# MAXILLOFACIAL WITH/WITHOUT IV CONTRAST 3T R5.6

**INSTRUCTIONS AND PATIENT PREPARATION**

| | |
|---|---|
| **Instructions** | • Change patient into hospital issued gown and pants<br>• 20- to 22-gauge IV access preferred<br>• Power injector preferred |
| **Position** | Supine, head first |
| **Coil** | 32 channel head coil |
| **Landmark** | Glabella |

**CONTRAST AGENT PARAMETERS**

| Contrast Agent | Dose | Injection Rate | Dose Timing Method and Scan Delay |
|---|---|---|---|
| **Gadopiclenol (VUEWAY)** | 0.05 mmol/kg | 5 mL/sec | Preload by injecting half the dose of VUEWAY, wait 30 seconds, program 15 second inject delay, inject and scan perfusion sequence at the same time |
| **Saline Flush** | 20 mL | 5 mL/sec | — |
| **Comments** | If available, use mDIXON XD Fat Sat technique for the postcontrast scans | | |

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*Supported by an educational grant from Bracco Diagnostics Inc.*

**MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems**
**Central Nervous System**

IMAGING FORUMS, INC.

**INFO PAGE**

| Scan Description | Survey | SAGITTAL T1 | AXIAL T1 | AXIAL STIR | CORONAL T1 | CORONAL STIR | DTI | FE EPI ASFNR Perfusion | SAGITTAL T1 +C mDIXON | AXIAL T1 +C mDIXON | CORONAL T1 +C mDIXON |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total scan duration** | 00:31.6 | 00:55.2 | 02:15.7 | 02:59.1 | 02:28.3 | 02:13.2 | 03:47.4 | 02:28.8 | 02:27.1 | 02:34.4 | 03:18.6 |
| **Rel. SNR** | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 1 |
| **Act. TR (ms)** | — | 613 | 665 | — | 628 | — | 5415 | — | 721 | 735 | 628 |
| **Act. TE (ms)** | — | 10 | 8 | 15 | 10 | 15 | 68 | — | 10 | 10 | 10 |
| **Act. TR/TI (ms)** | — | — | — | 4714 / 200 | — | 5123 / 200 | — | — | — | — | — |
| **Act. TR/TE (ms)** | 15 / 5.2 | — | — | — | — | — | — | 1600 / 25 | — | — | — |
| **Dyn. scan time** | — | — | — | — | — | — | — | 00:01.6 | — | — | — |
| **Time to k0** | — | — | — | — | — | — | — | 0.8 | — | — | — |
| **ACQ matrix M x P** | 256 x 126 | 200 x 131 | 200 x 172 | 276 x 166 | 268 x 219 | 268 x 217 | 124 x 91 | 112 x 112 | 212 x 169 | 200 x 161 | 268 x 226 |
| **ACQ voxel MPS (mm)** | 0.98 / 1.98 / 10.00 | 0.80 / 1.22 / 4.00 | 0.80 / 0.93 / 4.00 | 0.58 / 0.96 / 4.00 | 0.60 / 0.73 / 4.00 | 0.60 / 0.74 / 4.00 | 1.77 / 2.01 / 3.00 | 2.00 / 2.00 / 4.00 | 0.75 / 0.95 / 4.00 | 0.80 / 0.99 / 4.00 | 0.60 / 0.71 / 4.00 |
| **REC voxel MPS (mm)** | 0.98 / 0.98 / 10.00 | 0.42 / 0.42 / 4.00 | 0.42 / 0.42 / 4.00 | 0.37 / 0.37 / 4.00 | 0.33 / 0.33 / 4.00 | 0.37 / 0.37 / 4.00 | 0.92 / 0.92 / 3.00 | 1.75 / 1.75 / 4.00 | 0.33 / 0.33 / 4.00 | 0.42 / 0.42 / 4.00 | 0.33 / 0.33 / 4.00 |
| **Scan percentage (%)** | 49 | 65 | 86 | 60 | 82 | 81 | 88 | 100 | 80 | 81 | 84 |
| **Packages** | — | 6 | 4 | 2 | 4 | 2 | 2 | 1 | 4 | 6 | 4 |
