

MRI SCREENING GUIDELINES

The following are contraindicated:

Cardiac pacemaker
Internal pacemaker wires
Implanted cardioverter defibrillator (ICD)
Intracranial clip (i.e. aneurysm clip)*
Aortic/carotid clip
Cardiovascular catheters
Swan-Gantz catheter or thermodilution catheter
Neurostimulator-TENS unit
Internal Hearing Aid
Sophy adjustable and programmable pressure values
Metal slivers in the eye
Harrington rod - placed prior to 1960 (heat severely)
Tissue extenders

*Patients of Dr. Neil Martin, Neurosurgeon, may now have MRI compatible clips check prior to scheduling

The following may be indicated please consult with the MRI Technologist prior to scheduling:

Biostimulator or bone growth stimulator
Deep brain stimulator/DBS-must be turned off prior to imaging
Foreign bodies (shrapnel, bullet, BB)
Insulin pump or other drug infusion pump - Medtronic -must be turned off prior to imaging
Magnetically activated implants and devices
Neurostimulator-Freehand system
Otologic implants (Cochlear implants, stapes prostheses, incus replacement)
Penile implants
Pregnancy – see precautions
Vagal nerve stimulator-must be turned off prior to imaging

The following may heat up, due to metallic components, therefore we must screen for them:

Nitroglycerin trans-dermal patch
Tattooed eyeliner, eyebrows, body tattoos*

*Patients must be alerted to the possibility of localized “**swelling or blistering**” of the skin.

MRI procedure during the post-op period:

In general, if the metallic object is a “**passive implant**” (i.e., there is no power associated with the operation of the object) and made from non-ferromagnetic material the patient may undergo an MRI procedure using an MR system operating at 1.5T or less **immediately** after surgery.

For implants that are “**weakly**” magnetic, it is typically necessary to **wait six to eight weeks** before performing an MR procedure. In this case, “retentive” or counter forces provided by tissue growth, scarring and granulation serve to prevent the object from presenting a risk or hazard to the patient in the MR environment. Therefore, it is unlikely these objects will be moved or dislodged by magnetic field interactions associated with MR systems operating at 1.5T or less.

Intravascular coils, stents, filters
Cardiac occluders
Heart valve prostheses
Chest, abdominal, pelvic clips or sutures

ALL require a 6 - 8 WEEK WAITING PERIOD post surgery

PRECAUTIONS

Patient is pregnant and MRI contrast agent (Omniscan/Gadolinium or Feridex) is requested:

It is recommended that the pregnant patient undergoing a MR examination with contrast material provide informed written consent to document that she understands the risks/benefits of the MR procedure to be performed, and the alternative diagnostic options available to her (if any), and that she wishes to proceed.

Patient is breast feeding MRI contrast agent (Omniscan/Gadolinium or Feridex) is requested:

It is recommended that the patient discontinue breast-feeding for 24 hours with active expression and discarding of breast milk from both breasts during that period.

Reference: Frank G. Shellock, Guide to MR Procedures and Metallic Objects: Update 2005

PREPARATION

Abdominal MRI: NPO (Nothing to Eat or Drink) for 3 hours prior to your examination

Breast MRI: No tissue extenders – contraindicated device

Cardiovascular, peripheral vascular MRI or MRA: Avoid all products containing caffeine.

REQUIRED SEDATION SCREEN

If you or your child is receiving sedation for an MRI, you/your child must be NPO (nothing to eat or drink) prior to the examination. Wear light, comfortable clothing (no metal or zippers) and do not wear jewelry. Please leave your valuables at home.

Adult Patients:

PO sedation:

NPO for 8 hours
Arrive 1 hour prior to your appointment
Bring a driver.

IV Sedation or general anesthesia:

Current history and physical (within 30 days or less)
Anesthesia scheduled
No colds or fevers
NPO for 8 hours.
Must have peripheral IV access - minimum 22 gauge in upper forearm/antecubital fossa (cannot use PICC line).
Arrive 1 hour prior to your appointment
Bring a driver.

Pediatric Patients:

IV Sedation or general anesthesia:

Current history and physical (within 30 days or less)
Anesthesia scheduled.
No colds or fevers
NPO 4 to 8 hours - dependent upon the age of the child (see guidelines)
Must have peripheral IV access - minimum 24 gauge in upper
forarm/antecubital fossa (cannot use PICC line).
Arrive 1 hour prior to your appointment

Pediatric Sedation Guidelines:

Newborn to 5 mos.:	NPO 4 hours prior to sedation (if breast fed) NPO 6 hours prior to sedation (if bottle fed)
6 mos. to 36 mos.:	NPO 6 hours prior to sedation
36 mos. & greater:	NPO 8 hours prior to sedation

No milk or solid foods – ALL age groups.
6 to 8 ozs. of clear liquids allowed up to 2 hours prior to sedation.

WEIGHT LIMITATIONS

Appointments scheduled at 100 Medical Plaza MRI, weight limit = 400 lbs.

Appointments scheduled at 200 Medical Plaza MRI, weight limit = 300 lbs.

Appointments scheduled at Santa Monica Outpatient, Suite 105, weight limit = 400 lbs.