

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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