

# **Laws and Regulations Quiz**

**2009 C.L. Davis, DVM Foundation  
Topics in Laboratory Animal Medicine**

**May 8, 2009**

**Betsy J. Walton, DVM**



## *Disclaimer*

**This is not an ACLAM sanctioned presentation**

**All information is deemed reliable and correct**

**No warranty for accuracy**

**No information presented is known to be specifically  
included in the ACLAM Board examinations**



# *Outline*

**ACLAM Role Delineation Document**

**Possible References**

**Quiz Bowl Q&A**

**Future Regulations, Laws, Policies to Monitor**



# ACLAM Certification Overview

- Taken from the website: [aclam.org](http://aclam.org)
- Certification- Overview-Examine ACLAM's [Role Delineation Document \(RDD\)](#).
  - Best describes the proficiency required by an ACLAM Diplomate
  - Certification examination will now closely mirror the tasks and species in this document.
  - Broken into 10 Tasks

Copyright © ACLAM. All Right Reserved.



# **Role Delineation Document**

**Task 7 – Provide Consultation Governing  
Appropriate Care & Use of Laboratory Animals  
(Weight 10 %  $\pm$  2%)**

**K1. Laws, regulations, and standards including  
(but not limited to):**



# Role Delineation Document

## Task 7 – Continued

- a) Animal Welfare Act/USDA regulations and policies
- b) Public Health Service Policy on Humane Care and Use of Animals
- c) Guide for the Care and Use of Laboratory Animals (ILAR/NRC) and other related ILAR publications
- d) Report of the AVMA Panel on Euthanasia
- e) Biosafety in Microbiological and Biomedical Laboratories (CDC/NIH)
- f) Good Laboratory Practices (FDA/EPA) and Good Manufacturing Practices (FDA)
- g) Endangered Species Act/CITES
- h) Standardized Genetic Nomenclature of Inbred Strains of Mice (ICLA)
- i) Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching (FASS)
- j) Live Animals Regulations (IATA – International Air Transportation Association)
- k) USDA and CDC animal importation regulations
- l) Recombinant DNA Guidelines
- m) Controlled Substances Act/DEA Regulations
- n) ARENA Guidebook

Note: This list is not all-inclusive. A laboratory animal medicine specialist should also be aware of any other applicable laws, regulations and standards, including those of local importance.



# **Role Delineation Document**

**Task 7 – Provide Consultation Governing  
Appropriate Care & Use of Laboratory  
Animals (Weight 10 %  $\pm$  2%)**

**K2. Role and Function of the IACUC**

**K3. Role and Function of AAALAC International**



# **Role Delineation Document**

## **Task 5 – Execute IACUC Veterinary Responsibilities (Weight 12 % $\pm$ 2%)**

### **K1. Laws, regulations, and standards pertinent to animal care and use**



# **Role Delineation Document**

## **Task 6 – Design and Operate Laboratory Animal Facilities (Weight 10 % $\pm$ 2%)**

### **K1. Regulations and standards.**



# **Role Delineation Document**

## **Task 4 – Develop and Manage Animal Husbandry Programs (Weight 12 % $\pm$ 2%)**

**K1. Occupational health and safety.**

**K10. Laws, regulations, and standards pertaining to animal husbandry, housing, transportation and documentation**



# **Role Delineation Document**

## **Task 8 – Educate Scientific, Animal Care, and Ancillary Staff (Weight 5 % $\pm$ 1%)**

**K1. Laws, regulations, and standards as they relate to requirements for properly trained individuals**



# Resources

LABSG-<http://www.labsbg.org/>



## Laboratory Animal Boards Study Group

Helping professionals prepare for certification in laboratory animal medicine and science.

Home

LABSG FAQ's

Study Center

Calendar

Message Board

Admin

Contact Us

PVAMC Posters

The Laboratory Animal Study Group (LABSG) is a LISTSERV journal group that is owned by Angela King-Herbert and moderated by Stephanie Murphy. The members include veterinary students, laboratory animal residents and post-doc students, and "ACLAM-boarded" laboratory animal veterinarians. These individuals are assigned journal articles from current laboratory animal journals. They create summaries and sample questions and answers that are posted to the list. The information on this website would not be available if it was not for the hard work of all of the members.

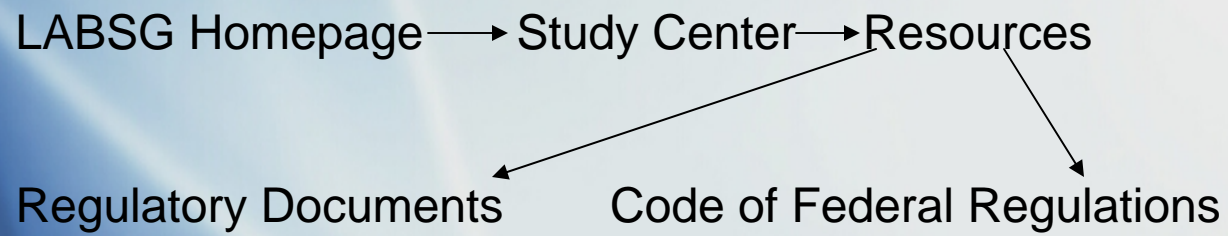
If you are not a member and would like to download some of these files, please feel free. However, we do ask that you consider [joining](#) the group and contributing to future summaries. Even if you are not preparing for boards, it is a good way to stay current on the literature! And, if you are preparing for boards, remember that there are cosmic forces out there that may not take kindly to taking advantage of the hard work of others. Don't let bad karma affect your test!!!

