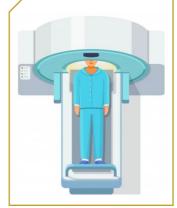


جامعة الإمام عبدالرحمن بن فيصل IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

مستشفى الملك فهد الجامعي King Fahad Hospital The University

Magnetic Resonance Imaging

MRI



What is magnetic resonance?

it is an imaging test to obtain accurate and detailed images of all parts and tissues of the body.

In general, the resonance takes longer time than the other tests and takes between 25-45 minutes. It may reach up to an hour depending on the quality of the required image, the number of clips, and use of pigment injection or not.



What is the contrast material?

It is a clear chemical substance that is injected intravenously for use in a resonance examination to diagnosis many diseases.



Rate of allergy because of used contrast material is very low.

I am afraid of the magnetic resonance device, what is the solution?

- Trail and training
- Bring a friend or relative with you



 Psychological preparation and avoidance of thinking about the device



Wearing eye cover



• Use of an open magnetic resonance device



• General anesthesia



what are the benefits of magnetic resonance?

1. It gives an accurate diagnosis of many diseases that affect the body, especially diseases of the heart, brain, spinal cord, joints and abdomen pelvic.

2. It gives a wide scope for the development and spread of diseases in the body, especially cancer diseases, muscle deformities and bone diseases

3. It does not cause pain and it is an excellent alternative to vascular imaging for patients who are allergic to the contrast material used in CT and angiography.



4. Safe for pregnant women and children and does not cause any harm to them if requested by the attending physician.

Could a pregnant woman do an MRI?

It is not recommended, except in a specific indications after discussion with treating physician and without use of contrast.



Consent of the patient, attending physician and the radiologist is compulsory for the procedure.

What are the preparations for this type of radiological examination?

- 1. Avoid motion during the scan.
- 2. Refrain yourself from eating and drinking for 4 hours before the procedures for abdomen imaging (liver, pancreas, or gallbladder)



- 3. Inform your doctor if you suffer from any type of allergy.
- Keep all metals objects as the mobile phone, magnetic cards out of examination room
- 5. Tell your doctor if you have claustrophobia.

What are the preparations for this type of radiological examination?

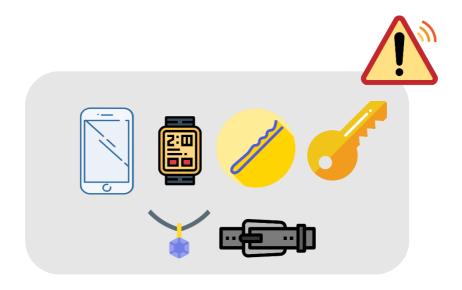
- Inform your doctor if you have metal object planted inside your body like cardiac stent, artificial limbs ,etc.,,,
- 7. Some cases require intravenous injection with colored contrast material for better assessment.





Do metal objects affect MRI images?

Sure, and must be kept out the examination room. Metal objects include keys, watches, and hairpins.



Some medical metal objects that do not affect the image are allowed after consulting the radiologist.

References:

Illustration pictures are taken from

https://www.freepik.com/

Reviewed by:

Radiologists of KFHU.



Health Awareness Unit

IAU-20-53



