

University of Minnesota
Center for Magnetic Resonance Research
Policy
Shared Human/Animal Systems

Policy Number / Version: POL010 / Version 1

Approval Date:

Implementation Date:

Author/Owner: Jeramy Kulesa

Approval Signatures	Date
Author/Owner:	
Regulatory Compliance Coordinator:	
Center Director:	

1. Purpose

This policy is in place to allow the safe use of specialized imaging equipment located within the Center for Magnetic Resonance Research and Center for Clinical Imaging Research for both human and animal populations. In order to take full advantage of these unique imaging resources a policy was needed to ensure the safety and security of both the animal and human research subjects both while being scanned and while in transit to and from the scanners.

2. Scope

This policy will apply to all researchers conducting animal research on CMRR systems that are also used for human subjects.

3. Responsibility

It is the responsibility of all personnel who perform the functions listed in Section 2 to adhere to this policy.

It is the responsibility of the owner/author listed above to review the content of this policy for accuracy and continued applicability on at least an annual basis.

4. Policy

Rooms and Equipment Covered

This policy covers all rooms and equipment that may be used by both animal and human research subjects within the Center for Magnetic Resonance Research and Center for Clinical Imaging Research including, but not limited to:

Room 1-411A (3T Magnet)

Room 1-302B (4T Magnet)

Room 1-306B (7T Magnet)

Room 1-316A (9.4T Magnet)

Room 1-147B (10.5T Magnet)

Room 1-141A (7T/AS Magnet)

Room 1-131A (3T Magnet)

Room 1-120L (SPECT camera)

Room 1-120B (PET/CT)

This policy also covers all hallways and corridors leading to and from these dual purpose resources.

Principles

1) Animal Transport Lights

There are a series of amber animal transport lights located at key entry points to shared corridors as well as the control rooms for all systems being used to image human research subjects. These lights are separated into 3 zones and are controlled by switches at the exits to the animal holding facility as well as switches located in all areas within the building where animals may be imaged. This allows those transporting animals from the holding facility to the imaging equipment to activate the amber transport lights while exiting the animal holding facility to alert anyone escorting human research subjects to/from a scanner to delay exiting the scanner control room or to delay entering a corridor that is being used to transport an animal. This system of transport lights ensures that human and animal research subjects do not cross paths in the corridors leading to the imaging equipment. Animal transport is limited to select corridors containing this light system and is forbidden from common areas such the breakrooms, lobbies, or skyways.

2) Training

Everyone wishing to conduct research in the Center for Magnetic Resonance Research or Center for Clinical Imaging Research is required to complete a series of online trainings covering the safety and security of their research population as well building specific safety and security concerns. This training includes the use of the animal transport light system both for those transporting animals and those escorting human research subjects.

3) Site Set-up and Clean-up

Prior to entering an imaging suite staff transporting animal must verify that all untrained staff and human research subjects have vacated the imaging suite. Once inside the imaging suite the table and any other surface of the imaging equipment that may come into contact with the research animal will be wiped down with a hospital grade disinfectant to prevent any potential disease transfer

to the research animals. Once wiped down all surfaces that will come into contact with the research animal are covered by absorbent leak resistant pads to minimize contact between the research animal and the equipment and to contain any potential bodily fluids. Upon the completion of the scan the animal will be transported back to the animal holding facilities using the animal transport lights to ensure the corridors are clear of human research subjects. Any material that came into contact with the research animal will then be bagged and disposed of as biohazardous waste. The imaging equipment will then be wiped down with a hospital grade disinfectant to prevent any potential disease transfer from the research animals to the human research subjects.

5. References

N/A

6. Appendices / Tables

N/A

7. Revision History

Version Number	Approval Date	Change from Previous Version