This web page also has quizzes, slide sets, and audio files that can help with your learning. You can access these by using the "Resources" button.

But, one serious note. What you will not find on this web page and LISTSERV are actual exam questions from the ACLAM, ECLAM or other laboratory animal science and medicine certifying examinations. LABSG supports the examination security of all of the certifying organizations. To that end, we do not allow the posting of actual examination information via the listserv or the web site. Individuals who post actual certifying examination information will be referred to certifying organization for investigation.



# Resources





# Resources



LABSG

## Laboratory Animal Boards Study Group

Helping professionals prepare for certification in laboratory animal medicine and science.

Home

Study Center

Audio Files

Curriculum

Journals

Mock Exams

Resources

Other Links

Study Tips

### Study Questions from Regulatory Documents

*There is no guarantee that the mock exams posted here will accurately reflect the actual ACLAM, ECLAM or other laboratory animal medicine and science certifying exams in terms of content or format. These mock exams are meant to be a learning experience and a resource in preparing for ACLAM, ECLAM or other laboratory animal medicine and science certifying exams.*

[APHIS, USDA. Animal care policy manual \(policies #1-29\).](#)

[Applied Research Ethics National Association \(ARENA\) and Office of Laboratory Animal Welfare \(OLAW\). 2002. Institutional animal care and use committee guidebook. 2nd Edition. OLAW, Bethesda, MD.](#)

[AVMA Panel on Euthanasia. American Veterinary Medical Association. 2001. 2000 report of the AVMA panel on euthanasia. JAVMA 218\(5\):669-696.](#)

[Committee on Guidelines for the Use of Animals in Neuroscience and Behavioral Research. Institute for Laboratory Animal Research. Division on Earth and Life Studies. 2003. Guidelines for the care and use of mammals in neuroscience and behavioral research. National Academies Press, Washington, D. C.](#)

[Committee on Occupational Health and Safety in the Care and Use of Nonhuman Primates. Institute for Laboratory Animal Research. Division on Earth and Life Studies. National Research Council of the National Academies. 2003. Occupational health and safety in the care and use of nonhuman primates. The National Academies Press, Washington, D. C.](#)

[Committee on Occupational Safety and Health in Research Animal Facilities. Institute of Laboratory Animal Resources. Commission on Life Sciences. National Research Council. 1997. Occupational health and safety in the care and use of research animals. National Academy Press, Washington, D. C.](#)

[Committee on Well-Being of Nonhuman Primates, National Research Council. 1998. The psychological well-being of nonhuman primates. National Academies Press, Washington, D. C.](#)

[Federation of Animal Science Societies. 1999. Guide for the care and use of agricultural animals in agricultural research and teaching, 1<sup>st</sup> revised ed. Federation of Animal Science Societies, Savoy, Illinois.](#)

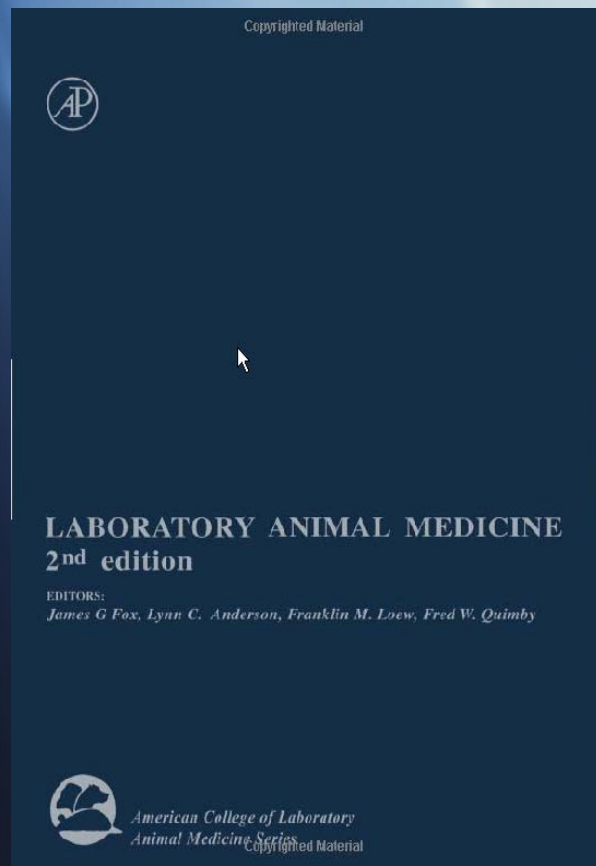
[Institute of Laboratory Animal Resources. Commission on Life Sciences. National Research Council. 1996. Guide for the care and use of laboratory animals. National Academy Press, Washington, D. C.](#)

[Morrison A. R., H. L. Evans, N. A. Ator, and R. K. Nakamura. 2002. Methods and welfare considerations in behavioral research with animals: report of a national institutes of health workshop. The National Institute of Mental Health, Rockville, MD.](#)

[National Center for Research Resources \(NCRR\). 2000. Cost analysis and rate setting manual for animal research facilities. NCRR Office of Science Policy and Public Liaison, Bethesda, MD.](#)