| **Min. slice gap (mm)** | — | 4 | 4 | 4 | 4 | 4 | 3 | 0 | 4 | 4 | 4 |
| **Act. slice gap (mm)** | — | — | — | — | — | — | — | — | 0.4 | — | — |
| **Optimal slices** | — | 10 | 18 | — | 18 | — | — | — | 16 | 12 | 18 |
| **EPI factor** | — | — | — | — | — | — | — | 49 | — | — | — |
| **TFE shots** | 3 | — | — | — | — | — | — | — | — | — | — |
| **TFE dur. shot / acq (ms)** | 701.6 / 630.0 | — | — | — | — | — | — | — | — | — | — |
| **TFE shot interval (ms)** | 701.6 | — | — | — | — | — | — | — | — | — | — |
| **Min. TI delay** | 375.1 | — | — | — | — | — | — | — | — | — | — |
| **Act. WFS (pix) / BW (Hz)** | 2.322 / 187.1 | — | — | — | — | — | — | 14.001 / 31.0 | — | — | — |
| **BW in EPI freq. dir. (Hz)** | — | — | — | — | — | — | — | 1901.1 | — | — | — |
| **Min. WFS (pix) / Max. BW (Hz)** | 1.050 / 413.8 | — | — | — | — | — | — | 13.959 / 31.1 | — | — | — |
| **Min. TR/TE (ms)** | 10 / 5.2 | — | — | — | — | — | — | 1541 / 17 | — | — | — |
| **WFS (pix) / BW (Hz)** | — | 2.746 / 158.2 | 1.772 / 245.1 | 2.858 / 152.0 | 2.710 / 160.3 | 1.909 / 227.5 | 0.530 / 819.5 | — | 1.429 / 303.9 | 0.862 / 504.0 | 1.714 / 253.5 |
| **Full flow comp.** | — | — | — | — | — | — | — | — | — | yes | — |
| **TSE factor** | — | — | — | — | — | — | 46 | — | — | — | — |
| **TSE es / shot (ms)** | — | 10.0 / 70 | 8.0 / 32 | 10.0 / 40 | 10.0 / 50 | 8.0 / 64 | 4.8 / 227 | — | 10.0 / 50 | 10.0 / 70 | 10.0 / 50 |
| **TEeff / TEequiv (ms)** | — | — | — | 15 / 15 | 10 / 10 | 15 / 15 | 8 / 8 | — | — | — | 10 / 10 |
| **Min. TR (ms)** | — | 613 | 665 | — | 628 | — | — | — | 721 | 735 | 628 |
| **Local torso SAR** | < 16 % | < 100 % | < 100 % | < 54 % | < 100 % | < 64 % | < 44 % | < 29 % | < 100 % | < 100 % | < 100 % |
| **Whole body SAR / level** | < 0.5 W/kg / normal | < 3.2 W/kg / 1st level | < 3.2 W/kg / 1st level | < 1.7 W/kg / normal | < 3.2 W/kg / 1st level | < 2.0 W/kg / normal | < 1.4 W/kg / normal | < 0.9 W/kg / normal | < 3.2 W/kg / 1st level | < 3.2 W/kg / 1st level | < 3.2 W/kg / 1st level |
| **SED** | 0.0 kJ/kg | < 0.2 kJ/kg | < 0.4 kJ/kg | < 0.3 kJ/kg | < 0.5 kJ/kg | < 0.3 kJ/kg | < 0.3 kJ/kg | < 0.1 kJ/kg | < 0.5 kJ/kg | < 0.5 kJ/kg | < 0.6 kJ/kg |
| **Coil Power** | — | 96% | 96% | 51% | 96% | 61% | 42% | 28% | 96% | 96% | 96% |
| **Max B1+rms** | 0.90 uT | 2.29 uT | 2.29 uT | 1.68 uT | 2.29 uT | 1.83 uT | 1.52 uT | 1.24 uT | 2.29 uT | 2.29 uT | 2.29 uT |
| **PNS / level** | 17 % / normal | 41 % / normal | 36 % / normal | 48 % / normal | 42 % / normal | 43 % / normal | 69 % / normal | 84 % / 1st level | 39 % / normal | 38 % / normal | 43 % / normal |
| **dB/dt** | 15.4 T/s | 21.4 T/s | 20.9 T/s | 40.4 T/s | 38.4 T/s | 38.3 T/s | 75.0 T/s | 124.8 T/s | 20.9 T/s | 23.6 T/s | 39.5 T/s |
| **Sound Pressure Level (dB)** | 2.7 | 15.9 | 12.6 | 10 | 14.2 | 8.3 | 20.9 | 24.4 | 15.6 | 18.1 | 17 |

