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## Diagnostic Services – Department of Radiology – Diagnostic Division

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**SUBJECT/TITLE:** MRI IMAGING PROTOCOL FOR PATIENTS WITH IMPLANTED NEUROSTIMULATORS.

**PURPOSE:** To define a set protocol to safely image patients with an implanted neurostimulator.

**DEFINITION:** None

**POLICY:** MR Division of the Department of Radiology will develop protocols to image neurostimulators safely with a MRI machine.

**PROCEDURE:**

1. Patients with these devices will only be imaged during 800-1600 Monday - Friday. Patients with these devices will not be imaged on nights and weekends.
2. Must have documentation of device that is implanted.
  - A. Must have documentation in Epic, or patient ID card of implanted device, or medical record from outside hospital.
  - B. Certain devices must be verified by external clinician control device or patient programmer. If so this must be documented in Epic.
3. After it is determined that the device is safe to image device should be checked for broken leads if required.
4. Certain devices must be turned off or set to the MRI safe mode.
5. Prior to having the patient arrive in MRI:
  - A. A procedural consent form must signed by the patient and ordering physician and sent to MRI with the patient explaining the risks to the patient of having a MRI procedure with this device implanted.
  - B. Verifying physician must put a note in Epic stating the leads have been checked and device has been set to the correct setting for the MRI procedure. Clinic must review MRI guidelines for device to ensure appropriate settings have been selected.
  - C. Certain devices require the patient not have body temperature above 38 C or 100 F. This must be documented in Epic.

D. Patients under 88lbs may not be able to have MRI with certain devices.

6. Technologist will verify that proper documentation is completed in Epic and the procedural consent form is completed.
7. Technologist will scan the implanted device per manufactures specifications. Technologist will review MRI guidelines prior to imaging the patient.