# Resources



## Chapter 2 Laws, Regulations, and Policies Affecting the Use of Laboratory Animals

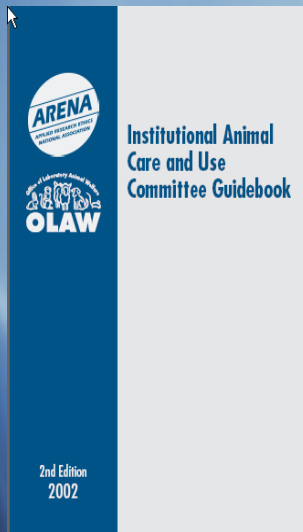
*Lynn C. Anderson*

I. Introduction	19
II. Animal Welfare	20
III. Importation and Exportation of Animals and Animal Products	29
IV. Hazardous Substances	31
...	
V. Recombinant DNA Research Guidelines	31
References	32



# Resources-

<http://grants.nih.gov/grants/olaw/guidebook.pdf>



## List of Tables by Section

A.2. Table A.	Comparison of IACUC Membership Requirements .....	14
A.2. Table B.	Federally Mandated Functions of the IACUC .....	17
B.5. Table A.	General Training Objectives .....	68
B.6. Table A.	Examples of Categories of Emergencies .....	79
B.6. Table B.	Core Functions of an Animal Facility .....	80
C.1. Table A.	Regulatory Criteria Applicable to Protocol Review as Defined in PHS Policy and USDA Regulations .....	86
C.2.a. Table A.	Methods for Reduction of Numbers of Animals Used .....	98
C.2.c. Table A.	Examples of Humane Endpoints for Studies with Potential Lethality .....	107
C.2.d. Table A.	Definitions of Terminology Related to Pain and Distress .....	112
C.2.d. Table B.	Signs of Acute Pain .....	112
C.2.d. Table C.	Signs, Degree and Length of Surgically Produced Pain .....	113
E.1. Table A.	Federal Requirements: Recordkeeping .....	174
E.1. Table B.	Federal Requirements: Assurance and Registration .....	175
E.1. Table C.	Federal Requirements: Report of Semiannual Evaluations .....	176
E.1. Table D.	Federal Requirements: Annual Report .....	177
E.1. Table E.	Federal Requirements: Suspensions and Noncompliance .....	178

### A.2. Table A. Comparison of IACUC Membership Requirements

PHS Policy PHS Policy IV.A. 3. a., b.  <i>Appointed by the CEO Minimum of five members:</i>	USDA Regulations 9 CFR, 2.31 (a) (b)  <i>Appointed by the CEO Minimum of three members:</i>
One Doctor of Veterinary Medicine with training or experience in laboratory animal science and medicine who has direct or delegated program authority and responsibility for activities involving animals at the institution.	At least one Doctor of Veterinary Medicine with training or experience in laboratory animal science and medicine, and who has direct or delegated program responsibility for activities involving animals at the institution.
One practicing scientist experienced in research involving animals.	
One member whose primary concerns are in a nonscientific area (for example, ethicist, lawyer, clergy).	
One member not affiliated in any way with the institution and not a member of the immediate family of a person who is affiliated with the institution.	One member not affiliated in any way with the institution and not a member of the immediate family of a person who is affiliated with the institution; person who represents the general community interests in the proper care and treatment of animals; and is not a laboratory animal user (USDA Policy # 15)
The PHS Policy requires institutions to follow the Guide, which states that committee membership should include at least one public member to represent general community interests in proper care and use of animals, and that public members should not be laboratory animal users.	Not more than three members from the same administrative unit of the institution.

### C.1. Table A. Regulatory Criteria Applicable to Protocol Review as Defined in PHS Policy and USDA Regulations

U.S. Government Principles Note: Citations at the end of each Principle refer to end of Sections of this Guidebook.	PHS Policy on Humane Care and Use of Laboratory Animals	USDA AWR 9 CFR Part 2, Subpart C
<b>Principle I:</b> The transportation, care and use of animals should be in accordance with the AWA (7 U.S.C.2131 et. seq.) and other applicable federal laws, guidelines, and policies. *For guidance throughout these Principles, the reader is referred to the Guide.	C.1.: ...the IACUC shall...determine that the proposed research projects are in accordance with this Policy...the IACUC shall confirm that the research project will be conducted in accordance with the AWA insofar as it applies to the research project, and that the research project is consistent with the Guide unless acceptable justification for a departure is presented.	§2.31(d): ...The IACUC shall determine that the proposed activities are in accordance with this subchapter unless acceptable justification for a departure is presented in writing...
<b>Principle II:</b> Procedures involving animals should be designed and performed with due consideration of their scientific relevance to human or animal health, the advancement of knowledge, or the good of society.		§2.31(d)(1)(iii): The PI has provided written Assurance that the activities do not unnecessarily duplicate previous experiments.
<b>Principle III:</b> The animals selected for a procedure should be of an appropriate species and quality and the minimum number required to obtain valid results. Methods such as mathematical models, computer simulation, and in vitro biological systems should be considered. (See C.2.a. Alternatives)	D.1.: Applications and proposals...that involve the care and use of animals shall contain the following: a.) Identification of the species and the approximate number of animals to be used; b.) rationale for involving animals, and for the appropriateness of the species and numbers of animals to be used...	§2.31(e): A proposal...must contain the following: (1) Identification of the species and approximate number of animals to be used; (2) A rationale for involving animals, and for the appropriateness of the species and numbers of animals to be used...