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**MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems**
**Central Nervous System**

IMAGING FORUMS, INC.

**GEOMETRY**

| Scan Description | Survey | SAGITTAL T1 | AXIAL T1 | AXIAL STIR | CORONAL T1 | CORONAL STIR | DTI | FE EPI ASFNR Perfusion | SAGITTAL T1 +C mDIXON | AXIAL T1 +C mDIXON | CORONAL T1 +C mDIXON |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SmartSelect** | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| **Coil 1 (exclude)** | — | None | None | None | None | None | None | None | None | None | None |
| **Uniformity** | — | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR | CLEAR |
| **FOV AP (mm)** | 250 | 160 | 160 | 160 | 158 | 158 | 220 | 224 | 160 | 160 | 158 |
| **FOV (mm)** | (3) 50, (17) 10 | — | — | — | — | — | — | — | — | — | — |
| **FOV FH (mm)** | 250 | 160 | 179 | 179 | 160 | 160 | 143 | 116 | 160 | 179 | 160 |
| **FOV RL (mm)** | — | 149 | 160 | 160 | 160 | 160 | 183 | 224 | 140 | 160 | 160 |
| **ACQ voxel size AP (mm)** | 2 | 1 | 0.8 | 0.6 | — | — | 1.8 | 2 | 0.9 | 0.8 | — |
| **ACQ voxel size FH (mm)** | 1 | 0.8 | — | — | 0.6 | 0.6 | — | — | 0.8 | — | 0.6 |
| **ACQ voxel size RL (mm)** | — | — | 0.9 | 1 | 0.7 | 0.7 | 2 | 2 | — | 0.9 | 0.7 |
| **Slice thickness (mm)** | 10 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 |
| **Bar orientation** | RL | — | — | — | — | — | — | — | — | — | — |
| **VOI orientation** | transverse | — | — | — | — | — | — | — | — | — | — |
| **VOI size AP (mm)** | 30 | — | — | — | — | — | — | — | — | — | — |
| **VOI size FH (mm)** | 30 | — | — | — | — | — | — | — | — | — | — |
| **VOI size RL (mm)** | 30 | — | — | — | — | — | — | — | — | — | — |
| **Recon voxel size AP (mm)** | 1 | 0.4 | 0.4 | 0.4 | — | — | 0.9 | 1.8 | 0.3 | 0.4 | — |
| **Recon voxel size FH (mm)** | 1 | 0.4 | — | — | 0.3 | 0.4 | — | — | 0.3 | — | 0.3 |
| **Recon voxel size RL (mm)** | — | — | 0.4 | 0.4 | 0.3 | 0.4 | 0.9 | 1.8 | — | 0.4 | 0.3 |
| **Fold-over suppression** | no | oversampling | oversampling | no | oversampling | no | no | no | oversampling | no | oversampling |
| **A (mm)** | 50 | 30 | — | — | — | — | — | — | 15 | — | — |
| **L (mm)** | — | — | 20 | — | 20 | — | — | — | — | — | 20 |
| **P (mm)** | 50 | 30 | — | — | — | — | — | — | 80 | — | — |
| **R (mm)** | — | — | 20 | — | 20 | — | — | — | — | — | 20 |
| **Reconstruction matrix** | 256 | 384 | 384 | 432 | 480 | 432 | 240 | 128 | 480 | 384 | 480 |
| **SENSE** | no | no | no | no | no | no | yes | yes | no | no | no |
| **P reduction (AP)** | — | — | — | — | — | — | — | 2.3 | — | — | — |
| **P reduction (RL)** | — | — | — | — | — | — | 2 | no | — | — | — |
| **MB SENSE** | — | — | — | — | — | — | — | — | — | — | — |
| **CS-SENSE** | no | yes | yes | yes | yes | yes | no | no | yes | yes | yes |
| **reduction** | — | 2.3 | 2.3 | 2.3 | 2 | 2.3 | — | — | 2.3 | 3 | 1.5 |
