

MRI Breast Biopsy

Updated 05/17/25

Reviewed 05/14/25

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

Use MRI Breast Core Biopsy Right and Breast Core Biopsy Left charges.

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

| Pulse Sequence | PACS Name | plane | fat sat | slice (mm) | gap (mm) | first slice |
|----------------|---------------|-------|---------|------------|----------|-------------|
| 3D T1 | T1 FS PRE SAG | sag | yes | 2 | none | right |
| T1 | T1 FS PRE AX | ax | yes | 1.6 | none | top |

Only side of biopsy.

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 1 MIN AX | ax | yes | 1.6 | none | top |
| 3D T1 | T1 FS 2 MINS AX | ax | yes | 1.6 | none | top |

Send axial subtractions of both post contrast sequences to PACS.

Target the lesion to biopsy.

Place needle guide and obturator.

| | | | | | | |
|-------|-----------------|----|-----|-----|------|-----|
| 3D T1 | T1 FS OBTURATOR | ax | yes | 1.6 | none | top |
|-------|-----------------|----|-----|-----|------|-----|

Perform biopsy and place biopsy clip.

| | | | | | | |
|-------|------------|----|-----|-----|------|-----|
| 3D T1 | T1 FS CLIP | ax | yes | 1.6 | none | top |
|-------|------------|----|-----|-----|------|-----|

To mammography for post clip placement imaging.