# **Resources**

## **Camp ACLAM**

**A perfect way to prepare for the ACLAM board exam at the Charles River Short Course, Newton, MA in June annually**





# Q & A's



# Question 1

**Under the Good Laboratory Practices Regulations (Food and Drug Administration, 1978) an institution seeking FDA approval of a product which of the following is false?**

- a. Each institution must have written protocols and standard operating procedures**
- b. Each institution must provide adequate facilities, equipment and animal care**
- c. Each institution must properly identify a test substance**
- d. Each institution must annually submit to FDA a copy of the IACUC's semiannual program reviews.**



# Question 1

**Under the Good Laboratory Practices Regulations (Food and Drug Administration, 1978) which of the following is false?**

- a. Each institution must have written protocols and standard operating procedures**
- b. Each institution must provide adequate facilities, equipment and animal care**
- c. Each institution must properly identify a test substance**
- d. Each institution must annually submit to FDA a copy of the IACUC's semiannual program reviews.**

**Answer: d.**

**Reference: Laboratory Animal Medicine (LAM). Fox, J.G., et al. pg 26-27.**



## Question 2

**The Convention on International Trade in Endangered Species (CITES) and the Endangered Species Act is enforced by which agency?**

- a. U.S. Fish and Wildlife Service**
- b. U.S. Center for Disease Control and Prevention**
- c. USDA**
- d. U.S. Department of Endangered Species**



## Question 2

**The Convention on International Trade in Endangered Species (CITES) and the Endangered Species Act is enforced by which agency?**

- a. U.S. Fish and Wildlife Service**
- b. U.S Center for Disease Control and Prevention**
- c. USDA**
- d. U.S. Department of Endangered Species**

**Answer a.**

**Reference: LAM pg.30**



## Question 3

**Regarding Biosafety Level-3, when etiologic agents are in use, the biohazard sign at the lab entrance does not need to include?**

- a. Special requirements for entering the laboratory such as personal protective equipment requirements, immunizations, etc.**
- b. Contact information of laboratory directors and responsible personnel**
- c. Veterinary emergency contact info**
- d. Identification of the agent**



## Question 3

**Regarding Biosafety Level-2, when etiologic agents are in use, the hazard warning sign at the lab entrance does not need to include?**

- a. Special requirements for entering the laboratory such as personal protective equipment requirements, immunizations, etc.**
- b. Contact information of laboratory directors and responsible personnel**
- c. Veterinary emergency contact info**
- d. Identification of the agent**

**Answer: c.**

**Reference: BioSafety in Microbiological & Biomedical Laboratories (BMBL) 4th edition, pg 29**



## Question 4

**According to the PHS Policy, which of the following is NOT listed as a necessary member of the IACUC?**

- a. A doctor of veterinary medicine**
- b. A practicing scientist**
- c. A nonaffiliated member**
- d. A nonscientific member**
- e. A committee chair**



## Question 4

**According to PHS Policy, which of the following is NOT listed as a necessary member of the IACUC?**

- a. A doctor of veterinary medicine**
- b. A practicing scientist**
- c. A nonaffiliated member**
- d. A nonscientific member**
- e. A committee chair**

**Answer: e.**

**Reference: OLAW Institutional Animal Care and Use Committee Guidebook, pg. 14**



## Question 5

**According to the A.W.A, primary enclosures used to transport nonhuman primates must be clearly marked in English with the words \_\_\_\_\_ in letters at least 1” high.**

- a. Do not touch or Keep hands away**
- b. Live animals or Wild animals**
- c. Frugivore, feed accordingly**
- d. Danger, Nonhuman primates**



## Question 5

**According to the A.W.A, primary enclosures used to transport nonhuman primates must be clearly marked in English with the words \_\_\_\_\_ in letters at least 1” high.**

- a. Danger, Nonhuman primates**
- b. Do not touch or Keep hands away**
- c. Live animals or Wild animals**
- d. Frugivore, feed accordingly**

**Answer: c**

**Reference: Animal Welfare Act (AWA) 3.87, f.**



## Question 6

**An official USDA tag must have all the following except:**

- a. identification number**
- b. animal's date of birth**
- c. numbers and letters identifying the state and dealer**
- d. the letters "USDA"**



## Question 6

**An official USDA tag must have all the following except:**

- a. identification number**
- b. animal's date of birth**
- c. numbers and letters identifying the state and dealer**
- d. the letters "USDA"**

**Answer: b.**

**Reference: AWA 2.51,b.**



## Question 7

**Research facilities that obtain dogs or cats from sources other than dealers, exhibitors, and persons who are exempt from licensing regulations must hold the animals for \_\_\_\_ full days before using them in a research project, not including the day of acquisitions or time in transit.**

- a. 3**
- b. 10**
- c. 7**
- d. 5**



## Question 7

**Research facilities that obtain dogs or cats from sources other than dealers, exhibitors, and persons who are exempt from licensing regulations must hold the animals for \_\_\_\_ full days before using them in a research project, not including the day of acquisitions or time in transit.**

- a. 3**
- b. 10**
- c. 7**
- d. 5**

**Answer: d.**

**Reference: AWA 2.38,j.**



## Question 8

**The National Fire Protection Association has classified fires into four types. A Class B fire could be caused by which of the following groups of materials except?**

- a. Lab equipment, lighting systems**
- b. Bedding, paper gowns**
- c. Combustible metals**
- d. Flammable solvents**



## Question 8

**The National Fire Protection Association has classified fires into four types. A Class B fire could be caused by which of the following groups of material except?**

- a. Lab equipment, lighting systems**
- b. Bedding, paper gowns**
- c. Combustible metals**
- d. Flammable solvents**

**Answer: C. Class D Fire**

**Reference: Occupational Health and Safety in the Care and Use of Research Animals. 1997. pg 35.**



## Question 9

**Research facilities must have a mechanism in place for ensuring that animals are reported in the appropriate pain category on the annual report (APHIS Form 7023). In what column should animals experiencing pain or distress, which is alleviated with anesthetics, analgesics, sedatives, and/or tranquilizers reported in?**

