# LUMBAR SPINE 3T

### INSTRUCTIONS AND PATIENT PREPARATION

| | |
|---|---|
| **Instructions** | If using H >> F phase direction for Sagittal sequences anterior Sat band is not needed |
| **Common Indications** | Tumor, infection, post surgery |
| **Position** | Supine, head first |
| **Coil** | Spine array coil |
| **Landmark** | 1-2" above iliac crest |

### CONTRAST AGENT PARAMETERS

| Contrast Agent | Dose | Injection Rate |
|---|---|---|
| **Gadopiclenol (VUEWAY)** | 0.05 mmol/kg | Hand Bolus |
| **Saline Flush** | 10 mL | Hand Bolus |
| **Comments** | Report agent administered and dose | |

### IMAGING PARAMETERS

| Scan Description | SAGITTAL T2 | SAGITTAL T1 | SAGITTAL STIR | AXIAL T2 | Post SAGITTAL T1 DIXON | Post AXIAL T1 DIXON |
|---|---|---|---|---|---|---|
| **Primary Sequence** | Yes | Yes | Yes | Yes | Yes | Yes |
| **Pulse Sequence** | tse | tse | tir | tse | tse | tse |
| **Mode** | 2D | 2D | 2D | 2D | 2D | 2D |
| **I-Pat** | 2 | 2 | 2 | 2 | 2 | 2 |

### SCAN PARAMETERS

| Scan Description | SAGITTAL T2 | SAGITTAL T1 | SAGITTAL STIR | AXIAL T2 | Post SAGITTAL T1 DIXON | Post AXIAL T1 DIXON |
|---|---|---|---|---|---|---|
| **TE** | 82 | 9 | 46 | 82 | 11 | 10 |
| **TR** | 3650 | 1590 | 4000 | 4670 | 700 | 590 |
| **TI** | — | 900 | 210 | — | — | — |
| **Flip Angle** | 160 | 160 | 160 | 160 | 160 | 150 |
| **Turbo Factor** | 19 | 7 | 15 | 16 | 3 | 3 |
| **Bandwidth** | 260 | 220 | 260 | 260 | 330 | 330 |
| **Fat Sat** | — | — | — | — | Strong | Strong |
| **Gradient Speed** | Normal | Normal | Normal | Normal | Normal | Normal |
| **RF Mode** | Normal | Normal | Normal | Normal | Normal | Normal |

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

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**MR Gadopiclenol (VUEWAY®) Protocol for Siemens MRI Scanners**
**Central Nervous System**

IMAGING FORUMS, INC.

**ACQUISITION PARAMETERS**

| Scan Description | SAGITTAL T2 | SAGITTAL T1 | SAGITTAL STIR | AXIAL T2 | Post SAGITTAL T1 DIXON | Post AXIAL T1 DIXON |
|---|---|---|---|---|---|---|
| **MATRIX Freq** | 192 | 192 | 192 | 320 | 192 | 256 |
| **MATRIX Phase** | 75% | 75% | 70% | 70% | 80% | 60% |
| **Averages** | 2 | 2 | 2 | 1 | 2 | 2 |
| **Concatenations** | 1 | 2 | 1 | 2 | 1 | 3 |
| **Rec FOV** | 181% | 181% | 181% | 100% | 181% | 100% |
| **Phase DIR** | H >> F | H >> F | H << F | A >> P | H >> F | A >> P |
| **Phase Over Sample** | 70% | 60% | 60% | 30% | 60% | 30% |
| **Partial Fourier** | Off | Off | Off | Off | Off | Off |
| **FC Direction** | Read | None | Read | Slice | None | None |

**SCANNING RANGE**

| Scan Description | SAGITTAL T2 | SAGITTAL T1 | SAGITTAL STIR | AXIAL T2 | Post SAGITTAL T1 DIXON | Post AXIAL T1 DIXON |
|---|---|---|---|---|---|---|
| **FOV** | 140 | 140 | 140 | 180 | 140 | 220 |
| **Filter** | Prescan | Prescan | Prescan | None | Prescan | Prescan |
| **Slice Thickness** | 3.5 | 3.5 | 3.5 | 5.0 | 3.5 | 5.0 |
| **Spacing %** | 25% | 25% | 25% | 20% | 25% | 20% |
| **Number of Slices** | 18 | 18 | 17 | 125 | 17 | 36 |
| **Acquisition Time** | 1:33 min | 3:15 min | 1:50 min | 3:08 min | 3:32 min | 4:04 min |

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