NW
IMAGING FORUMS, INC.

PITUITARY 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Exam consists of Sagittal and Coronal T1 weighted sequences with contrast and without contrast • Dynamic contrast may be needed for some applications • This may be a standalone exam for follow-up or add sequences from Routine Brain protocol • Contrast is used for almost all examinations • Post-contrast Coronal Fat Saturation sequence can help in the postoperative patient
Position	Supine, head first
Coil	Head, HNU (Head 24 selected if possible)
Landmark	Glabella/Nasion

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand injection 1 mL/sec For Dynamic - Power injection 2 mL/sec	Post Coronal T1 should be imaged immediately after contrast
Saline Flush	Hand injection 10-20 mL	Dynamic 20-30 mL saline 2 mL/sec	—
Comments	Report agent administered and dose		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FSFSE	AXIAL DWI	CORONAL T1 FSE	CORONAL T2 FRFSE	Post CORONAL T1 CUBE	C+ SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: Dynamic CORONAL T1 FSE	Optional: CORONAL FIESTA
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Optional	Optional
Mode	2D	2D	2D	2D	2D	2D	3D	2D	3D	3D BRAVO	2D	3D
Pulse Sequence	SSFSE	FSE-XL	FRFSE-XL	SE-EPI	FSE-XL	FRFSE-XL	CUBE	FSE-XL	CUBE	BRAVO	FSE	FIESTA-C
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	TRF, FAST, NPW	FC, TRF, FR, ZIP512	EPI, DIFF, ASSET	TRF, NPW	FC, TRF, ZIP512, NPW Optional Fat Sat	EDR, ZIP2, ZIP512, FR, ARC	FC, TRF, NPW	ARC, T2 IRP, ZIP2, EDR	FAST, IRP, ZIP2, ASSET	NPW, FAST, TRF, ZIP512, MPH	NPW, EDR, FAST, ZIP2

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FSFSE	AXIAL DWI	CORONAL T1 FSE	CORONAL T2 FRFSE	Post CORONAL T1 CUBE	C+ SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: Dynamic CORONAL T1 FSE	Optional: CORONAL FIESTA
TE	80	Min-Full	68	Min	Min-Full	85	24	Min-Full	Fixed with TR	—	Min-Full	Min
TR	1000	500-700	3500-4250	9000	500-700	3600	550	500-700	6000	—	800	—
TI	—	—	—	—	—	—	—	—	1954 (Fixed with TR)	450	—	—
Flip Angle	—	Auto	Auto	Auto	Auto	Auto	13	Auto	Auto	13	—	55
ETL	—	3	25	—	3	21	24	3	160	—	6	—
Bandwidth	83	20	31	125	20	41	62	20	32	25	31	36
Sat	—	—	Fat	Fat	—	Fat (Flex if available)	Fat	Fat Sat	Fat	—	—	—

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FSFSE	AXIAL DWI	CORONAL T1 FSE	CORONAL T2 FRFSE	Post CORONAL T1 CUBE	C+ SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: Dynamic CORONAL T1 FSE	Optional: CORONAL FIESTA
MATRIX freq	256	320	320	128	320	320	288	320	256	256	224	256
MATRIX phase	192	256	256	128	256	224	288	256	256	256	192	256
NEX	1	2	2	1	2	2	1	2	1	1	1	1
Phase FOV	1	1	0.75	1	1	1	0.7	1	—	—	—	—
Freq Direction	Unswap	S/I	A/P	R/L	S/I	S/I	S/I	S/I	S/I	A/P	S/I	S/I
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	—	Freq	Freq	—	—	—	—	—	—
Imaging Options	—	—	—	DIFF Dir-All #T2 images 1 Nex 1 for T2 B1000/1 Nex OPT TE On Dual SE On ACC=2 Ramp Samp 1 Recon 1 Grad OPT 1	—	—	Fat Sat Eff 1 CUBE Enh 3 ACC=2	—	ACC=2 SL=2	ACC=2	—	—

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FSFSE	AXIAL DWI	CORONAL T1 FSE	CORONAL T2 FRFSE	Post CORONAL T1 CUBE	C+ SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: Dynamic CORONAL T1 FSE	Optional: CORONAL FIESTA
FOV	30	18	22	24	18	18	24	18	25	25	18	18
Slice Thickness	7	3	5	5	3	3	1	3	1.6	1.2	3	1.2
Spacing	5	INT	Interleaved	1	INT	0.5	—	INT	0	0	0	—
Number of Slices	7-Ax/Sag/Cor	12-15	24-26	24-26	15-20	15-20	112	12-15	126	140	Pre and 5 runs post. No scan delay	1 Slab-60
Scan Time	0:18 sec	~3.5 min	~2-3 min	~2-3 min	~3.5 min	4-5 min	2:30 min	~3-4 min	3-5 min	3:30 min	~3.5 min	0:30 sec

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