| **denoising** | — | system default | system default | system default | system default | system default | — | — | system default | system default | system default |
| **k-t Acceleration** | no | no | no | no | no | no | no | no | no | no | no |
| **Stacks** | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **type** | (20) parallel | parallel | parallel | parallel | parallel | parallel | parallel | parallel | parallel | parallel | parallel |
| **Slices** | (3) 3, (17) 1 | 30 | 36 | 36 | 36 | 36 | 36 | 29 | 32 | 36 | 36 |
| **slice gap** | user defined | user defined | user defined | user defined | user defined | user defined | user defined | user defined | default | user defined | user defined |
| **gap (mm)** | (20) 10 | 1 | 1 | 1 | 0.4 | 0.4 | 1 | 0 | — | 1 | 0.40 |
| **Slice orientation** | sagittal, coronal, (18) transverse | sagittal | transverse | transverse | coronal | coronal | transverse | transverse | sagittal | transverse | coronal |
| **Fold-over direction** | AP, (19) RL | AP | RL | RL | RL | RL | RL | AP | AP | RL | RL |
| **Fat shift direction** | (2) F, (18) P | F | P | P | F | F | P | P | F | P | F |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **radial axis** | AP, RL, AP, (17) RL | — | — | — | — | — | — | — | — | — | — |
| **radial angle (deg)** | (20) 0 | — | — | — | — | — | — | — | — | — | — |
| **Minimum number of packages** | — | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Slice scan order** | default | default | default | default | default | default | default | FH | default | default | default |
| **Stack scan order** | ascend | — | — | — | — | — | — | — | — | — | — |
| **Move table per stack** | no | — | — | — | — | — | — | — | — | — | — |
| **O-MAR** | — | no | no | no | no | no | no | — | no | no | no |
| **Large table movement** | no | no | no | no | no | no | no | no | no | no | no |
| **Stack alignment** | no | — | — | — | — | — | — | — | — | — | — |
| **Stack sort order** | no | — | — | — | — | — | — | — | — | — | — |
| **PlanAlign** | no | no | no | no | no | no | no | no | no | no | no |
| **REST slabs** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Patient position** | head first | head first | head first | head first | head first | head first | head first | head first | head first | head first | head first |
| **Patient body position** | head first | head first | head first | head first | head first | head first | head first | head first | head first | head first | head first |
| **Patient orientation** | supine | supine | supine | supine | supine | supine | supine | supine | supine | supine | supine |
| **Patient body orientation** | supine | supine | supine | supine | supine | supine | supine | supine | supine | supine | supine |

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**Central Nervous System**

IMAGING FORUMS, INC.

