

MEP (magnetic stimulation) and preparations

MEP (motor evoked potential) with magnetic stimulation is used to study the function of motor pathways. Stimulating the motor cortex of the brain and the motor pathway in the neck and back with a magnetic field creates movement in the hands and legs that allows evaluating the condition of the motor pathways. The stimulation is performed on the skin.

The examination will take 1.5 to 2 hours.

Before the examination

You may eat and drink as usual.

Do not apply any lotion on your skin.

During the examination

You will lie on a bed during this examination. A doctor or a nurse will attach adhesive electrodes on your hands and feet. Then, a magnetic coil is used to stimulate areas on your head, neck and back by keeping the coil near the stimulated area. Stimulating the head will feel like a tap, but otherwise the examination is painless.

This examination has no after-effects.

After the examination

You will receive the results of the examination from the doctor who treats you. If you do not know how to find out the results, please contact the outpatient clinic or ward that referred you to this examination.

Other things to note

The examination cannot be performed if:

- You have an electronic stimulator in your body, for example a cardiac pacemaker, a pain stimulator, or a middle ear implant
- You are pregnant.

Contact the Clinical Neurophysiology Unit (KNF) if you have:

- Metal in your head, neck, shoulder, chest, or hip
- Artificial heart valve

Dental fillings, braces or implants do not prevent the examination.

Please take your Kela-card or identification with you.

You will not be charged for the examination separately.

Cancel the appointment if you cannot come. If you do not cancel, you will be charged a fine.



Patient Instruction

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HUS Medical Imaging Center
Clinical Neurophysiology

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