



Standard Operating Procedures (SOP)

Title: Post-Scan Recovery and Follow-Up	SOP No. SAIL-PET-SOP-05
	Version No. 02
	Effective Date: July 28, 2017
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Approvals

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TITLE: Post-Scan Recovery and Follow-Up	SOP No. SAIL-PET-SOP-05
	Version No. 02
	Effective Date: July 28, 2017
	Page 2 of 5

Table of Contents:

1. Purpose	Page 3
2. Scope	Page 3
3. Responsibility	Page 3
4. Materials	Page 3
5. Procedure	Page 4
6. References	Page 4
7. Appendices	Page 4
8. History of Validated Versions	Page 5

TITLE: <h2 style="text-align: center;">Post-Scan Recovery and Follow-Up</h2>	SOP No. SAIL-PET-SOP-05
	Version No. 02
	Effective Date: July 28, 2017
	Page 3 of 5

1.Purpose

To describe and outline the proper care for animals during the recovery period after a scan session with the SAIL SPECT/CT/PET scanner.

2.Scope

Applies to all studies involving scans on the SPECT/CT/PET scanner.

3.Responsibility

- 3.1 The SPECT/CT/PET technician, under the supervision of the SAIL Manager, is responsible for maintaining safety and security standards within SPECT/CT/PET room.
- 3.2 The SPECT/CT/PET technician is responsible for the reporting of any accidents and/or incidents that occur within the facility. These incidences will be documented and recorded on accident/incident forms as provided by SAIL in accordance with RI-MUHC policies.
- 3.3 It is the responsibility of the SPECT/CT/PET technician, under the supervision of the SAIL Manager, to ensure compliance with procedures involving the removal of the animal from the scanner and scan room
- 3.4 It is the responsibility of the study Principal Investigator(s) and/or his/her designate(s) to ensure monitoring of animal health after the scan protocol and to ensure compliance with the procedures described in the AUP once the animal has been removed from the scanner.

4.Materials

- Sterile physiological saline 0.9% NaCl
- Clean cage
- Heat lamp
- Autoclaved water bottles, Hydropac and/or Hydrogel hydrating replacement.
- Disposable syringe
- Sterile needle
- Approved disinfectant wipes
- Paper towels
- Sharps container
- Benchtop liner

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	Version No. 02
	Effective Date: July 28, 2017
	Page 4 of 5

5. Procedure

- 5.1 Upon completion of the scan session and procedures as indicated in the respective study imaging protocol, turn off the observation suite vaporizer and close the medical air tank valve and regulator.
- 5.2 Remove the animal from the scan bed and place it back in its cage in the designated radiation shielded space.
- 5.3 Place the cage with the animal 2 feet from a warming heat lamp source and turn on the heat lamp.
- 5.4 Fill a syringe with sterile preheated physiological saline (0.9% NaCl) and administer the appropriate dose (0.2 to 0.5mL/10g body weight) via subcutaneous injection to the animal. Dispose of the needle and syringe in the sharps container.
- 5.5 Monitor the animal respiration and responsiveness until it fully recovers. Turn off the heat lamp.
- 5.6 Keep the cage in the designated radiation shielded space until the end of the day, making sure to provide food and water bottle or Hydrogel, otherwise specified in the study's animal imaging protocol.
- 5.7 Replace the bench liner of the scanner's bed and clean it with approved disinfectant wipes.
- 5.8 At the end of the day, make a final assessment to ensure that the animal is healthy without discernible complication before transferring the animal back to its original housing room as per SAIL-SOP-01-Rodent Transportation.

6. References

SAIL-SOP-01: Rodent transportation

SAIL-SOP-02: Animal management

7. Appendices

None

