



MCW MRI Safety Standard Operating Procedures

Infection and Allergy Control

Category: Magnetic Resonance Imaging (MRI) Safety

Procedure #: MR.SOP. 06

Applies to: Investigators, study personnel, Medical College of Wisconsin (MCW) staff

PURPOSE:

The purpose of implementing an infection and allergy control procedures is for the prevention of any infectious material originating from a human or animal research subject from being transferred in any way to another human or animal research subject or an individual participating in the study.

DEFINITIONS:

Materials: Pads, cushions or other objects that are not mechanical in nature but are used with or near the research subject during the MRI procedure.

Research Study Personnel

Study personnel are individuals including a student, staff member or laboratory assistant for whom the PI of the study is responsible, and who are at the MRI scanner site during the study or may be recruiting subjects for the study.

Research Subject

A research subject is a human or animal participant who is placed into the bore of the MRI scanner for research purposes.

PROCEDURES:

- A. All surfaces and materials that have come into contact with a human or animal research subject or any other potential infectious substance must be properly cleaned.
- B. Appropriate cleaning solutions, bleach wipe product or disinfectant solution, gloves and towels are available for use.
- C. The cleaning should be completed before the next MRI study is conducted.
 1. For human subjects:
 - a. surfaces and materials must be cleaned with a disinfectant after each use; BEFORE placing another research subject on the scanning table; including
 1. the scanning table and cushion
 2. coil (s)
 3. positioning pads
 4. the emergency squeeze ball
 5. any other surfaces that have come in contact with the subject
- D. Any spills or bodily fluids must be cleaned thoroughly with a disinfectant solution or bleach.
- E. Linens must be cleaned or replaced BEFORE placing another human subject on the scanning table.

- F. Animal subjects for MRI research studies will be managed according to the policies and procedures of the Biomedical Resource Center (BRC).
- G. NOTE: Proper glove wearing means that the gloves must be removed and disposed of in a proper container, before working on any other equipment: computer, scanner console, etc. This procedure is especially critical if the gloved hands have touched any possible biohazard material, including an animal.
 - 1. For animal subjects:
 - a. surfaces and materials must be cleaned with a disinfectant including:
 - 1. the bite bar
 - 2. the scanner table
 - 3. inside and outside of all RF coils
 - 4. counters and work surfaces that may have been soiled
- H. It is the responsibility of the study team to assist in the cleanup of ALL biological substances (blood, hair, urine, feces, secretions, tissue) from all contact surfaces.
- I. Gloves that are worn during the handling of animal subjects or any potential infectious material must be removed before touching door handles, surfaces, computer keyboards, or any other common areas.
- J. All used linens are to be placed in the appropriate hamper.

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