- a. Column D**
- b. Column C**
- c. Column B**
- d. Column E**



## Question 9

**Research facilities must have a mechanism in place for ensuring that animals are reported in the appropriate pain category on the annual report (APHIS Form 7023). In what column should animals experiencing pain or distress, which is alleviated with anesthetics, analgesics, sedatives, and/or tranquilizers reported in?**

- a. Column D**
- b. Column C**
- c. Column B**
- d. Column E**

**Answer: a.**

**Reference: Animal Care Policy #11-Painful/Distressful Procedures-  
April 14, 1997**



## Question 10

**Which class of lasers can present a fire hazard?**

- a. Class I**
- b. Class II**
- c. Class IIIa**
- d. Class IIIb**
- e. Class IV**



## Question 10

**Which class of lasers can present a fire hazard?**

- a. Class I**
- b. Class II**
- c. Class IIIa**
- d. Class IIIb**
- e. Class IV**

**Answer: e.**

**Reference: Occ. Health and Safety in the Care and Use of Res. Animals. 197. pg 38.**



## Question 11

**During surface transportation, inside primary conveyance, what ambient temperature range must be kept at all times?**

- a. 35-75° F**
- b. 45-85° F**
- c. 40-70° F**
- d. 50-90° F**



## Question 11

**During surface transportation, inside primary conveyance, what ambient temperature range must be kept at all times?**

- a. 35-75° F
- b. 45-85° F
- c. 40-70° F
- d. 50-90° F

**Answer: b.**

**Reference: AWA 3.88,e.**



## Question 12

**Which document defines an animal as “any live vertebrate animal used or intended for use in research, research training, experimentation or biological testing or for related purposes”?**

- a. Public Health Service Policy**
- b. Animal Welfare Act**
- c. The Guide for the Care and Use of Laboratory Animals**
- d. The Health Research Extension Act**



## Question 12

**Which document defines an animal as “any live vertebrate animal used or intended for use in research, research training, experimentation or biological testing or for related purposes”?**

- a. Public Health Service Policy**
- b. Animal Welfare Act**
- c. The Guide for the Care and Use of Laboratory Animals**
- d. The Health Research Extension Act**

**Answer: a.**

**Reference: PHS Policy on Humane Care and Use of Laboratory Animals III. A. 1996.**



## Question 13

**According to the 2000 AVMA Panel on Euthanasia, manual cervical dislocation is a humane technique for small birds that weigh \_\_\_\_\_?**

- a. There is no weight limit for this technique in small birds**
- b. <400grams**
- c. <300grams**
- d. <200grams**



## Question 13

**According to the 2000 AVMA Panel on Euthanasia, manual cervical dislocation is a humane technique for small birds that weigh \_\_\_\_\_?**

- a. There is no weight limit for this technique in small birds**
- b. <400grams**
- c. <300grams**
- d. <200grams**

**Answer: d.**

**Reference: 2000 AVMA Panel on Euthanasia. pg. 682**



## Question 14

**When conducting studies with laboratory rodents experimentally infected with *Bacillus anthracis*, what level of biosafety is recommended for personnel protection?**

- a. BSL 1**
- b. BSL 2**
- c. BSL 3**
- d. BSL 4**



## Question 14

**When conducting studies with laboratory rodents experimentally infected with *Bacillus anthracis*, what level of biosafety is recommended for personnel protection?**

- a. BSL 1**
- b. BSL 2**
- c. BSL 3**
- d. BSL 4**

**Answer: b.**

**Reference: BMBL, Section VII-A-Bacterial Agents, pg 88.**



## Question 15

**What is the correct order of preference for euthanasia of small animals (<7kg) with inhalant anesthetics?**

- a. Desflurane-methoxyflurane-sevoflurane-isoflurane-enflurane-halothane**
- b. Sevoflurane-isoflurane-enflurane-halothane-desflurane-methoxyflurane**
- c. Methoxyflurane-sevoflurane-isoflurane-enflurane-halothane-desflurane**
- d. Halothane-enflurane-isoflurane-sevoflurane-methoxyflurane-desflurane**



## Question 15

**What is the correct order of preference for euthanasia of small animals (<7kg) with inhalant anesthetics?**

- a. Desflurane-methoxyflurane-sevoflurane-isoflurane-enflurane-halothane**
- b. Sevoflurane-isoflurane-enflurane-halothane-desflurane-methoxyflurane**
- c. Methoxyflurane-sevoflurane-isoflurane-enflurane-halothane-desflurane**
- d. Halothane-enflurane-isoflurane-sevoflurane-methoxyflurane-desflurane**

**Answer: d.**

**Reference: 2000 AVMA Panel of Euthanasia pg. 676**



## Question 16

**In the *Guide*, laboratory animals are defined as:**

- a. Any live or dead animal used in research, teaching, or testing**
- b. Any live or dead dog, cat or NHP, GP, hamster or rabbit or any other warm blooded animal used for research teaching, testing, experimentation or exhibition.**
- c. Any vertebrate animal used in research, teaching or testing.**
- d. Any live vertebrate animal used or intended for use in research, research training, experimentation or biological testing or for related purposes.**



## Question 16

In the *Guide*, laboratory animals are defined as:

- a. Any live or dead animal used in research, teaching, or testing
- b. Any live or dead dog, cat or NHP, GP, hamster or rabbit or any other warm blooded animal used for research teaching, testing, experimentation or exhibition.
- c. Any vertebrate animal used in research, teaching or testing.
- d. Any live vertebrate animal used or intended for use in research, research training, experimentation or biological testing or for related purposes.

