

This instruction is intended for our patients who are in a care relationship

The Wellbeing Services County of South West Finland

Turku University Hospital

MRI Guided vacuum-assisted breast biopsy

Patient instructions

The study examines changes found in the breast.

How to prepare for the procedure?

- Please bring a sturdy and snug bra that covers the entire chest.
- 2-3 days before the biopsy, you should stop taking blood thinning medications, if possible, depending on the underlying disease (e.g. valve prosthesis). In these cases, the matter must be discussed with the attending physician.
- Omega-3 containing supplements should be discontinued for at least 2 weeks (or as long as possible) before the procedure.
- Please contact the outpatient clinic if you are hypersensitive to anaesthetics.
- Jewellery and all body piercings must be removed, and it is best to leave them at home.
- You can eat and drink normally and take your regular medications.

How is the procedure carried out?

The scan is done in a well-lit and air-conditioned MRI scanner, which is open at both ends. During the MRI scanning, you will have an alarm button and a two-way intercom to communicate with the staff.

In order to have a successful scan you must keep absolutely still. The examination position is designed to be as comfortable as possible. The position is like in an MRI scan of the breast- you will be lying face-down during the scan.

The MRI device can be quite loud during scanning; therefore you will have headphones and/or earplugs during the scan. It is possible to listen to music during most scans.

The biopsy will be done by a Radiologist, assisted by the Radiographers. The progress of the procedure will be monitored with fast MRI image series throughout the procedure. During the scan you may be given an injection of intravenous MRI contrast agent that does not contain

Iodine. Before the scan you will get an intravenous canula for this purpose. The contrast media will be eliminated from your body through the kidneys and urine.

The biopsy point is always anesthetized before the biopsy. A small skin puncture is made at the injection site. The samples are taken with the breasts under slight compression.

What about after the procedure?

After taking the biopsy, the injection site is pressed with a cold pack for at least 10 minutes, to prevent bleeding. After the procedure the breast may feel tender, and you might develop a bruise.

The attending physician will give you case-specific aftercare instructions.

The referring unit will take care of reporting the results of the procedure. The biopsy results take about 1 week to complete.

Other considerations

Depending on the specific procedure, the overall time required will be 1-3 hours. The MRI unit also scans emergency patients, which can lead to changes in the schedule. Please allow plenty of time for your procedure.

The MRI study has no known side effects. However, certain things require attention when planning the scan. Please inform the MRI unit if you have a pacemaker, inner ear prosthesis, medication pump, surgical clips, metallic shards or fragments in your body.

Contraceptive coils and sterilization clips are generally not an obstacle to the MRI scan. Glucose measuring sensors must be removed before the scan. Please mention to your nurse if you are wearing any medication patches.

Please fill in the enclosed information form and bring it with you to the scan.

MRI Procedure Prerequisite Form

Name: _____ ID Number/DOB: _____

Height (cm): _____ Weight (kg): _____

Yes **No**

Have you had any surgical operations?

If yes, please specify _____

Do you have any of the following in your body?

Yes **No**

Cardiac pacemaker or cables

Artificial heart valves

Nerve stimulator and/or associated cables

Middle ear prosthesis or inner ear implants

Shunts

Stents/coils/aneurysm clips

Metal fragments (e.g. from welding, fragmentation weapons)

Infusion port and/or medication pumps

Artificial joints / orthopaedic screws

Hearing aids or dental prostheses

Tattoos / body piercings

Glucose measuring sensors / medication patches

Do you have any allergies to contrast or anaesthetics?

Do you have reduced kidney function?

Are you pregnant?

Have you been sterilized?
