



TITLE: Policy and Procedures for Maintenance of Guillotines

PURPOSE: Standardize Guillotine Maintenance and Use means of producing antibodies.

REVIEW/REVISIONS: Permanent amendment/revisions to this policy must be presented to the IACUC for review before implementation and should be developed by the IACUC membership and/or UAC Veterinary personnel.

EFFECTIVE DATE: February 16, 2006; **Revisions/Re-approval:** 11/2/06, November 1, 2007

PERSON(S) RESPONSIBLE: All University Animal Care or Research personnel using a guillotine.

POLICY/PROCEDURES:

Care and Use:

Inspection:

Guillotines should be clean, in good condition, sharp and move freely. The action should be smooth with no perceptible binding or resistance, and the blade must be rust-free, sharp, and decapitate with minimal force. Lubrication may not be needed, but if it is, the use of a Teflon® or Silocone® containing compound is recommended over petroleum based compounds. This is because petroleum compounds will dry out or leave deposits that hinder operation. Any deficiencies must be repaired prior to use.

Personnel:

Personnel performing decapitation should be supervised and properly trained. University Animal Care can assist in training if desired.

Animal Restraint:

Disposable plastic containers (such as Dacapicones® or Rodent Restraint Cones®) are recommended to improve positioning, minimize distress and increase personnel safety. Their ends can be twisted and secured by hand or with a "twisty" (such as are used on produce bags).

Log:

A log of guillotine use and maintenance should be kept in the lab.

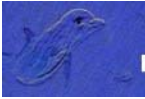
After Use:

- a) Guillotines should be rinsed, cleaned, disinfected, rinsed with 70% alcohol, and thoroughly dried.
- b) Blades should be sharpened periodically. The frequency of sharpening depends on frequency of unit use and the species euthanized.
- c) Guillotines will be inspected as part of the IACUC semi-annual inspections.

Blade Sharpening:

The following places have been identified that can sharpen guillotine blades:

Chuck's Sharpening Service
5923 E. 22nd Street
520-747-9611



- In January 2006, they estimated a charge of \$20 for blade sharpening.

University Research Instrument Shop
Room 235 Gould-Simpson Building
520-621-6760

- Estimated about \$55 for sharpening using a sharpening stone; or \$165 if the device needed to be disassembled and sharpened

Cardinal Healthcare
Contact: John or Sandra May at 743-7563

Disposal of Guillotine blades:

Blades that are longer serviceable must be placed in a sharps container for disposal.

JUSTIFICATION:

The guillotine is a method of euthanasia that is occasionally used by investigators on rodents and small rabbits. The 2007 *“Report of the AVMA Panel on Euthanasia”* indicates that this is a conditionally acceptable method if justified by the experimental design, approved by the IACUC, performed correctly and the equipment properly maintained and services on a regular basis. Additionally, the use of plastic cones for restraint seems to reduce distress from handling, improves positioning of the animal and reduces the opportunity for personnel injury. People using this technique must be properly trained.

The purpose of this policy is to ensure that all guillotines used in animal research at The University of Arizona are in good working order, maintained properly and that personnel using them are properly trained.