

# MRI Standard Parameters

Parameter	T1 SE/FSE	T2 FSE	STIR IR-FSE	T2 FLAIR IR-FSE	GRE	DWI
TR	400-700	3000+	3000+	9000+	VAR	8000+
TE	MIN; <30	85-120	40-70	90-120	In phase	MIN; ~70-100
ETL	3-5 If FSE	16-32	12-24	16-28	N/A	N/A
BANDWIDTH	15khz/31khz	20khz	20khz	20khz	VAR	63khz+
FREQ (pixel)	.5 - .8mm	.5 - .8mm	.8 - 1.2mm	.8 - 1mm	1mm	1.3mm
PHASE (pixel)	.5 - .8mm	.5 - .8mm	.8 - 1.2mm	.8 - 1mm	1mm	1.3mm
NEX	2 - 4	2 - 4	2 - 4	2 - 4	2 - 4	4 - 12
SLICE THICKNESS	2 - 3mm	2 - 3mm	2 - 3mm	2 - 3mm	2 - 3mm	2 - 5mm
SLICE SPACING	10%	10%	10%	10%	10%	10%
NOTES	-Pre and post contrast -Choose FSE for metal artifacts	-High ETL may cause blurring -If using FatSat, decrease TE to 70-80 -TE 500+ for myelo	-Superior FatSat over large FOV -Do not scan post contrast - Low inherent SNR	-Sensitive to subtle contrast -Scan with 2 concat -Keep TR very long	Many variants -T1: FLASH;VIBE -T2*:GRE;MEDIC -T2* for Hemo - -Can be 3D for thin slice -Can be 3D for isotropic	-Low resolution -Low SNR -Not sensitive to gad -Scan for ischemia -EPI artifacts

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