Answer: c.

Reference: The Guide, Introduction, pg. 1



## Question 17

**During transportation, how often should a 5 year old nonhuman primate be offered food and water?**

- a. Food once every 8 hr; water once every 8 hr**
- b. Food once every 12 hr; water once every 12 hr**
- c. Food once every 24 hr; water once every 12 hr**
- d. Food ad lib; water by bottle continuously**



## Question 17

**During transportation, how often should a 5 year old nonhuman primate be offered food and water?**

- a. Food once every 8 hr; water once every 8 hr**
- b. Food once every 12 hr; water once every 12 hr**
- c. Food once every 24 hr; water once every 12 hr**
- d. Food ad lib; water by bottle continuously**

**Answer: c.**

**Reference: AWA 3.89, a.**



## Question 18

**If dogs are exempt from the exercise program due to their health, condition, or well-being, and the basis for the exemption is not permanent, how often must the attending veterinarian review the need for the exemption?**

- a. Annually**
- b. Every 30 days**
- c. Every 60 days**
- d. Every 90 days**



## Question 18

**If dogs are exempt from the exercise program due to their health, condition, or well-being, and the basis for the exemption is not permanent, how often must the attending veterinarian review the need for the exemption?**

- a. Annually**
- b. Every 30 days**
- c. Every 60 days**
- d. Every 90 days**

**Answer: b.**

**Reference: AWA 3.8, a.**



## Question 19

**According to the *Guide*, which of the following would not adequately justify multiple major survival surgeries?**

- a. To conserve scarce animal resources**
- b. Scientifically justified and approved by the IACUC**
- c. To save time for research group and also reduce financial outlay**
- d. If additional surgeries are needed for clinical reasons**



## Question 19

**According to the *Guide*, which of the following would not adequately justify multiple major survival surgeries?**

- a. To conserve scarce animal resources**
- b. Scientifically justified and approved by the IACUC**
- c. To save time for research group and also reduce financial outlay**
- d. If additional surgeries are needed for clinical reasons**

**Answer: c.**

**Reference: The Guide, Multiple Major Surgical Procedures, pg12.**



## Question 20

**According to PHS Policy regarding institutional status, what is the difference between Category 1 and Category 2 institutions?**

- a. AAALAC accreditation**
- b. Size of the institution**
- c. Presence of non-human primates at the institution**
- d. Attending veterinarian is an ACLAM Diplomate**



## Question 20

**According to PHS Policy regarding institutional status, what is the difference between Category 1 and Category 2 institutions?**

- a. AAALAC accreditation**
- b. Size of the institution**
- c. Presence of non-human primates at the institution**
- d. Attending veterinarian is an ACLAM Diplomate**

**Answer: a.**

**Reference: PHS Policy section IV.A.2.**



## Question 21

**According to the *Guide*, storage areas for dead animals and animal-tissue waste should be kept below what temperature?**

- a. 0°C (32° F)**
- b. 4° C (39.2° F)**
- c. 7° C (44.6° F)**
- d. 10° C (50°F)**



## Question 21

**According to the *Guide*, storage areas for dead animals and animal-tissue waste should be kept below what temperature?**

- a. 0°C (32° F)
- b. 4° C (39.2° F)
- c. 7° C (44.6° F)
- d. 10° C (50°F)

**Answer: c.**

**Reference: The Guide, pg 77.**



## Question 22

**Urine is a major source of allergens from which of the following species?**

- a. Mouse, rat, ferret**
- b. Mouse, rabbit, guinea pig**
- c. Mouse, rat, reptile**
- d. Mouse, dog, cat**



## Question 22

**Urine is a major source of allergens from which of the following species?**

- a. Mouse, rat, ferret**
- b. Mouse, rabbit, guinea pig**
- c. Mouse, rat, reptile**
- d. Mouse, dog, cat**

**Answer: b.**

**Reference: Occupational Health and Safety in the Care and Use of Research Animals. 1997. pg 54-59.**



## Question 23

**Which of the following correctly represents the meaning of the acronym HEPA?**

- a. Highly Energized Partitions in Air**
- b. Horizontal Escalating Particulate Air**
- c. High Efficiency Particulate Air**
- d. High Efficiency Partitioned Air**



## Question 23

**Which of the following correctly represents the meaning of the acronym HEPA?**

- a. Highly Energized Partitions in Air**
- b. Horizontal Escalating Particulate Air**
- c. High Efficiency Particulate Air**
- d. High Efficiency Partitioned Air**

**Answer: c.**

**Reference: LAM 2nd edition, pg 919.**



## Question 24

**The official definition of a HEPA filter is a filter that:**

- a. Filters out 99.00% of all particles  $\geq 0.3\mu\text{m}$**
- b. Filters out 97.00% of all particles  $\geq 0.3\mu\text{m}$**
- c. Filters out 99.97% of all particles  $\geq 0.5\mu\text{m}$**
- d. Filters out 99.97% of all particles  $\geq 0.3\mu\text{m}$**



## Question 24

**The official definition of a HEPA filter is a filter that:**

- a. Filters out 99.00% of all particles  $\geq 0.3\mu\text{m}$**
- b. Filters out 97.00% of all particles  $\geq 0.3\mu\text{m}$**
- c. Filters out 99.97% of all particles  $\geq 0.5\mu\text{m}$**
- d. Filters out 99.97% of all particles  $\geq 0.3\mu\text{m}$**

