

## **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
<b>Have you had any surgical operations?</b>	_____	_____
If yes, please specify:		
_____		

<b>Do you have any of the following in your body?</b>	YES	NO
Cardiac pacemaker or cables	_____	_____
Artificial heart valves	_____	_____
Nerve stimulator and/or associated cables	_____	_____
Middle ear prosthesis or inner ear implants	_____	_____
Hearing aids	_____	_____
Shunts	_____	_____
Stents/coils/aneurysm clips	_____	_____
Metal fragments (e.g. from welding, fragmentation weapons)	_____	_____
Infusion port	_____	_____
Medication pumps	_____	_____
Artificial joints / orthopaedic screws	_____	_____
Dental prostheses	_____	_____
Tattoos / body piercings	_____	_____
Do you have any allergies to contrast or anaesthetics?	_____	_____
Do you have reduced kidney function?	_____	_____
Are you pregnant?	_____	_____
Have you been sterilized?	_____	_____