

## **Magnetic stimulation**

**(Motor evoked potentials, MEP)**

### **Purpose of the Examination**

The purpose of the examination is to study the functionality of your motor pathways.

### **Preparing for the Examination**

The examination does not require any special preparations. You can take any regularly taken medicine as you normally would. You can also eat normally before the examination.

### **Examination Process**

You cannot undergo the examination if you have a pacemaker installed in your heart, or metallic objects inside your skull. Amalgam fillings or dental braces do not prevent performing the examination. Please inform the technician at the beginning of the study if you are pregnant, or if you have been diagnosed with epilepsy.

Measurement labels are attached on the outer part of your arm when examining your upper limbs. The labels are attached on your shin when examining your lower limbs. You will sit on a chair during the examination. A magnetic coil will activate your cortex from outside your head, as well as the nerve roots in your neck and your sacrum. The muscle contraction caused by the activation is measured by labels placed on surface of your skin. The brief contraction of muscles might feel unpleasant.

The examination lasts for about an hour. You may experience brief and mild sensations after the examination, but there are no other consequences.

### **After the Examination**

The clinical neurophysiologist will analyse the examination and write a report about it. The report is directed to the clinic/ward that ordered the examination. They will inform you of the examination results and any possible follow-ups.