Research MRI Safety Committee
Standard

in the log.

2. Use the provided anesthesia hookups without modifying the connections.
Modification(s) can cause user exposure.

3. Wait until the animal is in the nosecone before turning on the isoflurane.

4. Monitor the animal subject continuously for proper respiration. Isoflurane is
a respiratory depressant. (Refer to B.1-6 for monitoring guidelines.)

5. Check the isoflurane level on the Poet IQ2 gas monitor.

6. Maintain proper vacuum flow on the rotameter to ensure correct air balance.

7. Turn off the isoflurane flow before removing an animal from an induction
box or nosecone.

8. After scanning, ensure the anesthesia flow is off before removing the animal
to prevent exposure.

B. Animal subjects should be monitored continuously during MRI Scanning.

1. Physiologic parameters that must be continuously monitored
a. SpO2 and heart rate using a pulse oximeter t fchyne o10.5 (x)-2 (i)2.6 (Td
( ) 57EMC/Ppan(t)-6.ur8.9 (s)-2 (houlu2.6 (ng a1).5 Tf
-0.e c)-2 ed).826 0n3)aTc 0.7 Two .5 27 Two 04 0e7Tw 0Tc >BDC
-9.07152 Td
(21 57 >BDC

c. Loss of ability to perform required monitoring through equipment failure or
any other reason, unless monitoring can be reestablished within 5 minutes
of the time at which monitoring was lost. Scanner interference with ECG
signal during functional MRI using echoplanar imaging is a known issue
and shall NOT require session termination as long as other monitoring is
available to indicate normal function and signal is reestablished
immediately following the scan.

C. Oxygen sensors, present at the MACC and Daniel M. Soref Imaging Research
Facility scanners emit a very loud, piercing sound. If alarm sounds:
1. Do Not Enter the scanner room
2. Turn on the Emergency Exhaust Fan (wall switch)
3. Call MCW Public Safety (414-955-8299) Public Safety will notify
Environmental Health and Safety (EHS)
4. Do Not Enter the scanner room until cleared by EHS
5. Notify EHS (x8007) if you observe 02 percentage trending downward;
recalibration is needed; normal 02 level is 20.9%
6. No entry is allowed into the scanner room if 02 is 19.5% or less.

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