General

MRI stands for ‘Magnetic Resonance Imaging’. This method allows us to take images of the inside of the human body. By using a strong magnetic field and radio waves radio signals are generated in the body. These signals are picked up by an antenna and with the help of a computer pictures of cross-sections of the human body can be produced. At the Donders Institute mainly a variation of this technique called fMRI (f = functional) is used. With fMRI it is possible to see both the structure and the activity of the brain. An fMRI experiment usually lasts one to two hours.

Preparation

Metal objects are attracted to the magnet and/or disturb the measurement. Also there is a slight chance metal can warm-up. Therefore please take into account the following:
- The clothing on your upper body may not contain any metal (e.g. zips, buttons, hooks, braces). This also applies to bras containing a metal brace wire.
- Jewellery, piercings, hairpins, glasses, etc with metal parts must be removed. Please do not use mascara as this sometimes contains metal fragments.
- Coins, keys, cigarette lighters, cell phones, penknives, cufflinks etc must be removed and can be stored in a locker. The same goes for bank cards, credit cards and chipcards. Otherwise the strong magnetic field will erase the information stored on the magnetic strip.

The experiment

After the researcher has informed you about the experiment you will enter the shielded magnet room and lie down on the movable table. Please relax and lie as comfortably as possible. During the experiment the scanner will make a lot of knocking sounds and noises of varying volumes. Ear protection is a must. Hence you will be given headphones or earplugs to reduce the noise. A frame (= the antenna) is placed over your head. It is important to lie as still as possible during the scanning. Hence your head is fixated with small cushions. Before the researcher moves you inside the scanner you will be given a rubber ball to hold in your hand. If you squeeze the ball during the experiment this will sound an alarm which tells the researcher to stop the experiment. During the scan the door to the MRI room is shut, but not locked.

An experiment consists of several scans. The shortest lasts for 10 seconds and the longest about forty minutes. In total a scan session lasts one to two hours. Via the intercom the researcher keep you informed about the progress of the experiment. not be locked. The researcher can see you via a video camera and you can communicate via an intercom. Sometimes the experiment will be video and/or -audio recorded for strict scientific purposes. The experimenter will inform you about this in timely fashion prior to the experiment.

Additional information

The risk associated with participation can be considered as negligible. No invasive procedures are involved. You can NOT participate in a MRI-experiment if one of the following applies:

- Metal parts, that cannot be removed, are present in or on your upper body, e.g. plates, screws, aneurysm clips, metal splinters, piercings or medical plasters.
- Dental fillings, crowns, a metal wire behind the teeth, tattoos and contraceptive coils are allowed. The researcher will additionally inform you.
- Clothing on the upper body containing any metal e.g. zips, buttons, hooks, braces, metal yarn (LUREX). This also applies to bras containing a metal brace wire.
- You have an active implant, a pacemaker, insulin pump, neurostimulator and/or ossicle prosthesis.
If one of the below issues is applicable, please contact the researcher prior to the experiment

- You have a history of brain surgery.
- You suffer from epilepsy.
- You suffer from claustrophobia.
- You are pregnant or you think you are.
- You are younger than 18 years of age.
**SCREENING FORM MRI**

Version 1.4

To be filled out prior to the start of the experiment

Please answer the following questions first

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you have any metal objects in your <strong>upper</strong> body?</td>
<td></td>
<td></td>
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<tr>
<td>* Exception: dental fillings or crowns.</td>
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<tr>
<td>Do you have metal fragments in your body, in particular in the eye, e.g.,</td>
<td></td>
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<td>caused by injuries when working with metal?</td>
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<tr>
<td>Do you wear jewelry / piercings that you cannot take off?</td>
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<tr>
<td>Have you had brain surgery?</td>
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<tr>
<td>Do you have an active implant?</td>
<td></td>
<td></td>
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<tr>
<td><em>(e.g. pacemaker, neurostimulator, insulin pump, ossicle prosthesis)</em></td>
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<tr>
<td>Are you using a medical plaster that cannot or may not be taken off?</td>
<td></td>
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<tr>
<td><em>(e.g. nicotineplaster)</em></td>
<td></td>
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<tr>
<td>Do you suffer from epilepsy?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do you suffer from claustrophobia?</td>
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<tr>
<td>Are you pregnant or think you are?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are you younger than 18 years?</td>
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</tr>
</tbody>
</table>

If answered **YES** to one of the above questions you **CANNOT** participate in the experiment.

Do you have a metal wire behind your teeth and/or a tattoo?  

If answered **YES**: The researcher needs to inform you about the risks.

Name: ________________________________  Weight: …………. kg.

Date of birth: (dd/mm/yyyy)  Length: …………..cm.

Name home physician: ________________________________

Address:

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Note: Only in case of no (Dutch) home physician please check the information of the Academic General Practitioner Heyendaal: [www.ugc-heyendaal.nl](http://www.ugc-heyendaal.nl) (see also available information brochure):

I agree to be informed by the Academic GP in case of a clinically relevant finding **YES***

*encircle

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*This form is applicable for research in healthy, competent adults (>18 year). The subject involved needs to provide his or her written consent personally. The questions above only apply for performing an (f)MRI in the head/neck area.*

P.T.O

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