



Policy 378

Non-Human Primate Restraint Monitoring

Responsible Official:	Research Administration
Administering Division/Department:	Research Compliance and Regulatory Affairs / IACUC
Effective Date:	10/03/2012
Last Revision Date:	06/01/2022

378.1 Policy: Nonhuman primates that are placed in a primate chair or other restraint device (i.e., small test cage) must be monitored throughout the procedure according to the guidelines below. All restraint procedures must have been approved by IACUC. The level of monitoring during restraint is dependent on the type of restraint and/or experimentation as defined below.

378.2 Monitoring Levels

378.2.1 Level I

- Animal is in the chair for less than 120 minutes and animal is well trained for the chair (per Emory Primate Center EPC SOP 5.7). The procedures are not invasive.
- Examples of procedures at this level include cognitive testing in chair or small test cage in enclosed chamber.

378.2.2 Level II –Level II – The following points apply:

- Animal is in the chair for greater than 120 minutes and the experimental procedure is not invasive
- Animal is undergoing minor experimental manipulations (receiving a drug at a dose that the animal has received previously without complications).

378.2.3 Level III – The following points apply:

- Animal is involved in invasive testing with potential for complications such as:
 - restraint with headpost or helmet
 - exposure to novel drug
 - high potential for drug complications.

378.2.4 Level IV-

- The conditions for Level III apply and the animal has physical impairment
- Animal is in initial process of training to the use of a restraint device (Per EPC SOP 5.7).



378.3 Definitions

378.3.1 Direct monitoring is defined as:

- A person who is monitoring the animal directly visualizes the animal

OR

- A person who is monitoring the animal via a live video feed that provides visualization of the animal to the person adequate to evaluate distress.

378.3.2 Indirect monitoring is defined as:

- There is evidence that the animal is performing assigned tasks that can be constantly monitored. This type of evidence may include output to a computer being monitored for task completion, electrophysiological recordings, or monitoring a physiological parameter such as pulse rate.

378.3.3 Environmental monitoring of Test Chambers is defined as:

- A testing chamber is a fully enclosed environment used for performing experimental procedures.

378.4 Monitoring Parameters

378.4.1 Monitoring animals in the **Level I** category:

- Animals must be checked by direct or indirect monitoring throughout the procedure at a minimum interval of every 30 minutes.
- If indirect monitoring is used, then the animal must also be checked by direct monitoring no less than once every hour.
- Documentation of monitoring is required every 30 minutes.

378.4.2 Monitoring animals in the **Level II** category

- Animals must be checked by direct or indirect monitoring throughout the procedure at a minimum interval of every 20 minutes.
- If indirect monitoring is used, then the animal must also be checked by direct monitoring no less than once every hour.
- Documentation of monitoring is required every 20 minutes.

378.4.3 Monitoring animals in the **Level III** category

- Animals must be checked by direct or indirect monitoring throughout the procedure with no lapse in monitoring to exceed 7 minutes.
- If indirect monitoring is used, then the animal must also be checked by direct monitoring no less than once every 15 minutes.
- Documentation of monitoring is required every 20 minutes.

378.4.4 Monitoring animals in the **Level IV** category

- Animals must be checked by direct monitoring throughout the procedure with no lapse in monitoring to exceed 7 minutes.
- Documentation of monitoring is required every 20 minutes.



378.4.5 Monitoring animals in Testing Chambers:

- Temperature and humidity always need to be monitored and documented inside of the chamber when the animal is inside.
 - Monitoring must be done once prior to beginning the procedure and then every hour until the procedure is complete.
 - If the testing session lasts less than one hour, the parameters should be documented once prior to beginning the procedure and once when the procedure is complete.
- Documentation should indicate that the temperature and humidity are within the acceptable ranges listed below.
- If the measured environmental parameters fall outside of the ranges listed below, before or during an ongoing testing session, the animal must be removed from the testing chamber and the veterinary department must be notified.

378.5 Documentation of observation and/or monitoring.

378.5.1 This will be required every 30 minutes for Level I and every 20 minutes for Levels II, III, IV. This documentation can be designed and maintained by individual laboratories and must be available for review upon request. All documentation must be retained for a minimum of 3 years.

378.5.2 Documentation for indirect monitoring must include either an indication that the animal is performing a task, or that a physiological indicator is measured showing that the condition of the animal is stable.

378.5.3 Documentation for direct monitoring should note that the animal is not exhibiting any signs of distress. If continuous monitoring is used throughout the entire session, then documentation may indicate this without requiring notations every 15-20 minutes.

378.5.4 If an enclosed testing chamber is used, documentation of measurements of parameters describing the chamber environment should indicate that the temperature is within the acceptable range of 64-80 °F and that the humidity is within 30-70%.

NOTE: Individuals monitoring animals must have ready access to a radio to facilitate communication in the event of an emergency.

Contact Information

Subject	Contact	Phone	Email
Clarification of Policy	Office of Research Compliance and Regulatory Affairs - IACUC	404-712-0734	iacuc@emory.edu

Revision History

- Version Published on: 06/03/2022
- Revisions: 04/19/2017, 04/06/2022