

MRI Explanation/Procedures:

An MRI (or magnetic resonance imaging) scan is an imaging technique that uses magnetism, radio waves, and a computer to produce images of body structures. The MRI scanner is a tube surrounded by a giant circular magnet. You will be asked to lie still on a moveable bed that is inserted into a small tunnel inside the magnet. You will also be asked to change into scrubs before the scan. We will help keep you still with a blanket wrapped around your body. You will be asked to conduct certain activities or to listen to certain instructions/music and the MRI scan will produce the resulting images. The images produced by the MRI are detailed and can detect changes of structures within the body. The researchers running the scanner will be able to see you during the scan. You can talk to them through an intercom. You can ask for a break or to stop at any time. Sometimes people get worried about being in the scanner. If this occurs, you can ask to be taken out of the scanner and the study will be stopped.

[If the Principal Investigator intends to collect physiological data during the scan, then the following sentences should be included:]

Heart rate will be collected using an oximeter on the finger. Respiration will be collected with a belt across the chest.

[If the Principal Investigator intends to collect simultaneous fMRI/EEG data, then the following sentences should be included:]

You will also be asked to wear an EEG cap during the MRI scan. There are non-allergenic coils inside the cap that measure your brain's activity at the same time as the MRI scan is done. The cap is cleaned after each use. Sometimes paste is used to help the electrodes stay in place, and this paste is easily washed off afterwards.

MRI Exclusion/Inclusion Criteria:

It may not be safe for you to have an MRI scan if you have certain metals in your body or have certain medical conditions. If you have any of the following, you may be excluded from this study for your own safety: Cardiac pacemaker; hearing aid; any other implant metal in your body or eyes, including pins, screws, shrapnel, plates, braces on your teeth, or dentures; Parkinson's, Alzheimer's, or other dementia; sickle cell anemia; epilepsy; bipolar disorder; multiple sclerosis; or brain surgery. You will complete an MRI screening form that will be used to make sure it is safe for you to have an MRI. This form will be reviewed by the MRI technologist and they may ask you questions about some of your answers. You will not be allowed to receive an MRI if the technologist believes it is not safe for you to do so.

You may experience nausea if you have certain conditions such as migraines, vertigo, anxiety, stress, fatigue, pregnancy, food poisoning, digestive disorders, fibromyalgia, concussion, brain injury, appendicitis, kidney or liver disorders, central nervous system disorders, brain tumors, some forms of cancer, or other illnesses. If you are currently experiencing nausea for any reason, you should not have an MRI scan until your nausea has subsided.

If you have tattoos, you could experience some irritation and redness at those sites. Tattoos on the head, such as eye liner or other permanent makeup, may make it difficult to get clear and

usable images. If you have tattoos or permanent makeup of any type, you should inform us immediately.

[Researchers should also state any other exclusionary and inclusion criteria in this section.]

Risks or Discomforts:

This MRI is done for research purposes only. The MRI scan being done is designed to answer research questions, not to medically examine your brain. The MRI scan is not a substitute for one a physician would order. It may not show problems that would be picked up by a medical MRI scan. None of the researchers are medically qualified radiologists. However, if we see something unusual in your scan, your scan may be referred to a radiologist. You may be informed by the research group if follow up with your physician is suggested. Any follow-up evaluation or treatment that you seek will be at your own expense. You may be unnecessarily worried if a problem is suspected, even if your physician rules out any problems.

Your MRI pictures are for research only and are not meant to evaluate your health (as they would be if they were part of a clinical, non-research visit to the doctor or hospital).

[If the Principal Investigator intends to provide copies of the images to the participant, then the following sentence should be included:]

However, you will be provided with a copy of the MRI pictures at no cost to you to keep and review as you see fit.

The following risks or discomforts may occur because of your participation in this study. The energy levels used to make MRI measurements are far less than those used in a single X-ray. MRI is painless and there are no significant risks from MRI as it is to be performed but participation may mean some added discomfort for you. You may be bothered by the beeping and hammering sounds made by the scanner as it collects measurements. Ear protection will be provided to diminish the noise. The magnet is a small enclosure. Despite the use of an “open” head-coil, some people become claustrophobic inside it. You may also experience mild numbness or tingling in your fingers and toes. This feeling is like the feeling you get when your arm has fallen “asleep” – not the painful “needling” feeling, but the numb tingling you feel afterward. The room may be cold. You may ask for a blanket. You may become tired or bored from lying in the scanner. Some people feel nervous or claustrophobic while lying in the scanner. Again, you are free to quit the experiment at any time.

[If women of childbearing potential will be enrolled, and if there are no other known risks to them or their possible fetuses, the following statement is required:] Women of childbearing potential who are considering being in this study should especially note that the risks to fetuses of exposure to MRI are unknown.

Storing and Sharing and Future Use of Your Information:

[This section should be included if the Principal Investigator intends to submit study data to the CABI MRI Data Repository.]

After the study is over, we may want to share the data and information collected with other researchers who were not involved with this study. That information will be shared without revealing your identity. The data may be provided upon request or placed in a secure repository for general access by other researchers. We will not share any identifying information such as your name or contact information. This allows other researchers not involved in the study to learn from our work without having to do the study again. For these reasons, we will not destroy study data and information when the study ends. We will not keep the identifying data linking your name or contact information to data after the study is closed. We will store and share the information without using your identity.