

# Magnetic Resonance Imaging (MRI)

**Open MRI for Extremity Imaging** 

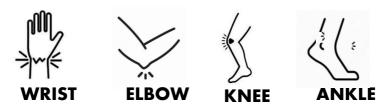


#### What is MRI?

**Magnetic Resonance Imaging (MRI)** is a medical diagnostic technique which uses a strong magnetic field and radiofrequency waves to produce diagnostic images. This technique provides very clear and detailed images of internal organs and tissues. MRI is a relatively safe, non- invasive and painless form of imaging.

## What is an open MRI?

Open (or "open bore") MRI is a low magnetic field MRI scanner which produces low resolution scan images. It is designed specifically for MRI extremity examinations, focusing on the knee, ankle, elbow, and wrist.



Unlike full magnetic field MRI scanners, it is less enclosed with an open-bore design. It improves patient comfort and eliminates claustrophobia.

#### Who is suitable for an open MRI scan?

Depending on clinical indications, the open MRI system is suitable for most adult patients who require MRI on extremity regions such as the knee, ankle, elbow, and wrist, and are claustrophobic and/or had previously failed an MRI procedure in a full field closed-bore scanner.

## How to prepare for an open MRI scan?

Wear comfortable clothing without metal zippers, hooks, buttons, or buckles. Avoid skirts, dresses, or tight-fitting clothes.

#### What are the risks?

Undetected metal implants may be affected by the strong magnetic field, thus, please declare them before the start of the procedure.

Depending on the initial results from the open MRI scan, you may be required to undergo full-field MRI imaging on a separate occasion.

## What to expect during the procedure?



Fill in the MRI safety screening form and declare all implants. Please inform the radiographer if you are pregnant, have metal implants or pacemaker.



Remove all metallic objects including electronic devices, jewellery, and credit cards before entering scan room as the force of the magnetic field can attract such magnetic objects and/or erase and alter the information in them. Lockers are provided for storage of your belongings.



A radiographer will position you appropriately on an ergonomic cushioned couch. For optimal imaging, it is important that you remain still and breathe normally throughout the scan.



Depending on the nature of the scan, the procedure, including preparation, will take between 45 to 60 minutes. Your entire visit may take approximately one to two hours at the imaging centre.

## After the procedure

You may resume normal activity after the procedure. Your doctor will advise you on the results at your next appointment.

#### Where to find us?

### **NUH Diagnostic Imaging @ Galaxis**

1 Fusionopolis Place, Galaxis, #02-02, Singapore 138522

#### **Opening Hours**

Monday - Friday: 8.30am to 6.00pm

Saturday, Sunday & Public Holidays: Closed



## How to get there?

Nearest MRT Station: One-North (CC23)

By Car: Take Exit 8 to North Buona Vista Road.

Turn right to Portsdown Road, then turn right to Fusionopolis Place.

Turn into Galaxis Carpark (Basement 1 and 2).

Proceed to the escalator lobby, look out for entrance to Galaxis and

proceed to level 2.

## **Contact us**

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The information in this brochure is meant for educational purposes and should not be used as a substitute for medical diagnosis or treatment. Please seek your doctor's advice before starting any treatment, or if you have any questions related to your health, physical fitness or medical condition.

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