

MAGNETIC RESONANCE IMAGING

Dear Sir/Madam,

Magnetic resonance imaging is an examination by the **most precise imaging method**, which can provide a perfect image of possible changes caused by a disease in the examined organ of your body, and helps your attending physician choose the most efficient treatment.

Pre-Examination Preparation

Imaging is carried out in a strong magnetic field, is painless and requires no preparation by adults and older children.

The only exception is the intestine imaging (MR enterography, colonography) which requires a complete evacuation of the intestine contents before the examination.

Please, come for the examination wearing no make-up, without any mascara, powder, hair styling gels, etc. After entering the magnetic resonance imaging waiting room, sit down, relax and wait until you are called to enter the changing cabin. In the meantime, you can prepare the answers to the following questions which you will be asked by the attending laboratorian in the cabin before the actual examination. For the purpose of your safety, you should answer the questions truthfully, because a strong magnetic field can damage or dislocate (change the position in the body) all metal objects which had been operatively installed in your body, most probably on purpose by an operation (e.g. metal clips, etc.)

Regularly Asked Questions

- Do you have an implanted electronic cardiac pacemaker (i.e. a device installed operatively under the skin to control the activity of the heart)?
- Have you had an artificial joint or a bone fracture operated on?
- Do you have an artificial heart valve in your heart?
- Do you have an operatively installed insulin pump in your body? A blood-vessel support (a stent)? A venous filter? Metal embolisation material (an occluder)?
- Have you had anything operated on (e.g. a heart by-pass with metal clips, an operation of the brain, blood-vessels, an eye, kidneys, a bone fracture)?
- Are you aware of any metal object you may have anywhere in your body (a needle, wire, a splint, a metal splinter)?
- Have you ever been injured by a bullet, shrapnel, small shots, grenade splinters?
- Do you have an eye replacement?
- Have you recently been treated for a kidney disease?
- Do you have a hearing aid (cochlear) in your ear?
- Do you have an implanted caval filter (a filter into the inferior vena cava)?
- Do you have artificial tattooing on your body?
- Do you have a dental replacement from metal?
- Do you have any other replacement in your body?
- Do you have a metal splinter in your eye?
- Have you worked as a metal worker?
- Do you have piercing (metal decorations) rings in your body?
- Are you allergic to any substances, objects or foodstuffs?
- Have you ever been checked by magnetic resonance imaging?

Special Questions for Women

- Do you have an implanted intrauterine device (intrauterine contraception)?
- Are you pregnant? If yes, for how many weeks?

Examination Procedure

After entering the preparation cabin, you will be asked to take off your upper clothes to eliminate the presence of any metal object in the magnetic field. You will be asked to remove your bra, wig, hairpins, hairclips, hair needles, pins, clips, etc., all metal money and coins, credit cards, purses/wallets, glasses, rings and jewels. If you are wearing make-up, you will be asked to remove your make-up. An empire coat will be provided to you upon request.

Before the actual examination, you will be asked to sign an application form to confirm that you have been asked about the above mentioned facts. If you do not conform to the above mentioned preparation, your access to the examination will be denied.

After conforming to the above mentioned conditions, you will be led to the examination room with the active magnetic field. The laboratorian will help you lie down comfortably, mostly on your back (or on your stomach during the examination of breasts, rectum, and some joints), on the prepared extending examination table, and the part of your body to be examined will be placed either into a circular coil (the head, the neck, limbs) or on a flat coil (the spine, other examined body districts). You will be asked to lie still during the whole examination lasting for 30 - 45 minutes, to breathe regularly, not to blow your nose, not to swallow, and not to scratch yourself. The examination will be accompanied by great noise which is caused by the machine parts.

