

# 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<br>-Choose FSE for metal artifacts | -High ETL may cause blurring<br>-If using FatSat, decrease TE to 70-80 -TE 500+ for myelo | -Superior FatSat over large FOV<br>-Do not scan post contrast - Low inherent SNR | -Sensitive to subtle contrast<br>-Scan with 2 concat<br>-Keep TR very long | Many variants<br>-T1: FLASH;VIBE<br>-T2*:GRE;MEDIC<br>-T2* for Hemo -<br>-Can be 3D for thin slice<br>-Can be 3D for isotropic | -Low resolution<br>-Low SNR<br>-Not sensitive to gad<br>-Scan for ischemia<br>-EPI artifacts |

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