FULL BREAST 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	FOV should be adjusted to just include all breast tissue including axillae; use same FOV for all Axial series
Common Indications	Diagnostic and screening
Position	Head First, Prone
Coil	Bilateral Breast Coil
Landmark	Mid-breast, Nipple

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	3 mL/sec
Saline Flush	20 mL	3 mL/sec
Comments	Report agent administered and dose	

IMAGING PARAMETERS

Scan Description	Routine LOCALIZER	Routine AXIAL STIR	Routine AXIAL T1 3D DYNAMIC Pre	Routine AXIAL T1 3D DYNAMIC 3 PHASES	Routine SAGITTAL T1 VIBE Post
Pulse sequence	fl	tir_rr	fl	fl	fl
Dimension	2D	2D	3D	3D	3D
PAT mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
mmPAT	2	3	3	3	2
Acceleration factor 3D	—	—	1	1	1
Acceleration factor PE	2	3	3	3	2

SCAN PARAMETERS

Scan Description	Routine LOCALIZER	Routine AXIAL STIR	Routine AXIAL T1 3D DYNAMIC Pre	Routine AXIAL T1 3D DYNAMIC 3 PHASES	Routine SAGITTAL T1 VIBE Post
TR	6.0 ms	5500.0 ms	4.52 ms	4.52 ms	4.64 ms
TE	2.46 ms	52.0 ms	1.80 ms	1.80 ms	1.73 ms
TI	—	215 ms	—	—	—
Flip Angle	30 deg	150 deg	11 deg	11 deg	11 deg
Turbo factor	—	12	—	—	—
Bandwidth	480 Hz/Px	260 Hz/Px	400 Hz/Px	400 Hz/Px	390 Hz/Px
Dixon	—	—	Off	Off	Off
Water suppr.	None	None	None	None	None
Fat suppr.	None	None	SPAIR	SPAIR	SPAIR
Saturation mode	Standard	—	—	—	—
Gradient mode	Fast	Normal	Fast	Fast	Fast
RF pulse type	Fast	Normal	Fast	Fast	Fast
Asymmetric echo	Off	Off	Weak	Weak	Weak

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Supported by an educational grant from Bracco Diagnostics Inc.

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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	Routine LOCALIZER	Routine AXIAL STIR	Routine AXIAL T1 3D DYNAMIC Pre	Routine AXIAL T1 3D DYNAMIC 3 PHASES	Routine SAGITTAL T1 VIBE Post
Base resolution	288	320	416	416	384
Phase resolution	80%	100%	100%	100%	75%
Slice resolution	—	—	50%	50%	80%
Averages	1	2	1	1	1
Averaging mode	Short term	Long term	Short term	Short term	Short term
Concatenations	28	2	1	1	1
FoV read	450 mm	290 mm	290 mm	290 mm	230 mm
FoV phase	100%	100%	100%	100%	100%
Phase enc. dir.	A >> P	R>>L	R >> L	R >> L	H>>F, H>>L
Phase partial fourier	Off	Off	7/8	7/8	7/8
Phase oversampling	10%	30%	40%	40%	75%
Slice partial fourier	—	—	7/8	7/8	7/8
Slice oversampling	—	—	11%	11%	9%
Flow compensation	No	Read	—	—	—

SCANNING RANGE

Scan Description	Routine LOCALIZER	Routine AXIAL STIR	Routine AXIAL T1 3D DYNAMIC Pre	Routine AXIAL T1 3D DYNAMIC 3 PHASES	Routine SAGITTAL T1 VIBE Post
Filter	Distortion Corr.(2D)	Distortion Corr.(2D), Normalize, Elliptical filter	Distortion Corr.(3D), Prescan Normalize, Elliptical filter	Distortion Corr.(3D), Prescan Normalize, Elliptical filter	Distortion Corr.(3D), Prescan Normalize, Elliptical filter, Image Filter
Slice thickness	5.5 mm	4.0 mm	0.8 mm	0.8 mm	1.6 mm
Distance factor	150%	0%	20%	20%	20%
Slices	7 Slices	55 Slices	144 Slices per Slab	144 Slices per Slab	176 Slices per Slab
Time of Acquisition	0:25	4:59	2:52	3:31	2:59

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