Standard Operating Procedure

1. Purpose

To establish minimum standards for euthanasia for avian species.

2. Scope

All units providing care for avian species must meet or exceed these minimum requirements for euthanasia based on the Guide for the Care and Use of Agricultural Animals in Research and Teaching, the Guide for the Care and Use of Laboratory Animals, and the AVMA Guidelines for the Euthanasia of Animals.

Exemptions to these policies must be approved by the Institutional Animal Care and Use Committee (IACUC) and/or the Attending Veterinarian.

3. Responsibilities

The Attending Veterinarian (AV) is responsible for the health and well-being of all laboratory animals used at an institution. The AV must assure that euthanasia is carried out by trained personnel using acceptable techniques in accordance with applicable regulations and policies.

Personnel who perform euthanasia must have documented training, experience and competency with the techniques to be used.

4. Procedure


Euthanasia must be carried out by trained personnel using acceptable techniques in accordance with applicable regulations, protocols, and policies. The method used should not interfere with postmortem evaluations. Proper euthanasia involves skilled personnel to help ensure that the technique is performed humanely and effectively and to minimize risk of injury to people.

Personnel who perform euthanasia must have training and experience with the techniques to
be used. The equipment and materials required to perform euthanasia should be readily available, and the Attending Veterinarian or a qualified animal scientist should ensure that all personnel performing euthanasia have demonstrated proficiency in the use of the techniques selected.

Euthanasia techniques should result in rapid unconsciousness followed by cardiac or respiratory arrest and the ultimate loss of brain function. In addition, the technique used should minimize any stress and anxiety experienced by the animal before unconsciousness. For this reason, anesthetic agents are generally acceptable, and animals of most species can be quickly and humanely euthanized with the appropriate injection of an overdose of a barbiturate. Certain other methods may be used for euthanasia of anesthetized animals because the major criterion (insensibility) has been fulfilled.

Physical methods of euthanasia may be used if personnel performing the procedure are properly trained. If physical methods such as cervical dislocation are used, anesthetizing the bird prior to this procedure is recommended. Every attempt should be made to minimize stress to the animal before euthanasia.

Agents that result in tissue residues cannot be used for euthanasia of animals intended for human or animal food unless those agents are approved by the FDA. The carcasses of animals euthanized by barbiturates may contain potentially harmful residues and should be disposed of in a manner that prevents them from being consumed by human beings or animals and/or entering the food chain.

2013 AVMA Guidelines for the Euthanasia of Animals:

**Avian Species:**

<table>
<thead>
<tr>
<th>Acceptable Methods</th>
<th>Acceptable with Conditions</th>
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<tbody>
<tr>
<td>Avians: Intravenous barbiturates</td>
<td>Avians: Inhaled anesthetics</td>
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<tr>
<td>Poultry: Injected barbiturates and anesthetic overdose</td>
<td>Avians and poultry: CO2, CO, N2, Ar, cervical dislocation (as anatomically appropriate, decapitation (small birds)</td>
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<td></td>
<td>Poultry: manual blunt force trauma, electrocution, gunshot, captive bolt</td>
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AV 40-105 Euthanasia for Avian Species
Verification of Death:

No matter what method of euthanasia is performed, personnel must ensure that death has occurred. Assurance of death may include ascertaining the absence of heartbeat and respiration, lack of corneal or other reflexes, and lack of physical movement. Personnel must be trained on how to assure death in animals.

5. References


6. Definitions

1. AV – Attending Veterinarian – responsible for the health and well-being of all laboratory animals used at the institution
2. AVMA – American Veterinary Medical Association – a not-for-profit organization for advancing the science and practice of veterinary medicine to improve animal and human health
3. SOP – Standard Operating Procedure – established or prescribed methods to be followed routinely for the performance of designated operations or in designated situations
4. IACUC – Institutional Animal Care and Use Committee – responsible for assessment and oversight of the institution’s animal care program components and facilities
5. Chair – Chairperson of the IACUC
6. **PI** – Principal Investigator – a Central Oregon Community College employee having the background and training in scientific and administrative oversight necessary to conduct and manage the proposed study

7. **AUP** – Animal Care and Use Protocol – protocol created by the principal investigator of the proposed research, testing, or educational study

8. **Protocol** – Animal Care and Use Protocol – protocol created by the principal investigator of the proposed research, testing, or educational study

9. **C OCC** – Central Oregon Community College

10. **Guide** – the *Guide for the Care and use of Laboratory Animals*

11. **AWA** – Animal Welfare Act – requires that minimum standards of care and treatment be provided for certain animals bred for commercial sale, used in research, transported commercially, or exhibited to the public

12. **PHS** – Public Health Service – establishes guidelines for the proper care of animals to be used in research

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<tr>
<th>Revision</th>
<th>Author</th>
<th>Revisions Made</th>
<th>Effective Date</th>
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<td>• New SOP</td>
<td>10/21/16</td>
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AV 40-105 Euthanasia for Avian Species