

## Guidelines for swine handling at the MR-Centre through examination/treatment/scanning (in rooms utilized for patient care as well)

### In general

- Everybody dealing with research at the MR Center (including research on swine) must pass our safety and hygiene course.
- All swine are generally considered colonized (infected) with MRSA.
- The risk of cross-infection is the same between swine and people as between people. Thus, you must employ the same general hygiene measures.

### Before arriving at the MR-center with your swine

Wrap the anesthetized swine in solid plastic film (blue), which must be completely tied up (with tape). Use two layers of plastic as protection.

Only the ventilation tube and catheters in veins can penetrate the packaging. The lab animal must be visibly clean before it is wrapped up (after an operation, all animal blood and other secretions must be removed).

Protective equipment used at the Exp. Surg. Lab. (Clinical Medicine) is not allowed at the center.

### When entering the scanner room

The swine must remain wrapped in plastic throughout the whole examination. Practice a good transfer technique – and adjust the MR table to the right height.

All mobile furniture and fittings in the scanner room must be moved at least 1 meter away from the animal.

Whenever possible, the coils must be packed in plastic/plastic bags. Non-moveable furniture and fittings must be covered by plastic.

Use a single area to handle the samples from the Lab animal. Plastic and green cloth is used on tabletops. This helps limit the cleaning time afterward.

You are *not* allowed to use the table with the operator console for samples. Bring another table instead.

After placing the animal in the examination room, you may go in and out of the room without protective equipment unless you touch the swine skin.

Gloves *must always* be worn when touching the tube with the intravascular catheter or similar.

### When you scan

Hand disinfection must always be carried out when you leave the exam/treatment room just **before** contact with other furniture and fittings, as well as opening cupboards with linen or medical supplies.

If you are forced to break the plastic film wrapping, the requirements for protective equipment become effective. See below for more details about protective equipment.

**Protective equipment:** the use of protective equipment involves using a long-sleeved, fluid-resistant disposable coat and gloves. Use a surgical mask when there is a risk of dust spreading from the lab animals and bedding. By threat of drizzle or spray of liquids, use a surgical mask with a face shield.

The protective equipment (sleeves, gloves) must be taken off before leaving the exam/treatment room. **Hand disinfection must always be carried out then.**

Waste must be wrapped in a blue or a transparent plastic bag.

Close the trash bag with the unique bag-“shutter” and process as regular waste: bring the waste together with the animal to the Exp. Surg. Lab. If the wrapping appears to be violated, and there is visible pollution of furniture or bed, disinfection must be carried out using Chlorine 1000s ppm (see below).

### After the MR-scan procedure

All linen, having been in contact with the test animal or the roller-table, must be wrapped and treated as contaminated linen and returned to origin (e.g., Exp. Surg. Lab.). Do not shake the linen before packaging.

Furniture and bed, which has been in contact with the wrapped swine, must be cleaned with water and soap (green wet wipes) and disinfected with 70% hospital alcohol (blue wet wipes). Industrial wipes containing soap and Ethanol can be used, for example, wet wipe (see below).

Contact points (e.g., door handles) and horizontal surfaces, which may be contaminated with splashes, spray, or contact with swine or staff, must be cleaned and disinfected as described above.

Stains on the floor must be disinfected and/or washed if there has been waste.

The monitoring equipment, e.g., ECG cables that have been in direct contact with the lab. animal must be disinfected using Chlorine 1000 ppm – or with industrial wipes (WipeClean) containing Chlorine 1000 ppm.

Wet wipes, green and blue, can be found in the scan room or cupboard #4, shelf 5 and 6 in the hallway to operator rooms 4 and 5. You find WipeClean Chlorine Disinfection in cupboard #3, shelf 4. You can find the bucket to use with water and soap in the MR-Centres sluice room (skyllerum).

All ventilation tubes and lines used for respiratory care are to be used only once (must be thrown away). After use, they must be packed in the waste bag and brought to Exp. Surg. Lab., just like the other waste. When sealing, please ensure the tube ends to prevent loss of condensation water.

Remove dirty laundry to the laundry basket and change it when full. Fill up the linen cupboard before leaving the scanner.

### The disposable wipes:

From the left: Disposable wipes with - water and soap, Ethanol Disinfected with 70% hospital alcohol, Chlorine Disinfection 1000 ppm

#### Water and soap



#### Ethanol Disinfection



#### WipeClean Chlorine

