

Procedures for Decontamination of MRB Shared Spaces

These procedures are in place to control MPV-1, Pinworms, and EDIM currently present in parts of MRB.

Strict adherence to these protocols are REQUIRED in order to continue utilizing MRB shared spaces.

Deviation from this protocol may result in loss of access to animal facilities.

Background

Murine Parvo Virus (MPV-1) and Epizootic Diarrhea of Infant Mice (EDIM) are non-enveloped viruses that are very hardy in the environment. They can be inactivated with Vimoba, but increased contact times are recommended (up to 10min). Pinworm eggs are extremely hardy in the environment and are **not** inactivated with Vimoba. They can remain in the environment for up to months and require mechanical wiping or heat to be inactivated.

Personnel

Personnel should enter non-quarantined rooms first. Personnel handling animals must don the PPE required for the animal room. **Gloved hands** are sprayed with **Vimoba** before and between handling each cage.

Pre-Movement Procedures: **BEFORE** animals are moved out of the quarantined room, the following must be completed:

- Wear required PPE, including double gloves, before entering the quarantined room.
- Spray the entire outside of the cage (all four sides, lid, and bottom) with **Vimoba**. Mechanically wipe the cage with clean paper towels to inactivate any pinworm eggs that may be present.

Transport Procedures

- Remove all PPE following room guidelines. Leave one inner glove layer on one hand for holding the cage.
- Do NOT wear dirty PPE throughout the animal facility. Do NOT use gloved hands to open suite doors.

Animal Work Procedures

- Personnel must wear required PPE in handling animals. This can be redonned in the shared space after transport.
- Spray the work surface of the hood, equipment, and instruments to be used. A 10-minute contact time is recommended before use.
- Spray the entire outside of the cage (all four sides, lid, and bottom) with **Vimoba** and spray gloved hands before handling mice. Open the cage using microisolator technique.
- Conduct your procedures.
- **Keep the cage closed in between mice whenever possible.** Ideally, have one person handling the animals while another person handles computer keyboards, imaging device buttons, anesthesia machine knobs, etc. to minimize cross-contamination of difficult-to-disinfect surfaces.
- Discard all used PPE and disposables (syringes, tubes, etc.) before exiting shared space.

- Spray with **Vimoba** and wipe down all work surfaces and all equipment handled, including anesthesia machine, imaging equipment, etc. Make sure to spray all wheels of the anesthesia machine thoroughly if used. Make sure to use mechanical wiping with **clean** paper towels to remove pinworm eggs.
- If mice are euthanized, place carcasses inside a biohazard bag and spray with **Vimoba** and wipe the outside of the bag with paper towels wet. Tie the bag and place in an animal carcass freezer.

Animal Return Procedures

- Return the mouse cage to quarantined room following the transport guidance listed above.
- If mice were euthanized, the used cage may be placed on the dirty cage rack.

Decontamination

- **Vimoba** will be provided by MRB staff. Proper microisolation technique using Vimoba must be used to decontaminate the outside of the cage before and after animal work, and must be used on gloves, work surfaces, and all equipment during animal work. Vimoba must be used to decontaminate all surfaces after animal work.
- Anything that the gloved hands have touched (including door handles, door knobs, isoflurane vaporizer) should be decontaminated after the procedure. **Spray with Vimoba and wipe thoroughly anything that could be sprayed with disinfectant.**
- **Steam cleaning should be used as often as possible on all allowable surfaces.**
- For liquid/chemical-sensitive equipment (like computer keyboards), cover with sticky plastic wrap (e.g. Glad Press n Seal®) that is disposed of and replaced between cohorts. Ideally, have one person dedicated to handling the animals while a different person handles keyboards, sensitive electronics, or other equipment, to minimize cross-contamination.

Acknowledgment

I hereby understand the procedures described in this form and will abide by it.

Signature: _____

Name: _____

PI name: _____

Date: _____