

MRI Implant Integrity

Updated 6/6/2026

Reviewed 06/06/26

Indications: implant rupture, implant deformity, assess implant deformity.

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

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

IV contrast is not given for this protocol.

Pulse Sequence	PACS Name	plane	fat sat	slice (mm)	first slice
STIR	STIR AX BILAT	ax	no	4	top
T1	T1 AX BILAT	ax	no	5	top
STIR	STIR RIGHT	sag	no	4	left
T1	T1 RIGHT	sag	no	5	left
STIR	STIR LEFT	sag	no	4	left
T1	T1 LEFT	sag	no	5	left

DO NOT USE THE BELOW PROTOCOL UNTIL IT IS FINALIZED

MRI Implant Integrity

Updated 1/15/2026

Reviewed 01/15/26

Indications: implant rupture, implant deformity, assess implant deformity.

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

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

IV contrast is not given for this protocol.

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 BILAT	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

If a patient has silicone implants the only sequences a technologist would have to manual prescan would be the STIR silicone (water sat) sequences and the T1 fat sat sequences. All a technologist has to do is center on the fat peak for the STIR silicone (water sat) sequences and center on the water peak for the T1 fat sat sequences. Once a technologist manual prescans they will see 3 peaks. The tallest peak and the peak farthest to the right will be the silicone peak. They need to start on the silicone peak and move Delta Frequency 90 to the right to center on fat and move Delta Frequency 310 to the right to center on water. This applies to GE scanners. I think on Siemens the 3 peaks are backwards so not sure if the Delta Frequency would need to go to the left?