**CONTRAST**

| Scan Description | Survey | SAGITTALT1 | AXIALT1 | AXIALSTIR | CORONALT1 | CORONALSTIR | DTI | FE EPI ASFNRPerfusion | SAGITTAL T1 +C mDIXON | AXIALT1 +C mDIXON | CORONALT1 +C mDIXON |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Scan type** | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging | Imaging |
| **Scan mode** | M2D | MS | MS | MS | MS | MS | MS | MS | MS | MS | MS |
| **technique** | FFE | SE | SE | IR | SE | IR | SE | FFE | SE | SE | SE |
| **Contrast enhancement** | T1 | — | — | — | — | — | — | no | — | — | — |
| **Modified SE** | — | no | no | — | no | — | no | — | no | no | no |
| **Acquisition mode** | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian | cartesian |
| **Fast Imaging mode** | TFE | TSE | TSE | TSE | TSE | TSE | TSE | EPI | TSE | TSE | TSE |
| **shot mode** | multishot | multishot | multishot | multishot | multishot | multishot | single-shot | single-shot | multishot | multishot | multishot |
| **TSE factor** | — | 7 | 4 | 4 | 5 | 8 | — | — | 5 | 7 | 5 |
| **TFE factor** | 42 | — | — | — | — | — | — | — | — | — | — |
| **TE spacing** | — | user defined | user defined | user defined | — | user defined | — | — | user defined | user defined | — |
| **(ms)** | — | 10 | 8 | 10 | — | 8 | — | — | 10 | 10 | — |
| **startup echoes** | default | — | — | — | — | — | 1 | — | — | — | — |
| **shot interval** | shortest | — | — | — | — | — | — | — | — | — | — |
| **profile order** | linear | asymmetric | asymmetric | asymmetric | low_high | asymmetric | low_high | — | asymmetric | asymmetric | low_high |
| **DRIVE** | — | no | no | no | no | no | no | — | no | no | no |
| **ultrashort** | — | no | no | no | no | no | no | — | no | no | no |
| **fid reduction** | — | default | default | default | default | default | default | — | default | default | default |
| **Echoes** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **partial echo** | no | no | no | no | no | no | no | no | no | no | no |
| **shifted echo** | no | — | — | — | — | — | — | no | — | — | — |
| **TE** | shortest | shortest | shortest | user defined | user defined | user defined | shortest | user defined | shortest | shortest | user defined |
| **(ms)** | — | — | — | 15 | 10 | 15 | — | 25 | — | — | 10 |
| **Flip angle (deg)** | 20 | 90 | 90 | — | 90 | — | 90 | 60 | 90 | 90 | 90 |
| **Refocusing control** | — | no | no | constant | constant | constant | constant | — | no | no | constant |
| **angle (deg)** | — | — | — | 120 | 120 | 120 | 50 | — | — | — | 120 |
| **TR** | user defined | range | range | shortest | range | shortest | shortest | user defined | range | range | range |
| **(ms)** | 15 | — | — | — | — | — | — | 1600 | — | — | — |
| **minimum (ms)** | — | 400 | 400 | — | 350 | — | — | — | 400 | 400 | 350 |
| **maximum (ms)** | — | 700 | 750 | — | 650 | — | — | — | 750 | 750 | 650 |
| **Halfscan** | no | no | no | no | no | no | no | no | no | no | no |
| **Water-fat shift** | maximum | maximum | maximum | maximum | maximum | maximum | user defined | minimum | maximum | maximum | maximum |
| **(pixels)** | — | — | — | — | — | — | 2 | — | — | — | — |
