

MRI Lesion Detection

Updated 02/17/20

Reviewed 05/14/25

Indications: newly diagnosed breast cancer, follow-up after neoadjuvant therapy, post lumpectomy with positive margins, high-risk & intermediate-risk patients, metastatic cancer of probable breast origin, inconclusive diagnostic evaluation. 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	slice (mm)	gap (mm)	first slice
T2	T2 AX BILAT	ax	no	4	1	top
STIR	STIR AX BILAT	ax	no	4	1	top
3D T1	T1 FS PRE RIGHT	sag	yes	2	none	right
3D T1	T1 FS PRE LEFT	sag	yes	2	none	right
T1	T1 FS DYN	ax	yes	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	1.6	none	top
3D T1	T1 FS DYN	ax	yes	1.6	none	top
3D T1	T1 FS DYN	ax	yes	1.6	none	top
3D T1	T1 FS DYN	ax	yes	1.6	none	top
3D T1	T1 FS DYN	ax	yes	1.6	none	top
3D T1	T1 FS POST RIGHT	sag	yes	2	none	right
3D T1	T1 FS POST LEFT	sag	yes	2	none	right

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