NW
IMAGING FORUMS, INC.

INTERNAL AUDITORY CANALS (IAC) 3T

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_rs	resolve	tirB	tse_rs	tse_rs	ci	tirB
Mode	—	2D	2D	2D	2D	Off	2D	2D	2D	2D	2D
PAT Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	—	GRAPPA
Acceleration Factor PE	2	2	2	2	2	2	2	2	2	—	2
AutoAlign	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > IAC	Head > Brain	Head > Brain	Head > IAC	Head > Brain	Head > Brain	Head > Brain

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
TR	4100 ms	1800.0 ms	4500.0 ms	743.0 ms	500.0 ms	6060 ms	8000.0 ms	600.0 ms	600.0 ms	8.08 ms	2020.0 ms
TE	95.0 ms	9 ms	117 ms	19.90 ms	9.8 ms	TE 1: 66 ms TE 2: 108 ms	98 ms	9.8 ms	9.8 ms	3.67 ms	TE 1: 44 ms TE 2: 868 ms
TI	—	818 ms	—	—	—	—	2370 ms	—	—	—	—
Flip Angle	—	150 deg	140 deg	20 deg	150 deg	180 deg	150 deg	150 deg	150 deg	50 deg	70 deg
Turbo Factor	—	4	24	—	3	—	28	3	3	—	9
Bandwidth	1562 Hz/Px	260 Hz/Px	363 Hz/Px	220 Hz/Px	362 Hz/Px	651 Hz/Px	363 Hz/Px	362 Hz/Px	362 Hz/Px	460 Hz/Px	362 Hz/Px
EPI Factor	128	—	—	—	—	96	—	—	—	—	—
Fat Saturation Mode	Weak	—	—	—	—	Strong	Strong	Strong	Strong	—	—
Fat Suppression	Fat sat.	None	None	None	None	Fat sat.	Fat sat.	Fat sat.	Fat sat.	None	None
Water Suppression	—	None	None	None	None	—	None	None	None	—	None
Gradient Mode	Fast*	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Normal	Fast	Fast	Normal	Fast	Fast	Fast	Low SAR	Low SAR
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.

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
Base Resolution	128	320	320	320	256	192	320	256	256	320	256
Phase Resolution	100%	—	—	75%	80%	100%	—	80%	80%	96%	—
Slice Resolution	—	—	—	—	—	—	—	—	—	81%	—
Averages	1	1	1	1	3	—	1	3	3	1	1
Averaging Mode	Long term	Long term	Short term	Long term	Long term	Short term	Short term	Long term	Long term	Short term	Short term
Concatenations	1	2	3	1	1	1	2	2	2	—	3
b-value	0 s/mm2 0 s/mm2 1000 s/mm2	—	—	—	—	0 s/mm2 0 s/mm2 1000 s/mm2	—	—	0 s/mm2 0 s/mm2 1000 s/mm2	—	—
FoV Read	220 mm	220 mm	220 mm	220 mm	160 mm	220 mm	230 mm	160 mm	160 mm	180 mm	220 mm
FoV Phase	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
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
Phase Oversampling	0%	0%	0%	0%	75%	—	0%	—	75%	0%	—
Slice Oversampling	—	—	—	—	—	—	—	75%	—	39%	0%
Phase Partial Fourier	6/8	Off	—	Off	Off	Off	—	Off	Off	Off	—
Slice Partial Fourier	—	—	—	—	—	—	—	—	—	7/8	No
Flow Compensation	—	—	—	—	Slice	—	—	—	Slice	No	—

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	Off
Filter	Prescan Normalize	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Distortion Corr. (2D), Prescan Normalize	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Raw filter, Prescan Normalize	Distortion Corr. (2D), Prescan Normalize	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr. (2D), Prescan Normalize, Image Filter
Normalize	—	Off	Off	Off	Off	—	Off	Off	Off	Off	Off
Prescan Normalize	On	On	On	On	On	On	On	On	On	On	On
Distance Factor	0%	30%	0%	0%	20%	0%	0%	20%	20%	20%	0%
Distortion Correction	Off	On	On	On	On	Off	On	On	On	On	On
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	13 Slices	30 Slices	30 Slices	13 Slices	13 Slices	52 Slices per Slab	30 Slices
Acquisition Time	43 sec	1:57 min	3:38 min	1:40 min	1:32 min	3:21 min	3:14 min	3:40 min	3:40 min	4:06 min	4:10 min

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