



Policy #: Rad Proc 14. 17. 2

SUBJECT: SILICON BREAST

Effective: 10/1/2013  
Reviewed: 2.2015; 2/2017

APPROVED BY

Page 1 of 2

Purpose: To provide MRI staff with approved protocol for performing a Silicone Implant breast.

PLANE	3 PLN LOC	CALIBRATION	SAG T2 STIR WATER SAT LT	SAG T2 STIR WATER SAT RT	AX T2 STIR WATER SAT	SAG T2 FS LT SILICONE SUPPRESSION	SAG T2 FS RT SILICONE SUPPRESSION	AX T2 STIR SILICONE SUPPRESSION	AX T1 ASSET
SEQ	SSFSE	GRE	IR	IR	IR	FSEXL	FSEXL	IR	FSEXL
MODE	2D	2D	2D	2D	2D	2D	2D	2D	2D
IMAGING OPTIONS	SEQ/FAST/SS	FAST/SS	FC/NPW/SEQ/TRF/FAST	FC/NPW/SEQ/TRF/FAST	FC/NPW/SE/TRF/FAST	NPW/TRF/FAST	NPW/TRF/FAST	FC/SEQ/TRF/FAST	TRF/FAST/FR/ASSET
TE	80 ms+		200 ms +	200 ms +	200 ms +	90 ms+	90 ms+	200 ms	MIN FULL
TR	MIN		4000 ms+	4000 ms+	4000 ms+	3800 ms+	3800 ms+	4000 ms+	400-600 ms
TI			150 ms	150 ms	150 ms			400 ms	
FLIP ANGLE									
ETL			12	12	12	12-18	12-18	12	2
BW	83.33		20.83	20.83	15.63	41.67	41.67	20.83	31.25
FOV	40	48	20	20	36	20	20	36	36
SLICE THICKNESS	7	15	5	5	5	5	5	5	5
SLICE SPACING	5	0	1	1	1	1	1	1	1
Frequency	256		256	256	256	256	256	256	384
Phase	160		192	192	192	224	224	192	256
NEX			2	2	2	2	2	1	1
PHASE FOV	1							1	1
FREQ DIR	UNSWAP	A/P	A/P	A/P	A/P	A/P	A/P	A/P	A/P
FLOW COMP DIR			FREQ	FREQ	SLICE			SLICE	FREQ
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF	ON

EXAM: SILICONE BREAST ORIENTATION : HEAD FIRST/PRONE COIL : HD BREAST Note : Addition

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<b>APPROVED BY</b>	<b>Page 2 of 2</b>

al sequences may be requested at the discretion of the Radiologist monitoring the exam.

**NOTES:** SAG T2 STIR WATERSAT RT & LT: Auto and manual prescan. Go to CF fine and center on the fat peak to suppress the water. Fat is 220 Hz (to the right) of water. Hit done and scan. This requires you to move the slider to the left or right to center on the fat peak.

AX T2 STIR WATERSAT: Auto and manual prescan. Go to CF fine and center on the fat peak to suppress the water. Fat is 220 Hz to the right of water. Hit scan and done. This requires you to move the slider to the left or right to center on the fat peak.

SAG T2 FSE SILICONE SUPPRESSION RT & LT: Place a shim volume over the left breast. Auto and manual prescan. Then go to CF fine and center on the water peak. Go to options, modify RSP, type in csf and hit enter. The default will read 220. Change the value to (-320) and hit enter. This will place the chemsat pulse over the silicone peak. Hit done and scan. Silicone will be suppressed.

AX T2 STIR SILICONE SUPPRESSION: Keep a TI of 400. This will suppress the silicone