

## **Subject Screening**

Although MR research is safe for most volunteers, 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.

**\*\*\*NOTE\*\*\*** If **ANY** question exists regarding a subject's MR compatibility you **MUST** contact Terry Sackett or the subject **MUST NOT BE SCANNED!**

### **Screening and consent forms:**

In addition to screening subjects 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 of a person accompanying the subject in the magnet room, the visitor must fill out and sign a screening form prior to entering the scan room.

### **Contraindications:**

- ⇒ Cardiac pacemaker
- ⇒ Surgical aneurysm clips
- ⇒ Neurostimulator
- ⇒ Implanted pumps
- ⇒ Metal fragments in the body or eyes
- ⇒ Injury to eyes involving metal
- ⇒ Pregnancy
- ⇒ Skin patches such as contraceptive and nicotine (rule out if subject can not remove patch; foil WILL heat up)
- ⇒ Colored contact lenses should not be worn in scanner (there can be metal in the coloring)
- ⇒ Certain cochlear or inner ear implants
- ⇒ Permanent eyeliner
- ⇒ Hair or skin products with iron oxide or glitter
- ⇒ Weight over 550 lbs, also consider body habitus

## **Conditions that might rule out a subject:**

- ⇒ Metal rods, plates or screws in body or mouth
- ⇒ Previous surgery (if metal left in body)
- ⇒ Hearing aid (remove before scanning)
- ⇒ Dentures (remove before scanning)
- ⇒ Prosthetic heart valve
- ⇒ Braces (causes severe artifact)
- ⇒ Hair extensions (most are connected with wire, causes severe artifact)
- ⇒ Tattoos (ink can contain metal)

## **Other considerations:**

- ⇒ Claustrophobia
- ⇒ Physical discomfort (body habitus, back or neck pain)
- ⇒ Movement disorders (ticks, restless legs, etc.)
- ⇒ Vision/hearing problems
- ⇒ Problems using response devices

**\*\*\*\*\*NOTE\*\*\*\*\*** If you have any doubts whether a subject is MRI compatible, **DO NOT SCAN!** Contact Terry Sackett for clearance.