

MRI Breast Combo

Updated 06/06/26

Reviewed 06/06/26

Indications: combined lesion detection & implant integrity protocols.

Patient is scanned in the prone position to decrease respiratory motion artifact.

Rotate images to anatomic position prior to sending images to PACS.

Pulse Sequence	PACS Name	plane	fat sat	water sat	slice (mm)	gap (mm)	first slice
T1	T1 AX BILAT	ax	no	NA	4	1	top
T2	T2 AX BILAT	ax	no	NA	4	1	top
STIR	STIR AX BILAT	ax	no	no	4	1	top
STIR	SILICONE AX	ax	no	yes	4	1	top
STIR	SILICONE SAG RIGHT	sag	no	yes	4	1	left
STIR	SILICONE SAG LEFT	sag	no	yes	4	1	left
3D T1	T1 FS PRE RIGHT	sag	yes	NA	2	none	left
3D T1	T1 FS PRE LEFT	sag	yes	NA	2	none	left
T1	T1 FS DYN	ax	yes	NA	1.6	none	top

CONTRAST - 2 mL/sec standard dose gadolinium (0.2 mL/kg Clariscan or 0.1 mL/kg Gadavist) followed by 20 mL saline flush.

3D T1	T1 FS DYN	ax	yes	NA	1.6	none	top
3D T1	T1 FS DYN	ax	yes	NA	1.6	none	top
3D T1	T1 FS DYN	ax	yes	NA	1.6	none	top
3D T1	T1 FS DYN	ax	yes	NA	1.6	none	top
3D T1	T1 FS DYN	ax	yes	NA	1.6	none	top
3D T1	T1 FS POST RIGHT	sag	yes	NA	2	none	left
3D T1	T1 FS POST LEFT	sag	yes	NA	2	none	left

RECONS:

axial subtraction of the 1st dynamic post contrast sequence

sagittal subtractions of right and left breast

horizontal & vertical MIP spinners the 1st dynamic post contrast sequence

FOR DEVICES WITH A 30 MINS RESTRICTION ON SCAN TIME:

cannot perform the combo protocol in the same imaging time period

obtain the lesion detection protocol sequences (minus pre contrast sagittals) during one imaging period

obtain the implant integrity protocol sequences during another time period (separated from the lesion detection images by at least 60 minutes break)