RENAL 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Common Indications	Characterization or follow up of renal mass, patients with malignancy, infection
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 • 4-5 min after injection		

Comments	Quiet breathing	Expiration	Kidneys	Kidneys	Kidneys Pre, Late Arterial, 90-120 sec, 4-5 min	Kidneys	Resp Trig Kidneys

IMAGING PARAMETERS

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

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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	CORONAL ARC SSFSE	AXIAL RT T2 Fat Sat	AXIAL In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
MATRIX freq	288	320	320	288	260	—	192
MATRIX phase	192	224	224	192	200	192	192
NEX	1	1	2	1	1	Def	—
Phase FOV	1	1	0.8	0.9	0.9	1	1
Freq Direction	—	S/I	R/L	R/L	R/L	S/I	R/L
Accel	Ph 2	Ph 2	Ph 2	Ph 2, SI 2	Ph 1.5, Sl 1.5 (can increase for poor breath holders)	Ph 2, Sl 2	Ph 2
User CV	1, 240, 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 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 In/Out Phase	AXIAL T1 3D Fat Sat	CORONAL T1 LAVA-Flex	AXIAL DWI ASSET
FOV	48	40	36	38	38	40	40
Slice Thickness	8	5	5	3.6	3.6	3	5
Spacing	0	0	1	0	0	—	1
Number of Slices	21 Slices	PRN	—	70 Locs PRN	70 Locs PRN	90 Slices	PRN
Approx. Scan Time	0:13	0:25/acq	3:30	0:23	0:17	0:22	@ 2:29

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