







ABCD-21-13-90203

Refractory Epilepsy Protocol: 3T (Adult)

MRI PROTOCOL

Field Strength: 3T only Coil: Multi-channel head coil Position: Supine, arms down Orientation: Head first

Scan Prescription: Axial: Parallel to subcallosal plane for prescription or reformats **Coverage**: Include entire brain for all sequences

Coronal: Perpendicular to subcallosal plane for prescription or reformats

Sequence	FOV (pFOV)	Thickness (Gap)	Resolution	Phase	TR	TE	Comments			
Cor or Sag 3D FSPGR/MPRAGE	256 mm	1 mm	256 x 256	L-R/A-P			Reformat to include three planes			
Cor or Sag 3D FLAIR	256 mm	1 mm	256 x 256	L-R/A-P			Reformat to include three planes			
Cor T2 FSE/TSE	240 mm	3 mm (0.2 mm)	512f x 448p	L-R			Perpendicular to subcallosal line			
Ax T2 FSE/TSE	240 mm	3 mm (0.2mm)	512f x 320p	L-R			Parallel to subcallosal line			
Ax 3D SWI	240 mm	1.6 mm	320f x 256p	L-R						
optional Axial DWI (B0, B1000,	28.0	5.0mm (0.5mm)	192f x 128p	A/P						
ADC)										
optional Give Contrast – Single dose per site standards										
optional Cor or Sag 3D	256 mm	1 mm	256 x 256	L-R/A-P			Reformat to include three planes			
FSPGR/MPRAGE post-gad										

Notes:

1. This detailed 3T protocol applies to refractory epilepsy.

2. For all sequences, include the entire brain.

Effective date: 14-MAR-2023 LMMI Professional Practice Page 1 of 2





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Owners:	MRI Regional Practice Lead, LMMI									
1										
Revision	Version	Date	Description/		Revised By					
History:			Key Changes		(Name and					
					Position)					
	1.0	14-MAR-2023	Initial Release		Sam Yim, MRI					
					RPL					

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