NW
IMAGING FORUMS, INC.

ADRENAL 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Common Indications	Characterization or follow up of adrenal mass, suspicion of pheochromocytoma (refractory hypertension, elevated plasma or urine catecholamines)
Position	Supine
Coil	32 channel Torso array, GEMS Body array, or Air coil
Landmark	Xyphoid

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	2 mL/sec	Smart Prep Bolus Tracker - Peak Arterial plus 12 sec
Saline Flush	50 mL	2 mL/sec	Immediately following gadolinium
Dynamic LAVA Notes	• Pre Arterial: Smart Prep-Tracker in mid aorta - 12 sec delay • 90-120 sec delay • 3-5 min after injection		

Comments	Quiet breathing	Expiration	Kidneys/Adrenals	Proton Density Fat-fraction (PDFF) and R2* quantification (must be precontrast)	Kidneys/Adrenals	Kidneys/Adrenals Pre, Late Arterial, 90-120 sec, 3-5 min	Kidneys/Adrenals	Optional: Resp Trig Kidneys/Adrenals

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	CORONAL ARC SSFSE	AXIAL RT T2 Fat Sat	AXIAL IDEAL - IQ	AXIAL In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
Mode	2D	2D	2D	3D	3D	3D	3D	2D
Pulse Sequence	SSFSE	SSFSE	FRFSE-XL	IDEAL-IQ	FAST SPGR	LAVA Type in: efgre3d_aspir if available	LAVA-Flex	DWI EPI
Imaging Options	SEQ, FAST, SS, ARC	EDR, FAST, SS, ARC	Resp Trig, ARC, TRf, FAST	FAST, EDR, IDEAL, ARC	FAST, ZIP2, ARC	ARC, Art-Smartprep, EDR, ZIP2, FAST	EDR, FAST, ZIP2, ARC	Resp Trig, EPI, DIFF, ASSET

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	CORONAL ARC SSFSE	AXIAL RT T2 Fat Sat	AXIAL IDEAL - IQ	AXIAL In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
TE	90	90	90	# Def (6) Shots Min	#TEs 2 TE 1 Min (1.1) TE 2 2.3	Def	Def	Min
TR	Min	Min	Def	Def	Def (4)	Def	MF	Def
TI	—	—	—	3	—	InvTI Auto	—	—
Flip Angle	—	—	—	3	15	15	12	—
ETL	—	—	16	100	—	—	—	—
Bandwidth	83	83	62	—	143	83	90	(Def)
SAT	—	—	Sat Scr Fat	—	—	Sat Scr Special Fat Sat	—	—

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Body MR Imaging

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ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	CORONAL ARC SSFSE	AXIAL RT T2 Fat Sat	AXIAL IDEAL - IQ	AXIAL In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
MATRIX freq	288	320	320	224	288	260	—	192
MATRIX phase	192	224	224	160	192	200	192	192
NEX	1	1	2	0.75	1	1	Def	—
Phase FOV	1	1	0.8	0.8	0.9	0.9	1	1
Freq Direction	—	S/I	R/L	R/L	R/L	R/L	S/I	R/L
Accel	Ph 2	Ph 2	Ph 2	Ph 2, Sl 2	Ph 2, Sl 2	Ph 1.5, Sl 1.5. (can increase for poor breath holders)	Ph 2, Sl 2	Ph 2
User CV	1, 240, 1	—	Blur canc 1 Fat Sat eff 1 FnLn Sup 0	—	—	CV6 1 For Smartprep: CV2 40 CV4 (acq delay) 12	Turbo Arc 2	Rmp smp 1 Recon Type 1 Grad opt 1 Enh Prep 1
Other	—	Max # of echos 240	—	—	—	—	—	DWI b val 50 1 nex b val 400-800 4 nex Diff dr 3 in 1 OptTE On Dual SE Off Resp. 2 RR Tr Pt 30% Tr Wd 30% Del Min

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE ARC	CORONAL ARC SSFSE	AXIAL RT T2 Fat Sat	AXIAL IDEAL - IQ	AXIAL In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
FOV	48	40	36	40	38	38	40	40
Slice Thickness	8	4	4	6	3.6	3.6	3	4
Spacing	0	0	1	0	0	0	—	1
Number of Slices	21 Slices	PRN	—	32 Locs	70 Locs PRN	70 Locs PRN	90 Slices	PRN
Approx. Scan Time	0:13	0:25/acq	4:00 ±	0:20	0:23	0:17	0:22	@ 2:29

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