**Answer: d.**

**Reference: LAM 2nd edition, pg 919.**



## Question 25

**When conducting studies utilizing nonhuman primates and guinea pigs experimentally or naturally infected with *Mycobacterium tuberculosis*, what level of biosafety is recommended for personnel protection? (Select the single best answer)**

- a. BSL 3 for NHP's; BSL 3 for guinea pigs**
- b. BSL 3 for NHP's; BSL 2 for guinea pigs**
- c. BSL 2 for NHP's; BSL 2 for guinea pigs**
- d. BSL 2 for NHP's' BSL 3 for guinea pigs**



## Question 25

**When conducting studies utilizing nonhuman primates and guinea pigs experimentally or naturally infected with *Mycobacterium tuberculosis*, what level of biosafety is recommended for personnel protection? (Select the single best answer)**

- a. BSL 3 for NHP's; BSL 3 for guinea pigs**
- b. BSL 3 for NHP's; BSL 2 for guinea pigs**
- c. BSL 2 for NHP's; BSL 2 for guinea pigs**
- d. BSL 2 for NHP's' BSL 3 for guinea pigs**

**Answer: b.**

**Reference: BMBL; Agent Summary- Bacteria. pg 106.**



## Question 26

**Who is responsible for insuring that personnel performing surgical procedures on animals are appropriately qualified and trained?**

- a. Institutional Animal Care and Use Committee**
- b. Individual performing the surgical procedure**
- c. Attending veterinarian**
- d. Principal investigator**



## Question 26

**Who is responsible for insuring that personnel performing surgical procedures on animals are appropriately qualified and trained?**

- a. Institutional Animal Care and Use Committee**
- b. Individual performing the surgical procedure**
- c. Attending veterinarian**
- d. Principal investigator**

**Answer: a.**

**Reference: The *Guide*, pg.61.**



## Question 27

**According to the *Guide*, at least how often should the IACUC meet?**

- a. Monthly**
- b. Quarterly**
- c. Every 6 months**
- d. Every 12 months**



## Question 27

**According to the *Guide*, at least how often should the IACUC meet?**

- a. Monthly**
- b. Quarterly**
- c. Every 6 months**
- d. Every 12 months**

**Answer: c.**

**Reference: The *Guide*, pg. 9**



## Question 28

**Which entity is responsible for requesting, negotiating, approving, disapproving, restricting, or withdrawing approval of Public Health Service Assurance?**

- a. USDA**
- b. Department of Health and Human Services**
- c. OLAW**
- d. APHIS**



## Question 28

**Which entity is responsible for requesting, negotiating, approving, disapproving, restricting, or withdrawing approval of Public Health Service Assurance?**

- a. USDA**
- b. Department of Health and Human Services**
- c. OLAW**
- d. APHIS**

**Answer: c.**

**Reference: PHS Policy IV. A.**



## Question 29

**According to PHS Policy, who makes appointments to the IACUC?**

- a. Attending veterinarian**
- b. Institutional official**
- c. Chief Executive Officer**
- d. IACUC Chairperson**



## Question 29

**According to PHS Policy, who makes appointments to the IACUC?**

- a. Attending veterinarian**
- b. Institutional official**
- c. Chief Executive Officer**
- d. IACUC Chairperson**

**Answer: c.**

**Reference, PHS Policy IV.A.3.a**



## Question 30

**In the United States, which of the following is responsible for enforcing the Lacey Act?**

- a. Department of the Interior, U.S. Fish and Wildlife Service**
- b. Department of Health and Human Services**
- c. The Environmental Protection Agency**
- d. Department of Agriculture, APHIS**



## Question 30

**In the United States, which of the following is responsible for enforcing the Lacey Act?**

- a. Department of the Interior, U.S. Fish and Wildlife Service**
- b. Department of Health and Human Services**
- c. The Environmental Protection Agency**
- d. Department of Agriculture, APHIS**

**Answer: a.**

**Reference: LAM 2nd edition, pg. 30.**



## Question 31

**In accordance with the Animal Welfare Act, at what interval must research facilities, intermediate handlers, and common carriers of regulated species register with the USDA?**

- a. Every year**
- b. Every 2 years**
- c. Every 3 years**
- d. Every 4 years**



## Question 31

**In accordance with the Animal Welfare Act, at what interval must research facilities, intermediate handlers, and common carriers of regulated species register with the USDA?**

- a. Every year**
- b. Every 2 years**
- c. Every 3 years**
- d. Every 4 years**

**Answer: c.**

**Reference: LAM 2nd edition, pg. 21.**



## Question 32

**How often must importers of nonhuman primates register with the CDC?**

- a. Every year**
- b. Every 2 years**
- c. Every 3 years**
- d. Every 4 years**



## Question 32

**How often must importers of nonhuman primates register with the CDC?**

- a. Every year**
- b. Every 2 years**
- c. Every 3 years**
- d. Every 4 years**

**Answer: b.**

**Reference: LAM 2nd edition, pg 30.**



## Question 33

**The Animal Welfare Act authorizes the USDA to develop regulations based on the act. The USDA is required to publish any new regulations or changes in existing regulations in the Federal Register. The public is allowed a specific time period during which to comment. What is the allowed time period?**

- a. 30 days**
- b. 60 days**
- c. 90 days**
- d. 120 days**



## Question 33

**The Animal Welfare Act authorizes the USDA to develop regulations based on the act. The USDA is required to publish any new regulations or changes in existing regulations in the Federal Register. The public is allowed a specific time period during which to comment. What is the allowed time period?**

