NW
IMAGING FORUMS, INC.

INTERNAL AUDITORY CANALS (IAC) 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• This may be a standalone exam for follow-up or done in conjunction with sequences from Routine Adult Brain protocol • Contrast is used for almost all examinations • Can do noncontrast as screening study
Position	Supine, head first
Coil	20 channel Head and Neck coil or better
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	• Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2 3MM	AXIAL GRE	Pre CORONAL T1	AXIAL BLADE DWI	AXIAL FLAIR	Post CORONAL T1 Fat Sat	Post AXIAL T1 Fat Sat	AXIAL T2 SPACE/CISS	Post AXIAL T1
Sequence Name	epse	tir	tseB	fl_r	tse_rr	resolve	tirB	tse_rr	tse_rr	ci	tir
Dimension	—	2D	2D	2D	2D	2D	2D	2D	2D	3D	2D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	None	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	—	GRAPPA
Acceleration Factor PE	2	2	—	—	2	2	2	2	2	—	2
Acceleration Factor 3D	—	—	2	—	—	—	—	—	—	—	—
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > IAC	Head > IAC	Head > Brain	Head > IAC	Head > IAC	Head > IAC	Head > Brain

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2 3MM	AXIAL GRE	Pre CORONAL T1	AXIAL BLADE DWI	AXIAL FLAIR	Post CORONAL T1 Fat Sat	Post AXIAL T1 Fat Sat	AXIAL T2 SPACE/CISS	Post AXIAL T1
TR	4900.0 ms	1490.0 ms	5900.0 ms	858.0 ms	640.0 ms	6440.0 ms	8000.0 ms	510.0 ms	510.0 ms	6.2 ms	1800.0 ms
TE	98.00 ms	7.50 ms	105.00 ms	23.90 ms	11.00 ms	TE 1: 66 ms TE 2: 103 ms	TE 1: 109.00 ms TE 2: 2370 ms	11.00 ms	11.00 ms	2.81 ms	TE 1: 7.50 ms TE 2: 818 ms
TI	—	688 ms	—	—	—	—	—	—	—	—	—
Flip Angle	—	150 deg	150 deg	20 deg	160 deg	180 deg	150 deg	160 deg	160 deg	62 deg	150 deg
Turbo Factor	—	6	23	—	3	—	33	3	3	—	6
Bandwidth	1184 Hz/Px	240 Hz/Px	363 Hz/Px	200 Hz/Px	190 Hz/Px	694 Hz/Px	363 Hz/Px	190 Hz/Px	190 Hz/Px	454 Hz/Px	240 Hz/Px
Echo Spacing	1.04 ms	7.46 ms	8.72 ms	—	11.0 ms	0.38 ms	6.42 ms	11.0 ms	11.0 ms	—	7.46 ms
Echo Trains per Slice	—	25	17	—	41	—	12	41	41	—	16
EPI Factor	128	—	—	—	—	75	—	—	—	—	—
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Standard	Fat Saturation	Standard	Fat Saturation	Fat Saturation	Standard	Standard
Fat Saturation	Weak	—	—	—	—	Strong	—	Strong	Strong	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Normal	Fast	Fast	Normal	Normal	Fast	Fast
RF Pulse Type	Normal	Fast	Normal	Fast	Normal	Normal	Fast	Normal	Normal	Normal	Fast
Asymmetric Echo	—	—	—	Off	—	—	—	—	—	Allowed	—

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Supported by an educational grant from Bracco Diagnostics Inc.

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

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2 3MM	AXIAL GRE	Pre CORONAL T1	AXIAL BLADE DWI	AXIAL FLAIR	Post CORONAL T1 Fat Sat	Post AXIAL T1 Fat Sat	AXIAL T2 SPACE/CISS	Post AXIAL T1
Base Resolution	128	320	320	288	256	150	320	256	256	256	320
Phase Resolution	100%	70%	—	75%	80%	100%	—	80%	80%	100%	70%
Slice Resolution	—	—	—	—	—	—	—	—	—	100%	—
Averages	—	1	1	1	3	—	1	3	3	1	2
Concatenations	1	2	2	1	1	1	2	2	2	—	2
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	0 s/mm2 1000 s/mm2	—	—	—	—	—
FoV Read	220 mm	220 mm	220 mm	210 mm	180 mm	220 mm	230 mm	180 mm	180 mm	180 mm	220 mm
FoV Phase	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	81%
Phase Encoding Dir.	A >> P	A >> P	R >> L	A >> P	R >> L	A >> P	R >> L	R >> L	R >> L	R >> L	R >> L
Slice Oversampling	—	—	—	—	—	—	—	—	—	39%	—
Phase Oversampling	0%	20%	25%	0%	20%	0%	38%	20%	20%	25%	0%
Slice Partial Fourier	—	—	—	—	—	—	—	—	—	Off	—
Phase Partial Fourier	6/8	Off	—	Off	Off	Off	—	Off	Off	Off	Off
Flow Compensation	—	None	None	On	Read	—	None	Read	Read	None	None

SCANNING RANGE

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2 3MM	AXIAL GRE	Pre CORONAL T1	AXIAL BLADE DWI	AXIAL FLAIR	Post CORONAL T1 Fat Sat	Post AXIAL T1 Fat Sat	AXIAL T2 SPACE/CISS	Post AXIAL T1
Elliptical Filter	Off	On	Off	On	On	—	Off	On	On	On	On
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	Off	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
Distance Factor	0%	30%	0%	0%	10%	0%	0%	10%	10%	20%	30%
Slice Thickness	5.0 mm	5.0 mm	3.0 mm	5.0 mm	2.0 mm	3.0 mm	5.0 mm	2.0 mm	2.0 mm	0.7 mm	5.0 mm
Slices	30 Slices	25 Slices	55 Slices	30 Slices	15 Slices	20 Slices	30 Slices	15 Slices	15 Slices	52 Slices per Slab	24 Slices
Acquisition Time	51 sec	1:19 min	3:34 min	3:07 min	1:21 min	3:34 min	3:30 min	2:09 min	2:09 min	3:45 min	2:00 min

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