0
Head coil channel	32
T1	
TR (ms)	558
TE (ms)	9.8
FA (°)	70
NEX	1
Matrix	384 x 187
Section thickness (mm)	5
FOV (mm)	175 x 220
3D MPRAGE	
TR (ms)	1370–1600
TE (ms)	1.9–2.8
FA (°)	9
NEX	1
Matrix	256 x 232
Section thickness (mm)	1
FOV (mm)	220 x 250
T2	
TR (ms)	5100–5160
TE (ms)	89–91
FA (°)	124–150
NEX	3
Matrix	640 x 510–580
Section thickness (mm)	5
FOV (mm)	199 x 220
FLAIR	
TR (ms)	8000–9000
TE (ms)	90–97
Inversion time (ms)	2300–2500
FA(°)	130–150
NEX	1
Matrix	384 x 348
Section thickness (mm)	5
FOV (mm)	199 x 220
DCE*	
TR (ms)	2.8
TE (ms)	1.0
FA (°)	10
NEX	1
Matrix	192 x 192
Section thickness (mm)	3
FOV (mm)	240 x 240
Voxel size (mm ³)	1.25 x 1.25 x 3
Pixel bandwidth (Hz)	789
Total acquisition time	5 min 8 sec

*DCE MR imaging was acquired after intravenous administration of gadobutrol (Gadovist; Bayer AG) at dose of 0.1 mmol/kg of body weight, at rate of 4 mL/s using power injector (MEDRAD® Spectris Solaris; Bayer). After contrast, 30 mL saline bolus was injected at same injection rate. DCE = dynamic contrast-enhanced, FA = flip angle, FLAIR = fluid-attenuated inverse recovery, FOV = field of view, MR = magnetic resonance, NEX = number of excitation, T = Tesla, TE = echo time, TR = repetition time, 3D MPRAGE = three-dimensional magnetization-prepared rapid acquisition with gradient echo