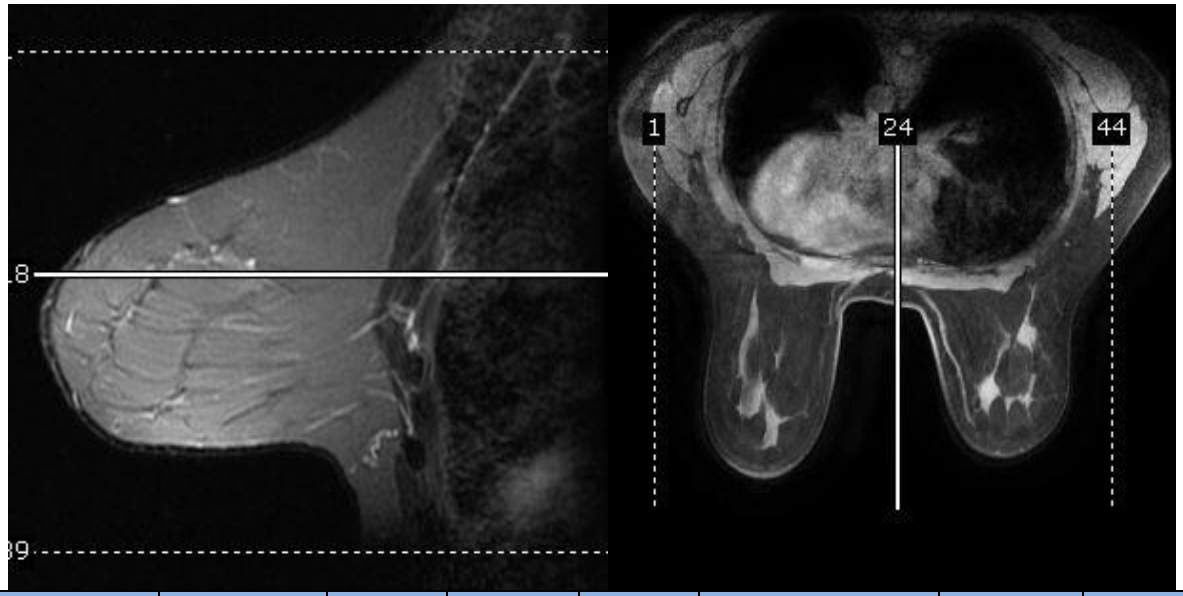
MRI BREAST ROUTINE

SELECT RADIOLOGY SOLUTIONS
A Division of Radiology Imaging Associates

Approval: E. Alvarez, MD rev:1 1/2026



Sequence	Pulse Sequence	FAT SAT	FOV	Slice Thick (mm)	Gap (mm)	Matrix		Scan Direction	NOTES
						Phase	Freq		
3 plane loc									
AX T1	TSE	NONE	30-39	4	1	432	576	S-I	*No FS. Adjust FOV to breast and adjust matrix size to be 0.6x0.6*
AX STIR	IR	TI 215	30-39	4	1	320	320	S-I	*Adjust FOV to breast and adjust matrix size to be 0.9x0.9*
AX 3D T1 (TEST SCAN)	FLASH	YES (spair)	30-39	1.2	0	480	456	S-I	*DO NOT SEND TO PACS. USE TO ENSURE NO WRAP FOR DYNAMIC SERIES.*

									SLICE THICKNESS CAN GO AS MUCH A 2 FOR COVERAGE. DO NOT ADD SLICES, IT WILL IMPACT YOUR TIMING *Adjust FOV to breast and adjust matrix size to be 0.7x0.7*
POWER INJECT CONTRAST									
AX 3D T1 DYNAMIC	FLASH	YES (spair)	30-39	1.2	0	480	456	S-I	*-5 PHASES. 1ST phase is the pre.* *-Adjust FOV to breast and adjust matrix size to be 0.7x0.7* *-Subtract post from pre for each contrast series. Combine into one subtracted series once post processed ROT VOLs are done.* *-send dynamic and sub series to PACS*
POST PROCESSING									
SAGITTAL STS			35	1	1				*-USE PHASE 5 OF THE DYNAMIC SERIES* *-CREATE A SAGITTAL STS 1X1*
RT ROT VOL	*-USE PHASE 2 OF THE SUB SERIES* *-CREATE A ROTATING VOLUME (mpr) WITH THE NIPPLE POINTING UP OF THE RIGHT BREAST* *-ROTATE ON THE VERTICAL AXIS* *-39 IMAGES ROTATING 360 DEGREES*								
LT ROT VOL	*-USE PHASE 2 OF THE SUB SERIES* *-CREATE A ROTATING VOLUME (mpr) WITH THE NIPPLE POINTING UP OF THE LEFT BREAST* *-ROTATE ON THE VERTICAL AXIS*								

	-39 IMAGES ROTATING 360 DEGREES
DYNACAD	*PROCESS THE IMAGES IN DYNACAD AND SEND THE COLOR IMAGES BACK TO PACS*

- **COMPLETE THE BREAST HISTORY SHEET AND SCAN IN WITH EXAM**