NW
IMAGING FORUMS, INC.

PITUITARY 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Exam consists of Sagittal and Coronal T1 weighted sequences with and without contrast. Coronal T2 or FIESTA images may also be useful • 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 • Postcontrast Coronal Fat Saturation sequence can help in the postoperative patient
Position	Supine, head first
Coil	8 channel Head or GEM HNU
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	10-20 mL	20 mL saline 2 mL/sec	—
Comments	• Report agent administered and dose • Consider MPR 3 mm recons of all 3D sequences in all non-acquired planes		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FS FSE	AXIAL DWI	CORONAL T2 FRFSE	CORONAL T1 FSE	Post CORONAL 3D T1 CUBE	Post SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: CORONAL FIESTA	Add Dynamic CORONAL T1 FSE
Primary Sequence	Yes	Yes	Yes	Yes	Optional	Yes	Yes	Yes	Yes	Yes	Optional	Optional
Mode	2D	2D	2D	2D	2D	2D	3D	2D	3D	3D BRAVO	3D	2D
Pulse Sequence	SSFSE	FSE-XL	FRFSE-XL	SE-EPI	FRFSE-XL	FSE-XL	CUBE	FSE-XL	CUBE	BRAVO	FIESTA-C	FSE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	NPW	FC, TRF	EPI, DIFF, ASSET	FC, TRF, ZIP512, NPW	TRF, NPW	EDR, ZIP2, ZIP512, FR, ARC	FC, TRF, NPW	ARC, T2 IRP, ZIP2, EDR	FAST, IRP, ZIP2, ASSET	NPW, EDR, FAST, ZIP2	NPW, FAST, TRF, ZIP512, MPH

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FS FSE	AXIAL DWI	CORONAL T2 FRFSE	CORONAL T1 FSE	Post CORONAL 3D T1 CUBE	Post SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: CORONAL FIESTA	Add Dynamic CORONAL T1 FSE
TE	80	Min-Full	80	Min	85	Min-Full	24	Min-Full	Fixed with TR	—	Min	Min-Full
TR	1000	500-700	3500-4250	9000	3600	500-700	550	500-700	6000	—	—	800
TI	—	—	—	—	—	—	—	—	1954 (Fixed with TR)	450	—	—
Flip Angle	—	Auto	Auto	—	Auto	Auto	—	Auto	Auto	13	55	—
ETL	—	2-3	19	—	21	2-3	24	2-3	160	—	—	6
Bandwidth	83	41	41	125	41	41	62	41	32	25	36	31
Sat	—	—	Fat	—	Fat Sat (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 FS FSE	AXIAL DWI	CORONAL T2 FRFSE	CORONAL T1 FSE	Post CORONAL 3D T1 CUBE	Post SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: CORONAL FIESTA	Add Dynamic CORONAL T1 FSE
MATRIX freq	256	320	384	128	320	320	256	320	256	256	256	224
MATRIX phase	192	256	256	128	224	256	256	256	256	256	256	192
NEX	1	2	2	1	2	2	1	2	1	1	1	1
Phase FOV	Full	1	0.75	1	1	1	.8	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	—	SCIC	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	—	—	CUBE Enh 3 ACC=2	—	ACC=2 SL=2	ACC=2	ACC=2 SL=2	—

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FSE	AXIAL T2 FS FSE	AXIAL DWI	CORONAL T2 FRFSE	CORONAL T1 FSE	Post CORONAL 3D T1 CUBE	Post SAGITTAL T1 FSE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Optional: CORONAL FIESTA	Add Dynamic CORONAL T1 FSE
FOV	30	18	22	24	16	16	24	18	25	25	16	16
Slice Thickness	7	3	4	5	3	3	1	3	1.6	1.2	1.2	2
Spacing	5	INT	1	1	0.5	INT	—	INT	—	—	—	0
Number of Slices	7-Ax/SagCor	12-15	24-26	24-26	15-20	15-20	200	12-15	126	140	1 Slab-60	Pre and 5 runs Post. No scan delay
Scan Time	0:18 sec	~3.5 min	~2-3 min	0:50 sec	4-5 min	~3.5 min	3-5 min	~3-4 min	3-5 min	4 min	0:30 sec	~3.5 min

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