BREAST BILATERAL ROUTINE 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Ensure to increase the FOV as needed to include all breast tissue and axillae; use same FOV for all sequences • Be careful about reducing FOV; sequences may be signal starved • Ensure to pull abdominal tissue down to prevent a fold into the coil and FOV • Ensure to pull medial breast tissue into coil, and if there is a side panel, to push that in so it is gently touching the breast to prevent motion • Ensure axilla tissue is in the coil and not above the side panel
Common Indications	Diagnostic and screening
Position	Prone
Coil	Bilateral Breast Coil
Landmark	Mid-breast, Nipples

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	2 mL/sec
Saline Flush	20 mL	2 mL/sec
Comments	—	

IMAGING PARAMETERS

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Silicone Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
Imaging Mode	2D	2D	3D	3D	2D	2D	3D
Pulse Sequence	Spin Echo	FSE-XL	VIBRANT	VIBRANT	Spin Echo	FSE-XL	VIBRANT
Imaging Options	SEQ, EDR, TRF, FAST, SS, ARC	EDR, TRF, FAST, ZIP512, FR, ARC	EDR, FAST, ASSET	FAST, ASSET, MPh	EPI, DIFF, ASSET, IrP	FC, SEQ, TRF, FAST, ZIP512, ASSET, IrP	EDR, FAST, MPh, ARC, Flex
Phase Acceleration	2	3	2	2	2	3	2.5
Slice Acceleration	—	—	—	—	—	—	1
Intensity Correction	None	PURE	PURE	PURE	PURE	PURE	PURE

SATURATION

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Silicone Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
Fat/Water Saturation	—	Fat Use Fat Special if available	—	Fat Special	—	Water	—
Diffusion/Multi-Phase	—	—	—	#Phases 3 Mask Phases 1 Mask Pause ON Series per Phase ON	Bval 800 OPT TE Yes NEX 8 Diff Dir All T2 image Nex 4 RTFA ON	—	#Phases 3 Mask Phases 1 Mask Pause ON Series per Phase ON
User CVS	User CV1: 1	User CV6: None User CV7: None User CV9: None User CV15: None User CV18: 1 User CV19: 1 User CV21: 1 User CV22: 1 User CV30: 1 User CV39: 1	User CV6: None User CV: 40 None	—	User CV0: 1 User CV5: 1 User CV7: None User CV8: 2 User CV9: 1 User CV16: None User CV17: 1 User CV18: 2	User CV7: None User CV15: None User CV18: None User CV21: None User CV22: None User CV30: 1	—

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Supported by an educational grant from Bracco Diagnostics Inc.

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

NW IMAGING FORUMS, INC.

SCAN TIMING

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Silicone Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
Flip Angle	—	111	10	10	—	111	10
TE	80	85	—	—	Minimum	40	Minimum
Number of Echoes	1	1	1	1	1	1	2
TR	Minimum	4013	—	—	4000	5500	—
TI	—	71	—	16	247	180	—
Echo Train Length	—	16	—	—	—	10	—
Number of Shots	—	—	—	—	1	—	—
Receiver Bandwidth	83.33	31.25	83.33	83.33	—	62.5	166.67

SCAN RANGE

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Silicone Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
FOV	44	32	32	32	36	32	32
Slice Thickness	7	2	0.7	0.7	4	4	0.7
Slice Spacing	10	Intleave	—	—	0	Intleave	—
Number of Slices	—	30	—	—	—	—	—
Location per Slab	—	—	276	276	—	—	276
No Slab Wrap	1	—	—	—	—	—	1.03
Slice Resolution (%)	100	—	50	50	—	—	50

ACQUISITION TIMING

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Silicone Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
Freq	256	288	448	448	192	288	350
Phase	160	288	448	448	128	288	350
Freq DIR	Unswap	A/P	A/P	A/P	R/L	A/P	A/P
NEX	—	1	—	1	—	2	—
Phase FOV	1	1	1	1	1	1	1
Flow Comp Direction	—	—	—	—	—	Slice	—
RF Drive Mode	Preset	Preset	Preset	Preset	Preset	Preset	Preset
Excitation Mode	Selective	Selective	—	Selective	Selective	Selective	Selective
Approx. Scan Time	0:30	4:30	2:30	10:45	4:15	10:30	10:30

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