PITUITARY 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Dynamic contrast may be needed for some applications • This may be a standalone exam for follow-up or add sequences from Routine Adult Brain protocol • Contrast is used for almost all examinations • Postcontrast Coronal T1 Fat Saturation sequence can help in the postoperative patient
Position	Supine, head first
Coil	20 channel Head/Neck coil or better
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus or Power Injection 3 mL/sec 20 sec injector delay
Saline Flush	10-20 mL	Hand Bolus or Power Injection
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	Pre SAGITTAL T1	CORONAL T2	Pre CORONAL T1	Post CORONAL T1	Post SAGITTAL T1	AXIAL FLAIR	AXIAL GRE	Post AXIAL T1
Sequence Name	epse	tir	tseB	tirW	tse	tirW	tirW	tirW	tirB	fl_r	tir
Dimension	—	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
Acceleration Mode	GRAPPA	GRAPPA	None	GRAPPA	None	GRAPPA	GRAPPA	GRAPPA	GRAPPA	None	GRAPPA
Acceleration Factor PE	2	2	—	2	—	2	2	2	2	—	2
Acceleration Factor 3D	—	—	—	—	—	—	—	—	—	—	—
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Basis	Head > Basis	Head > Basis	Head > Basis	Head > Basis	Head > Brain	Head > Brain	Head > Brain

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2	Pre SAGITTAL T1	CORONAL T2	Pre CORONAL T1	Post CORONAL T1	Post SAGITTAL T1	AXIAL FLAIR	AXIAL GRE	Post AXIAL T1
TR	4900.0 ms	1490.0 ms	3200.0 ms	1500.0 ms	3000.0 ms	1500.0 ms	1800.0 ms	1800.0 ms	8000.0 ms	858.0 ms	1800.0 ms
TE	98.00 ms	7.50 ms	109.00 ms	9.20 ms	99.00 ms	8.40 ms	8.40 ms	8.40 ms	109.00 ms	23.90 ms	7.50 ms
TI	—	688 ms	—	692 ms	—	692 ms	818 ms	818 ms	2370 ms	—	818 ms
Flip Angle	—	150 deg	150 deg	150 deg	150 deg	150 deg	150 deg	150 deg	150 deg	20 deg	150 deg
Turbo Factor	—	6	32	6	15	6	6	6	33	—	6
Bandwidth	1184 Hz/Px	240 Hz/Px	363 Hz/Px	201 Hz/Px	191 Hz/Px	241 Hz/Px	241 Hz/Px	241 Hz/Px	363 Hz/Px	200 Hz/Px	240 Hz/Px
Echo Spacing	1.04 ms	7.46 ms	6.42 ms	9.20 ms	11.0 ms	8.38 ms	8.38 ms	8.38 ms	6.42 ms	—	7.46 ms
EPI Factor	128	25	16	21	26	18	18	21	12	—	16
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Standard	Standard	Fat Saturation	Fat Saturation	Standard	Standard	Standard
Fat Saturation	Weak	—	—	—	—	—	Strong	Strong	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Normal	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Normal	Fast	Fast	Fast	Fast	Fast	Fast
Asymmetric Echo	—	—	—	—	—	—	—	—	—	Off	—

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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	Pre SAGITTAL T1	CORONAL T2	Pre CORONAL T1	Post CORONAL T1	Post SAGITTAL T1	AXIAL FLAIR	AXIAL GRE	Post AXIAL T1
Base Resolution	128	320	320	256	320	256	256	256	320	288	320
Phase Resolution	100%	70%	—	70%	80%	70%	70%	70%	—	75%	70%
Averages	—	1	1	2	2	2	2	2	1	1	2
Concatenations	1	2	2	2	1	2	2	2	2	1	2
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	—	—	—	—	—	—
FoV Read	220 mm	220 mm	220 mm	160 mm	180 mm	180 mm	180 mm	160 mm	230 mm	210 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	R >> L	R >> L	A >> P	R >> L	A >> P	R >> L
Phase Oversampling	0%	20%	0%	40%	50%	20%	20%	40%	38%	0%	0%
Phase Partial Fourier	6/8	Off	—	Off	Off	Off	Off	Off	—	Off	Off
Flow Compensation	—	None	None	None	None	None	None	None	None	On	None

SCANNING RANGE

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL T2	Pre SAGITTAL T1	CORONAL T2	Pre CORONAL T1	Post CORONAL T1	Post SAGITTAL T1	AXIAL FLAIR	AXIAL GRE	Post AXIAL T1
Elliptical Filter	Off	On	Off	On	On	On	On	On	Off	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%	0%	0%	0%	0%	0%	0%	0%
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	5.0 mm	5.0 mm	5.0 mm
Slices	30 Slices	25 Slices	30 Slices	13 Slices	13 Slices	13 Slices	13 Slices	13 Slices	30 Slices	30 Slices	30 Slices
Acquisition Time	51 sec	1:19 min	1:50 min	2:11 min	2:41 min	1:53 min	2:15 min	2:36 min	3:30 min	3:07 min	2:00 min

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