ORBITS 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• These sequences usually done in addition to Routine Adult Brain protocol • Have patient close eyes for these sequences • Cover orbits through optic nerve
Position	Supine, head first
Coil	Head/Neck coil
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus
Saline Flush	10 mL	Hand Bolus
Comments	• Consider using TSE DIXON to reduce susceptibility problems • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	CORONAL STIR	CORONAL T1	AXIAL T2	AXIAL BLADE DWI	Post AXIAL T1 Fat Sat	Post CORONAL T1 Fat Sat	Post SAGITTAL 3D FLAIR SPACE
Sequence Name	tir	tse	tseR	resolve	tse	tse	spcir
Dimension	2D	2D	2D	2D	2D	2D	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA
Acceleration Factor PE	3	3	3	2	3	3	2
Acceleration Factor 3D	—	—	—	—	—	—	2
AutoAlign	Head > Optic Nerves	Head > Optic Nerves	Head > Orbits	Head > Orbits	Head > Orbits	Head > Optic Nerves	Head > Basis

ACQUISITION PARAMETERS

Scan Description	CORONAL STIR	CORONAL T1	AXIAL T2	AXIAL BLADE DWI	Post AXIAL T1 Fat Sat	Post CORONAL T1 Fat Sat	Post SAGITTAL 3D FLAIR SPACE
TR	3000.0 ms	670.0 ms	3760.0 ms	6000.0 ms	500.0 ms	630.0 ms	5000.0 ms
TE	49.00 ms	8.20 ms	97.00 ms	TE 1: 59 ms TE 2: 94 ms	8.70 ms	8.70 ms	338.00 ms
TI	160 ms	—	—	—	—	—	1600 ms
Flip Angle	150 deg	150 deg	150 deg	180 deg	150 deg	150 deg	Mode T2 Var
Turbo Factor	10	2	17	—	2	2	249
Bandwidth	200 Hz/Px	209 Hz/Px	171 Hz/Px	—	191 Hz/Px	191 Hz/Px	None
EPI Factor	—	—	—	75	—	—	—
Fat-Water Contrast	Standard	Standard	Standard	Fat Saturation	Fat Saturation	Fat Saturation	Fat Saturation
Fat Saturation	—	—	—	Strong	Strong	Strong	Strong
Gradient Mode	Normal	Normal	Normal	Fast	Normal	Normal	Fast
RF Pulse Type	Normal	Fast	Fast	Normal	Fast	Fast	Non-sel.

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

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	CORONAL STIR	CORONAL T1	AXIAL T2	AXIAL BLADE DWI	Post AXIAL T1 Fat Sat	Post CORONAL T1 Fat Sat	Post SAGITTAL 3D FLAIR SPACE
Base Resolution	288	288	352	150	288	288	256
Phase Resolution	75%	86%	80%	100%	84%	80%	90%
Slice Resolution	—	—	—	—	—	—	70%
Averages	2	2	2	—	2	2	2
Concatenations	2	1	1	1	2	2	1
FoV Read	170 mm	170 mm	170 mm	200 mm	170 mm	170 mm	260 mm
FoV Phase	100%	100%	100%	100%	100%	100%	88%
Phase Encoding Dir.	R >> L	R >> L	R >> L	A >> P	R >> L	R >> L	A >> P
Slice Oversampling	—	—	—	—	—	—	9%
Phase Oversampling	60%	80%	100%	0%	80%	60%	0%
Slice Partial Fourier	—	—	—	—	—	—	Off
Phase Partial Fourier	Off	Off	Off	—	Off	Off	Allowed
Flow Compensation	None	None	None	667 Hz/Px	None	None	Fast

SCANNING RANGE

Scan Description	CORONAL STIR	CORONAL T1	AXIAL T2	AXIAL BLADE DWI	Post AXIAL T1 Fat Sat	Post CORONAL T1 Fat Sat	Post SAGITTAL 3D FLAIR SPACE
Raw Filter	Off	Off	Off	On	Off	Off	On
Elliptical Filter	Off	Off	Off	—	Off	Off	Off
Distortion Correction	2D	2D	2D	Off	2D	2D	2D
Normalize	Image Based	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Image Filter	Off	Off	Off	—	Off	Off	Off
Distance Factor	18%	18%	10%	0%	10%	18%	—
Slice Thickness	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	1.0 mm
Slices	28 Slices	28 Slices	21 Slices	21 Slices	21 Slices	28 Slices	176 Slices per Slab
Acquisition Time	2:56 min	1:46 min	1:39 min	3:20 min	2:32 min	2:44 min	5:07 min

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