# MOTION BRAIN 1.5T

## INSTRUCTIONS AND PATIENT PREPARATION

| | |
|---|---|
| **Instructions** | This exam is tailored to the patient's condition and is meant for rapid assessment at lower resolution, can be ran when patient is moving for Routine Adult Brain |
| **Position** | Supine, head first |
| **Coil** | Head, HNU (Head 24 selected if possible), or NVPA |
| **Landmark** | Glabella/Nasion |

## CONTRAST AGENT PARAMETERS

| Contrast Agent | Dose | Injection Rate |
|---|---|---|
| **Gadopiclenol (VUEWAY)** | 0.05 mmol/kg up to a calculated volume of 10 mL | 2 mL/sec |
| **Saline Flush** | 10-20 mL | 2 mL/sec |
| **Comments** | • Report agent administered and dose<br>• Use minimal dose for patients with a GFR <60 mL/sec | |

## IMAGING PARAMETERS

| Scan Description | 3PL LOCALIZER | AXIAL DWI | AXIAL 2D EPI GRE/T2* | AXIAL T2 PROPELLER | AXIAL or CORONAL T2 FLAIR PROPELLER | AXIAL T2 2D SSFSE | AXIAL T1 FAST | AXIAL DWI-HB Option | AXIAL FLAIR FAST |
|---|---|---|---|---|---|---|---|---|---|
| **Primary Sequence** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| **Mode** | 2D | 2D | 2D | 2D | 2D | 2D | 2D | 2D | 2D |
| **Pulse Sequence** | SSFSE | SE-EPI | EPI/GRE | FSE-PROP | FSEIR-PROP | SSFSE | FSE | SE-EPI epi2altoff Hyperband | FSE-XL |
| **Imaging Options** | SEQ, EDR, FAST, SS, ARC, TRF | B=1000, DIR=ALL, ASSET | EDR, FAST, ARC | PROP | PROP, TRF | EDR, TRF, FAST, ARC, SS | TRF, FAST | B=1000, DIR=ALL, ARC=3, HB | EDR, TRF, FAST, ZIP512, ARC |

## SCAN PARAMETERS

| Scan Description | 3PL LOCALIZER | AXIAL DWI | AXIAL 2D EPI GRE/T2* | AXIAL T2 PROPELLER | AXIAL or CORONAL T2 FLAIR PROPELLER | AXIAL T2 2D SSFSE | AXIAL T1 FAST | AXIAL DWI-HB Option | AXIAL FLAIR FAST |
|---|---|---|---|---|---|---|---|---|---|
| **TE** | 80 | Min | 35 | 118 | 116 | Min | Min | Min | 95 |
| **TR** | Min | 8000 | 2000 | 3650 | 9500 | Min | 500 | 5000 | 8000 |
| **TI** | — | — | — | — | 2375 | — | — | — | Auto-2395 |
| **Flip Angle** | — | — | — | — | — | — | 150 | — | 160 |
| **ETL** | — | — | 2 shots | 32 | 36 | Max | 4 | — | 23 |
| **Bandwidth** | 83 | 125 | 142 | 62 | 32 | 31 | 32 | Def | 50 |
| **Sat** | — | A/F 2 | — | — | — | S/I | — | Fat | — |

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**MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems**
**Central Nervous System**

IMAGING FORUMS, INC.

**ACQUISITION PARAMETERS**

| Scan Description | 3PL LOCALIZER | AXIAL DWI | AXIAL 2D EPI GRE/T2* | AXIAL T2 PROPELLER | AXIAL or CORONAL T2 FLAIR PROPELLER | AXIAL T2 2D SSFSE | AXIAL T1 FAST | AXIAL DWI-HB Option | AXIAL FLAIR FAST |
|---|---|---|---|---|---|---|---|---|---|
| **MATRIX freq** | 256 | 128 | 256 | 256 | 256 | 256 | 256 | 128 | 256 |
| **MATRIX phase** | 192 | 128 | 224 | 256 | 256 | 192 | 192 | 128 | 160 |
| **NEX** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | HB2 | 1 |
| **Phase FOV** | 1 | 1 | 1 | 1 | 1 | 0.8 | 0.75 | 1 | 0.8 |
| **Freq Direction** | Unswap | R/L | A/P | A/P | S/I | — | A/P | A/P | A/P |
| **Image Enhance** | — | SCIC | SCIC | SCIC | SCIC | — | SCIC | None | SCIC |
| **FC Direction** | — | — | — | — | — | — | — | — | Slice |
| **User CV** | — | Ramp Samp=1 | TRF<br>SEQ | — | — | ACC=2 | TRF<br>FAST<br>ASSET=1.75 | Ramp Samp=1 RECON=1<br>GRAD OPT=1<br>INT REF=1 RG1 | TRF<br>FC |

**SCANNING RANGE**

| Scan Description | 3PL LOCALIZER | AXIAL DWI | AXIAL 2D EPI GRE/T2* | AXIAL T2 PROPELLER | AXIAL or CORONAL T2 FLAIR PROPELLER | AXIAL T2 2D SSFSE | AXIAL T1 FAST | AXIAL DWI-HB Option | AXIAL FLAIR FAST |
|---|---|---|---|---|---|---|---|---|---|
| **FOV** | 7 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| **Slice Thickness** | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 4 |
| **Spacing** | 5 | 0.5 | 1 | 1 | 1 | 0 | 1 | 0.5 | 0.5 |
| **Number of Slices** | 7-Ax/Sag/Cor | 24-26 | 34 | 24-26 | 24-26 | — | 24-26 | 24-26 | 30 |
| **Scan Time** | 0:44 sec | 0:40 sec | 0:23 sec | ~1:30 min | ~2:30 min | 0:30 sec | 1:30 min | 0:40 sec | 1:20 min |

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