| **IR delay (ms)** | — | — | — | 200 | — | 200 | — | — | — | — | — |
| **acquire during delay** | — | — | — | no | — | no | — | — | — | — | — |
| **dual** | — | — | — | no | — | no | — | — | — | — | — |
| **power** | — | — | — | 1 | — | 1 | — | — | — | — | — |
| **RF Shims** | — | fixed | fixed | fixed | fixed | fixed | fixed | fixed | fixed | fixed | fixed |
| **Shim** | — | default | default | default | default | default | auto | auto | auto | default | default |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **mDIXON** | no | no | no | no | no | no | no | no | yes | yes | yes |
| **Fat suppression** | no | no | no | no | no | no | no | SPIR | no | no | no |
| **strength** | — | — | — | — | — | — | — | strong | — | — | — |
| **frequency offset** | — | — | — | — | — | — | — | default | — | — | — |
| **Grad Rev Fat suppr** | — | — | — | — | — | — | no | — | — | — | — |
| **Water suppression** | no | no | no | no | no | no | no | no | no | no | no |
| **BB pulse** | — | no | no | no | no | no | no | — | no | no | no |
| **TFE prepulse** | invert | — | — | — | — | — | — | — | — | — | — |
| **slice selection** | no | — | — | — | — | — | — | — | — | — | — |
| **delay** | shortest | — | — | — | — | — | — | — | — | — | — |
| **PSIR** | no | — | — | — | — | — | — | — | — | — | — |
| **MTC** | no | no | no | no | no | no | no | no | no | no | no |
| **Diffusion mode** | no | no | no | no | no | no | DWI | no | no | no | no |
| **gradient overplus** | — | — | — | — | — | — | yes | — | — | — | — |
| **nr of b-factors** | — | — | — | — | — | — | 2 | — | — | — | — |
| **b-factor order** | — | — | — | — | — | — | ascending | — | — | — | — |
| **max b-factor** | — | — | — | — | — | — | 800 | — | — | — | — |
| **average high b** | — | — | — | — | — | — | user defined | — | — | — | — |
| **b-factor averages** | — | — | — | — | — | — | (0) 1, (800) 2 | — | — | — | — |
| **T1 mapping** | no | no | no | no | no | no | no | no | no | no | no |
| **SAR mode** | high | high | high | high | high | high | high | high | high | high | high |
| **B1 mode** | default | user defined | user defined | default | default | default | default | default | user defined | user defined | default |
| **amplitude (uT)** | — | 12 | 12 | — | — | — | — | — | 12 | 12 | — |
| **SAR allow first level** | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| **Patient pregnancy** | no | no | no | no | no | no | no | no | no | no | no |
| **Patient WB SAR [W/kg]** | — | — | — | — | — | — | — | — | — | — | — |
| **Patient Head SAR [W/kg]** | — | — | — | — | — | — | — | — | — | — | — |
| **Patient max. dB/dt [T/s]** | — | — | — | — | — | — | — | — | — | — | — |
| **Max slewrate [T/m/s]** | — | — | — | — | — | — | — | — | — | — | — |
| **Max. B1+rms [uT]** | — | — | — | — | — | — | — | — | — | — | — |
| **PNS mode** | low | moderate | low | low | low | low | high | high | low | low | low |
| **Gradient mode** | regular | default | default | default | default | default | maximum | maximum | default | default | default |
| **SofTone mode** | no | user defined | user defined | no | no | no | no | no | user defined | user defined | no |

