ORBITS 3T

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	ftgBAE3	tse	tse	spcir
Dimension	2D	2D	2D	—	2D	2D	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA
Acceleration Factor PE	3	3	4	2	3	3	2
Acceleration Factor 3D	—	—	—	—	—	—	2
AutoAlign	Head > Optic Nerves	Head > Optic Nerves	Head > Optic Nerves	Head > Optic Nerves	Head > Optic Nerves	Head > Optic Nerves	Head > Brain

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
TR	3000.0 ms	600.0 ms	3600.0 ms	4000.0 ms	600.0 ms	600.0 ms	5000.0 ms
TE	43.00 ms	7.90 ms	91.00 ms	54.00 ms	7.90 ms	7.90 ms	376.00 ms
TI	220 ms	—	—	—	—	—	1600 ms
Flip Angle	150 deg	150 deg	150 deg	150 deg	150 deg	150 deg	Mode T2 Var
Turbo Factor	9	2	17	11	2	2	220
Bandwidth	300 Hz/Px	334 Hz/Px	260 Hz/Px	651 Hz/Px	334 Hz/Px	334 Hz/Px	698 Hz/Px
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	Fast	Fast	Fast	Normal

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

IMAGING FORUMS, INC.

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
Base Resolution	320	288	384	128	288	288	256
Phase Resolution	70%	86%	90%	—	86%	86%	100%
Slice Resolution	—	—	—	—	—	—	80%
Averages	1	1	2	1	1	1	2
Concatenations	2	2	1	1	2	2	1
b-value 1	—	—	—	0 s/mm2 1000 s/mm2	—	—	—
FoV Read	170 mm	170 mm	170 mm	200 mm	170 mm	170 mm	240 mm
FoV Phase	1	1	1	1	1	1	1
Phase Encoding Dir.	R >> L	R >> L	R >> L	A >> P	R >> L	R >> L	A >> P
Phase Oversampling	100%	100%	100%	50%	100%	100%	0%
Slice Oversampling	—	—	—	—	—	—	0%
Phase Partial Fourier	Off	Off	Off	—	Off	Off	Off
Slice Partial Fourier	—	—	—	—	—	—	Off
Flow Compensation	None	None	None	None	None	None	None

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
Elliptical Filter	Off	Off	Off	Off	Off	Off	Off
Image Filter	Off	Off	Off	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	2D	2D	2D	2D	2D	2D	3D
Distance Factor	18%	18%	10%	10%	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	2:02 min	1:52 min	1:32 min	3:08 min	1:53 min	1:53 min	4:23 min

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