

	<b>Title: Canine Husbandry</b>	<b>SOP #</b>	AV 32-300
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## Standard Operating Procedure

### **1. Purpose**

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To outline the minimum standards of care for dogs based on the Public Health Service Policy and the ILAR *Guide for the Care and Use of Laboratory Animals*.

### **2. Scope**

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All units providing animal care for dogs must meet or exceed these minimum requirements.

### **3. Responsibilities**

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The Principal Investigator (PI) is responsible for ensuring that animal care units housing animals that are used in their Animal Care and Use Protocols (AUPs) are complying with this Standard Operating Procedure (SOP).

### **4. Procedure**

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Daily Tasks (365 days a year without exception):

- Observe each animal and check for health concerns.
- Record and report sick or dead animals in accordance with Daily Observation SOP (AV 20-105).
- Feed each animal twice daily (feed must be appropriate for the animal's age and condition).
- Provide sufficient potable water ad libitum.
- Any changes or restrictions to normal food and water need to be approved in an animal care and use protocol.
- Expiration dates for food must be readily available per the SOP for Food Storage (AV 40-100).
- Food requiring refrigeration must be labeled with date opened and date of expiration.
- Food and water receptacles must be rinsed.
- Remove excreta and food waste to prevent soiling of dogs.
- Spot clean whelping boxes and resting boxes.
- Clean run (include run walls and resting boards). Squeegee runs prior to putting dogs back in runs to prevent dogs from becoming wet.



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- Record minimum and maximum temperatures (ideal room temperature range for dogs is 64-84°F).
- Clean and organize room.
- Record completion of room tasks, initial, and date.

Weekly:

- Provide a clean whelping box and resting box to pregnant and nursing animals and clean resting board if rest board is used.

Biweekly (at least every 14 days):

- Clean and disinfect runs. Dogs must be removed from the run to avoid contact with the disinfectant and runs must be squeegeed to prevent the animal from becoming wet.
- Clean and disinfect food and water receptacles, whelping boxes and resting boxes.
- Clean and disinfect or change environmental enrichment. Disposable items should be discarded as soon as they are worn or soiled.

Quarterly (at least every 3 months):

- Clean and disinfect the animal room (includes walls, floors, and ceilings).

Facilities:

- Refer to Standard Operating Procedure for Facilities Maintenance (AV 50-102).
- If room temperature falls outside of the ideal range for longer than a brief period, Campus Services must be contacted.
- Minimum of 10-15 fresh room air exchanges are required.
- Floors should be moisture-resistant, nonabsorbent, impact-resistant, and relatively smooth.

Caging:

- Recommended floor space per dog:

Weight of Animal (kg)	Floor Area/Animal (ft <sup>2</sup> )	Height (inches)
<15	8.0	Cage height should be sufficient for the animals to comfortably stand erect with their feet on the floor.
Up to 30	12.0	
>30	≥ 24.0	

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- Cage floors should be solid, perforated, or slatted with a slip-resistant surface and should be moisture-resistant and nonabsorbent. In the case of perforated or slatted floors, the holes and slats should have smooth edges.
- Caging must be in good condition and free of any damage that may cause injury.

Identification:

- Dogs (weaned and older) must be individually identified in addition to having an appropriately labeled cage card (refer to SOP AV 20-106 Identification of Animals).
- Dogs can be permanently identified with a collar and tag, ear tattoo, or microchip. If dogs are microchipped, the microchip reader must be readily available and functional.
- It is preferred that puppies removed from the dam prior to weaning age be identified; this may occur for experimental use or veterinary care related procedures.

Environmental Enrichment:

- Refer to SOP for Environmental Enrichment (AV 30-102).
- There must be an established exercise plan for dogs. The following two examples do not require additional opportunity for exercise:
  - Individually housed dogs with two times the minimum required floor space do not require additional exercise.
  - Group housed dogs maintained in cages that provide each dog with 100% of the minimum required floor space per dog do not require additional exercise.
- Dogs should be provided with the opportunity to demonstrate species-typical movement.
- Some examples of enrichment for dogs include: Nylabones, Kong toys, resting boards, exercise pens, food treats, and social housing.
- Devices used for environmental enrichment must be easily cleaned and disinfected or disposable.
- Devices must be checked regularly for wear and discarded when safety hazards are observed.

Social Housing:

- Single housing of social species should be considered the exception and justified based on experimental requirements or veterinary-related concerns about well-being.
- Whenever possible, dogs should be socially housed and when they cannot, the period of time should be kept to a minimum and those animals should be offered positive interaction with animal care staff and offered additional enrichment items.

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Euthanasia:

- Veterinary staff may euthanize sick animals following approved methods in the current *AVMA Guidelines on Euthanasia*.

**5. References**

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1. Institute of Laboratory Animal Resources: Guide for the Care and use of Laboratory Animals, National Academy Press, Eighth Edition ([http://www.nap.edu/catalog.php?record\\_id=12910](http://www.nap.edu/catalog.php?record_id=12910)).
2. Animal Welfare Act and Animal Welfare Regulations. United States Department of Agriculture, 2013 ([https://www.aphis.usda.gov/animal\\_welfare/downloads/Animal%20Care%20Blue%20Book%20-%202013%20-%20FINAL.pdf](https://www.aphis.usda.gov/animal_welfare/downloads/Animal%20Care%20Blue%20Book%20-%202013%20-%20FINAL.pdf)).
3. National Institutes of Health: Public Health Service Policy on Humane Care and Use of Laboratory Animals (<http://grants.nih.gov/grants/olaw/references/phspol.htm>).
4. The Federation of Animal Science Societies: Guide for the Care and Use of Agricultural Animals in Research and Teaching, 3<sup>rd</sup> Edition, 2010 ([http://www.fass.org/docs/agguide3rd/Ag\\_Guide\\_3rd\\_ed.pdf](http://www.fass.org/docs/agguide3rd/Ag_Guide_3rd_ed.pdf)).
5. AVMA Guidelines for the Euthanasia of Animals: 2013 Edition (<https://www.avma.org/KB/Policies/Documents/euthanasia.pdf>).

**6. Definitions**

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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



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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. COCC – 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
13. Clinical veterinarian – the Attending Veterinarian or designee

Revision	Author	Revisions Made	Effective Date	Approval
1	Cindy Elston	<ul style="list-style-type: none"> <li>• New SOP</li> </ul>	10/14/16	Cindy Elston (AV)
		<ul style="list-style-type: none"> <li>•</li> </ul>		