

Refractory Epilepsy Protocol: 3T (Adult)**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, ADC)	28.0	5.0mm (0.5mm)	192f x 128p	A/P			
optional Give Contrast – Single dose per site standards							
optional Cor or Sag 3D FSPGR/MPRAGE post-gad	256 mm	1 mm	256 x 256	L-R/A-P			Reformat to include three planes

Notes:

1. This detailed 3T protocol applies to refractory epilepsy.
2. For all sequences, include the entire brain.

Effective Date:	14-MAR-2023			
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Approved By:	MIEC	MRI PPC (3T sites only)	MRI MPL	
	2023-FEB-08	2022-DEC-16	2022-DEC-16	
Owners:	MRI Regional Practice Lead, LMMI			
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Revision History:	Version	Date	Description/ Key Changes	Revised By (Name and Position)
	1.0	14-MAR-2023	Initial Release	Sam Yim, MRI RPL