

# Center for Brain Science Neuroimaging Participant Screening

Although MR research is safe for most participants, there are certain subjects that MRI may pose unnecessary risk. Most contraindications that would rule out a subject involve metallic implants and foreign bodies. However, there are several other concerns of which investigators should be aware.

## **Screening and Consent Forms:**

In addition to pre-screening participants thoroughly before scheduling them for an MRI, everyone must fill out and sign all appropriate consent and screening forms prior to entering the magnet room. In the rare case with a person accompanying the patient in the magnet room, the visitor must fill out and sign a screening form prior to entering the room.

**\*\*\*NOTE\*\*\* If a participant answers YES to any screening question involving metal injuries, implants and major surgeries, it MUST be cleared with Tammy Moran. If an investigator is not able to reach Tammy for clearance, they MUST NOT SCAN.**

The following criteria is policy for conducting research at CBSN. Other institutions may have different criteria.

## **Contraindications: DO NOT SCAN**

- Cardiac pacemaker
- Aneurysm clips
- Neurostimulator
- Prosthetic heart valve
- Implanted pumps
- Metal fragments in body or eyes
- Injury to eyes involving metal
- Metal work (i.e. Grinding, welding) without eye protection
- Pregnancy
- Skin patches such as Contraceptive and Nicotine (rule out if subject cannot remove patch; foil WILL heat up)
- Cochlear implants
- Permanent Eyeliner
- Weight larger than 400lbs (also consider shoulder and chest size)

## **Conditions that Might Rule Out a Participant: MUST CLEAR WITH TAMMY**

- Metal rods, plates or screws
- Artificial joints
- Previous major surgery
- IUD (Stainless Steel)
- Braces (causes severe frontal artifact; rule out for EPI)
- Hearing aid (should be removed before scanning)
- Dentures (should be removed before scanning)
- Hair extensions (most are connected with wire or metal crimp, causes severe artifact)
- Tattoos (ink can contain metal) – Although most tattoos are safe, some can contain metallic based ink. You MUST inform subject of risk of heating and ask them to inform you immediately if they feel discomfort.

## **Other Considerations:**

- Claustrophobia
- Physical discomfort (body size, back or neck pain, etc.)
- Movement disorders (ticks, restless legs, etc., that may cause movement artifact)
- Vision / Hearing problems
- Problems using response devices

**\*\*\*NOTE\*\*\* If ANY question exists regarding a participant's MR eligibility you MUST contact Tammy Moran or the participant MUST NOT BE SCANNED.**