PITUITARY 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• This may be a standalone exam for follow-up or add sequences from Routine Adult Brain protocol • 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	tseR	tir	tirW_rr	tirW_rr	tirB	fl_r	tirB
Dimension	—	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
PAT Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	None	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	2	2	2	—	2	2	2	2	2	2
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > Basis	Head > Basis	Head > Basis	Head > Brain	Head > Brain	Head > Brain	Head > Brain

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
TR	4100 ms	1800.0 ms	3000.0 ms	1800.0 ms	3000.0 ms	1800.0 ms	1800.0 ms	1800.0 ms	8000.0 ms	743.0 ms	2020.0 ms
TE	95.0 ms	9 ms	101 ms	8.9 ms	93 ms	9.5 ms	8.7 ms	8.7 ms	98 ms	19.90 ms	44 ms
TI	—	818 ms	—	818 ms	—	818 ms	818 ms	818 ms	2370 ms	—	868 ms
Flip Angle	—	150 deg	90 deg	150 deg	150 deg	150 deg	150 deg	150 deg	150 deg	20 deg	70 deg
Turbo Factor	—	4	24	7	17	5	5	7	28	—	9
Bandwidth	1562 Hz/Px	260 Hz/Px	363 Hz/Px	260 Hz/Px	260 Hz/Px	260 Hz/Px	260 Hz/Px	260 Hz/Px	363 Hz/Px	220 Hz/Px	362 Hz/Px
Fat Saturation Mode	Weak	—	—	—	—	—	Strong	Strong	Strong	—	—
Fat Suppression	Fat sat.	None	None	None	None	None	Fat sat.	Fat sat.	Fat sat.	None	None
Water Suppression	—	None	None	None	None	None	None	None	None	None	None
Gradient Mode	Fast*	Fast	Fast	Fast	Normal	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Fast	Normal	Normal	Normal	Normal	Normal	Fast	Fast	Low SAR
Asymmetric Echo	—	—	—	—	—	—	—	—	—	Off	—

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

IMAGING FORUMS, INC.

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
Base Resolution	128	320	320	256	384	256	256	256	320	320	256
Phase Resolution	100%	70%	—	80%	75%	80%	80%	80%	—	75%	—
Averages	1	1	1	1	3	1	1	1	1	1	1
Averaging Mode	Long term	Long term	Short term	Long term	Long term	Long term	Long term	Long term	Short term	Long term	Short term
Concatenations	1	2	2	2	1	2	2	2	2	1	3
b-value	1: 0 s/mm2 2: 1000 s/mm2	—	—	—	—	—	—	—	—	—	—
FoV Read	220 mm	220 mm	220 mm	160 mm	160 mm	160 mm	160 mm	160 mm	220 mm	220 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	R >> L	R >> L	A >> P	R >> L	A >> P	R >> L
Phase Oversampling	0%	0%	0%	40%	10%	20%	20%	40%	25%	0%	0%
Phase Partial Fourier	6/8	Off	—	Off	Off	Off	Off	Off	—	Off	—
Flow Compensation	—	No	No	No	No	No	Read	Read	No	Slice/Read	No

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	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	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	Distortion Corr. (2D), Prescan Normalize, Elliptical filter	Distortion Corr. (2D), Prescan Normalize, Image Filter
Normalize	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Prescan Normalize	—	On	On	On	On	On	On	On	On	On	On
Distortion Correction	Off	On	On	On	On	On	On	On	On	On	On
Distance Factor	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm	5.0 mm	5.0 mm	5.0 mm
Slices	30 Slices	25 Slices	30 Slices	12 Slices	12 Slices	12 Slices	12 Slices	12 Slices	30 Slices	30 Slices	30 Slices
Acquisition Time	43 sec	1:57 min	1:38 min	1:28 min	2:56 min	1:42 min	1:42 min	1:28 min	4:18 min	1:40 min	4:10 min

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