NW
IMAGING FORUMS, INC.

BREAST BILATERAL ROUTINE 1.5T

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	SPGR	VIBRANT	Spin Echo	FSE-XL	VIBRANT
Imaging Options	SEQ, EDR, FAST, SS, ARC	EDR, TRF, FAST, FR, ARC	EDR, FAST, ASSET	EDR, FAST, ASSET, MPh	EPI, DIFF, ASSET	FC, SEQ, TRF, FAST, ASSET, IrP	EDR, FAST, MPh, ARC, Flex
Phase Acceleration	2	3	3	3	3	2	1.1
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 ON NEX 6 Diff Dir All T2 Image NEX 6 RTFA 1	—	#Phases 3 Mask Phases 1 Mask Pause ON Series per Phase ON
User CVS	User CV1: None User CV2: 240.00 User CV13: 1.00 User CV39: 1.00	User CV6: None User CV7: None User CV9: None User CV12: 1.00 User CV15: None User CV18: None User CV19: 1.00 User CV21: 1.00 User CV30: 1.00 User CV39: 1.00	User CV4: None User CV6: 2 User CV23: 90 User CV34: 90	User CV6: None User CV30: 1.00 User CV32: None	User CV0: 1.00 User CV5: 1.00 User CV7: None User CV9: 1.00	User CV7: None User CV15: None User CV18: None User CV21: None User CV30: 1.00	User CV6: 1.00 User CV13: None User CV16: None User CV30: 1.00 User CV34: 70.00

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
Breast MR Imaging

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	—	160	10	10	—	160	10
TE	80	85	In Phase	—	Minimum	40	Min Full
Number of Echoes	1	1	1	1	1	1	2
TR	Minimum	3545	Minimum	—	5000	5500	—
TI	—	59	—	14	—	150	—
Echo Train Length	—	15	—	—	—	10	—
Receiver Bandwidth	83.33	35.71	50	50	—	41.67	100

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	38	32	32	32	36	32	32
Slice Thickness	10	2.4	0.7	0.7	4	4	0.7
Slice Spacing	10	Intleave	—	—	0	Intleave	—
Number of Slices	—	32	1	1	—	40	1
Location per Slab	—	—	276	276	—	—	276
Overlap Locations	0	—	0	0	0	—	0
Slice Resolution (%)	100	—	50	50	100	—	50

ACQUISITION TIMING

Scan Description	3 PLANE LOCALIZER	AXIAL T2 Fat	Pre AXIAL T1	DYNAMIC VIBRANT	AXIAL DWI	Implant: AXIAL FSTIR	Optional if Fat Sat Issues: Flex DYNAMIC VIBRANT
Freq	256	288	448	448	192	320	320
Phase	160	288	448	448	192	224	320
Freq DIR	Unswap	A/P	A/P	A/P	A/P	A/P	A/P
NEX	—	1	1	1	—	2	—
# of Acq. Before Pause	0	0	—	—	—	0	—
Phase FOV	1	1	1	1	1	1	1
Flow Comp Direction	—	—	—	—	—	Slice	—
Approx. Scan Time	0:30	3-5 min	2:30	10:45	4:15	5:00	10:30

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.