

# York MRI Facility

Standard Operating Procedure #80-01

## Decontamination Procedure

### **1. Introduction**

- 1.1. The 3T MRI scanner at the Neuroimaging Laboratory is used primarily for in-vivo studies of human and animal structure and function. These studies include assessment of cognitive function and vascular dynamics, metabolism and physiology in normal and research patient populations. The facility resources are available to peer-reviewed grant funded scientific collaborators with appropriate Review Ethics Board protocols in place, see SOP #20-01 “New Protocols and Ethics Procedures”.
- 1.2. Research involving animals presents unique hazards related to naturally occurring pathogenic organisms which may be transmitted from the animals and infect the people working with and caring for these animals. Similarly, humans may transmit diseases to animals.
- 1.3. The static magnetic field in the 3T MRI facility is always present. It is important that all those entering the facility be aware of the presence of the field, as it cannot be detected in any way, i.e. magnetic fields cannot be felt, seen or smelled. Ferromagnetic objects brought into the magnet room could quickly become dangerous projectiles, and the magnetic field can also interfere with the operation of certain medical implants.

### **2. Preparation for Animal Scans**

- 2.1. The 3T MRI facility should be prepared as follows, before an animal scan begins.
- 2.2. Cover the windows.
- 2.3. Remove all foam, padding, coils and human use devices/equipment from the MRI bed/bore and any surfaces that will be needed during the scan.
- 2.4. Disinfect the MRI bed and bore using Percept:
  - 2.4.1. Spray all surfaces.
  - 2.4.2. Allow a contact time of 5 minutes.
  - 2.4.3. Wipe all surfaces with a clean cloth or paper towel.

### **3. Procedures during the Scan Session**

- 3.1. All appropriate PPE must be worn according to Universal Precautions and Vivaria SOP I-02.
- 3.2. The MRI operator station must remain a “clean” area. Remove PPE and wash hands thoroughly before using the operator console.
- 3.3. Vivaria SOP’s must be followed for cleanup of all spills.

#### **4. Decontamination**

- 4.1. Immediately following the MRI session the 3T MRI facility must be decontaminated following the steps below.
- 4.2. Remove all “dirty” items from the magnet room.
- 4.3. Disinfect the MRI bed and bore using Percept:
  - 4.3.1. Spray all surfaces.
  - 4.3.2. Allow a contact time of 5 minutes.
  - 4.3.3. Wipe all surfaces with a clean cloth or paper towel.
  - 4.3.4. Cloth or paper towel must be discarded as Biohazardous Waste.
- 4.4. Disinfect the floor.
  - 4.4.1. Fill the MR compatible mop bucket with the appropriate water and Percept solution.
  - 4.4.2. Mop the magnet room, hallway and prep room floors.
  - 4.4.3. Allow to air dry.
- 4.5. All dirty PPE is returned to BSB for cleaning, along with any Biohazardous waste.