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**MOTION**

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cardiac synchronization** | no | no | no | no | no | no | no | no | no | no | no |
| **Respiratory compensation** | no | no | no | no | no | no | no | no | no | no | no |
| **Navigator respiratory comp** | no | no | no | no | no | no | no | no | no | no | no |
| **Flow compensation** | no | no | no | no | no | no | no | no | no | yes | no |
| **direction** | — | — | — | — | — | — | — | — | — | in-plane | — |
| **Temporal slice spacing** | — | default | default | — | default | — | default | default | default | default | default |
| **fMRI echo stabilisation** | no | — | — | — | — | — | — | no | — | — | — |
| **Motion smoothing** | — | no | no | no | no | no | no | — | no | no | no |
| **NSA** | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 |
| **SMART** | — | — | no | — | no | — | no | — | — | no | — |
| **MRE enable** | no | no | no | no | no | no | no | no | no | no | no |

**DYNAMIC ANGIO**

| Scan Description | Survey | SAGITTAL T1 | AXIAL T1 | AXIAL STIR | CORONAL T1 | CORONAL STIR | DTI | FE EPI ASFNR Perfusion | SAGITTAL T1 +C mDIXON | AXIAL T1 +C mDIXON | CORONAL T1 +C mDIXON |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Angio / Contrast enh.** | no | — | — | — | — | — | — | no | — | — | — |
| **Quantitative flow** | no | — | — | — | — | — | — | no | — | — | — |
| **Manual start** | no | no | no | no | no | no | no | yes | no | no | no |
| **Dynamic study** | no | no | no | no | no | no | no | individual | no | no | no |
| **dyn scans** | — | — | — | — | — | — | — | 90 | — | — | — |
| **dyn scan times** | — | — | — | — | — | — | — | shortest | — | — | — |
| **fov time mode** | — | — | — | — | — | — | — | default | — | — | — |
| **dummy scans** | — | — | — | — | — | — | — | 0 | — | — | — |
| **immediate subtraction** | — | — | — | — | — | — | — | no | — | — | — |
| **fast next scan** | — | — | — | — | — | — | — | no | — | — | — |
| **synch. ext. device** | — | — | — | — | — | — | — | no | — | — | — |
| **dyn stabilization** | — | — | — | — | — | — | — | no | — | — | — |
| **prospect. motion corr.** | — | — | — | — | — | — | — | no | — | — | — |
| **Keyhole** | — | — | — | — | — | — | — | no | — | — | — |
| **Arterial Spin labeling** | no | no | no | no | no | no | no | no | no | no | no |

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*Supported by an educational grant from Bracco Diagnostics Inc.*

**MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems**
**Central Nervous System**

IMAGING FORUMS, INC.

**POST PROCESSING**

| Scan Description | Survey | SAGITTAL T1 | AXIAL T1 | AXIAL STIR | CORONAL T1 | CORONAL STIR | DTI | FE EPI ASFNR Perfusion | SAGITTAL T1 +C mDIXON | AXIAL T1 +C mDIXON | CORONAL T1 +C mDIXON |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Preparation phases** | — | auto | auto | auto | auto | auto | auto | auto | auto | auto | auto |
| **Interactive F0** | no | no | no | no | no | no | no | no | no | no | no |
| **Quick Survey** | default | default | default | default | default | default | default | default | default | default | default |
| **B0 field map** | no | no | no | no | no | no | no | no | no | no | no |
| **MIP/MPR** | no | no | no | no | no | no | no | no | no | no | no |
| **SWIp** | no | — | — | — | — | — | — | no | — | — | — |
| **mDIXON images** | — | — | — | — | — | — | — | — | water, (5) no | water, (5) no | water, (5) no |
| **Images** | M, (3) no | M, (3) no | M, (3) no | M, (3) no | M, (3) no | M, (3) no | M, (3) no | M, (3) no | — | — | — |
| **Autoview image** | M | M | M | M | M | M | M | M | — | — | — |
| **Calculated images** | (4) no | (4) no | (4) no | — | (4) no | — | (4) no | (4) no | — | — | — |
| **Reference tissue** | White matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter | Grey matter |
| **Recon compression** | No | No | No | No | No | No | No | No | No | No | No |
| **Preset window contrast** | soft | soft | soft | soft | soft | soft | soft | soft | soft | soft | soft |
| **Reconstruction mode** | immediate | real time | real time | real time | real time | real time | real time | real time | real time | real time | real time |
| **reuse memory** | — | — | — | — | — | — | — | no | — | — | — |
| **Save raw data** | no | no | no | no | no | no | no | no | no | no | no |
| **Hardcopy protocol** | no | no | no | no | no | no | no | no | no | no | no |
| **Image filter** | system default | system default | system default | system default | system default | system default | system default | system default | system default | system default | system default |
| **Uniformity correction** | no | no | no | no | no | no | no | no | no | no | no |
| **Geometry correction** | default | default | default | default | default | default | default | default | default | default | default |
| **EPI geometry correction** | — | — | — | — | — | — | — | no | — | — | — |
| **ADC correction** | — | — | — | — | — | — | no | — | — | — | — |
| **Free rotatable** | no | no | no | no | no | no | no | no | no | no | no |
| **IF_info_seperator** | 0 | 0 | 0 | 1634755923 | 1634755923 | 1634755923 | 1634755923 | 1634755923 | 0 | 0 | 1634755923 |

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