- a. 30 days**
- b. 60 days**
- c. 90 days**
- d. 120 days**

**Answer: b.**

**Reference: LAM 2nd edition, pg 21.**



## Question 34

**Dogs and cats acquired by a dealer or exhibitor from a contract animal pound or shelter must be held for at least how many days?**

- a. 10 days**
- b. 7 days**
- c. 5 days**
- d. 3 days**



## Question 34

**Dogs and cats acquired by a dealer or exhibitor from a contract animal pound or shelter must be held for at least how many days?**

- a. 10 days**
- b. 7 days**
- c. 5 days**
- d. 3 days**

**Answer: a.**

**Reference: LAM 2nd edition, pg 21.**



## Question 35

**Which of the following is NOT true regarding use of tricaine methane sulfonate (MS 222) when used for euthanasia?**

- a. A concentration of  $\geq 250$  mg/L is recommended and fish should be left in solution for at least 10 minutes**
- b. There is a 21-day withdrawal time for MS 222**
- c. MS 222 solutions can be highly basic and should be buffered HCl before use with animals**
- d. MS 222 is appropriate for euthanasia of amphibians as well as fish species.**



## Question 35

**Which of the following is NOT true regarding use of tricaine methane sulfonate (MS 222) when used for euthanasia?**

- a. A concentration of  $\geq 250$  mg/L is recommended and fish should be left in solution for at least 10 minutes**
- b. There is a 21-day withdrawal time for MS 222**
- c. MS 222 solutions can be highly basic and should be buffered HCl before use with animals**
- d. MS 222 is appropriate for euthanasia of amphibians as well as fish species.**

**Answer: c.**

**Reference: 2000 AVMA Panel of Euthanasia. pg 680**



## Question 36

**When working with *Mycobacterium tuberculosis*, liquification and concentration of sputa for acid-fast staining may be conducted safely on the open bench \_\_\_\_\_ (pick the best answer that makes this a TRUE statement).**

- a. By first treating the specimen in a Class I or II safety hood with an equal volume of 5% sodium hypochlorite solution (household bleach) and waiting 15 minutes**
- b. Refrigeration prior to use at  $<4^{\circ}\text{C}$**
- c. Without any prior treatment or precautions**
- d. When flame drying slides only**



## Question 36

**When working with *Mycobacterium tuberculosis*, liquification and concentration of sputa for acid-fast staining may be conducted safely on the open bench \_\_\_\_\_ (pick the best answer that makes this a TRUE statement).**

- a. By first treating the specimen in a Class I or II safety hood with an equal volume of 5% sodium hypochlorite solution (household bleach) and waiting 15 minutes**
- b. Refrigeration prior to use at  $<4^{\circ}\text{C}$**
- c. Without any prior treatment or precautions**
- d. When flame drying slides only**

**Answer: a.**

**Reference: BMBL, Agent Summary Statements, Bacteria. pg 105**



## Question 37

**UV-B or UV-C radiation should not be used in the presence of chlorinated solvents because of the possibility of producing what potent lung irritant?**

- a. Ammonia**
- b. Trichloroethanol**
- c. Chlorofluorocarbons**
- d. Phosgene**



## Question 37

**UV-B or UV-C radiation should not be used in the presence of chlorinated solvents because of the possibility of producing what potent lung irritant?**

- a. Ammonia**
- b. Trichloroethanol**
- c. Chlorofluorocarbons**
- d. Phosgene**

**Answer: d.**

**Reference: Occupational Health and Safety in the Care and Use of Research Animals, pg. 37.**



## Question 38

**According to the National Research Council, which individual should be responsible for overseeing and delegating responsibilities for the Occupational Health and Safety Program?**

- a. A medical doctor**
- b. A principal investigator**
- c. Attending veterinarian**
- d. The senior official of an institution**



## Question 38

**According to the National Research Council, which individual should be responsible for overseeing and delegating responsibilities for the Occupational Health and Safety Program?**

- a. A medical doctor**
- b. A principal investigator**
- c. Attending veterinarian**
- d. The senior official of an institution**

**Answer: d.**

**Reference: NRC. Occupational Health and Safety in the Care and Use of Research Animals, pg 8.**



## Question 39

**When transporting by surface vehicle, up to what age can litters of puppies or kittens of comparable size be transported together?**

- a. 20 weeks**
- b. 12 weeks**
- c. 8 weeks**
- d. 5 weeks**



## Question 39

**When transporting by surface vehicle, up to what age can litters of puppies or kittens of comparable size be transported together?**

- a. 20 weeks**
- b. 12 weeks**
- c. 8 weeks**
- d. 5 weeks**

**Answer: c.**

**Reference: AWA 3.14, g, 2.**



## Question 40

**The minimum height of a primary enclosure acquired after August 15, 1990, for guinea pigs in inches is?**

- a. 10**
- b. 9**
- c. 8**
- d. 7**



## Question 40

**The minimum height of a primary enclosure acquired after August 15, 1990, for guinea pigs in inches is?**

- a. 10**
- b. 9**
- c. 8**
- d. 7**

**Answer: d.**

**Reference: AWA, 3.28, c, 1,ii.**



## Question 41

**A 5 square foot primary enclosure would be appropriate for a, individual rabbit up to \_\_\_\_ pounds?**

- a. 9**
- b. 10**
- c. 12**
- d. 14**



## Question 41

**A 5 square foot primary enclosure would be appropriate for a, individual rabbit up to \_\_\_\_ pounds?**

- a. 9**
- b. 10**
- c. 12**
- d. 14**

**Answer: c.**

**Reference: AWA, 3.53, c, 2.**



## Question 42

**When more than one nonhuman primate is housed in a primary enclosure, the minimum space requirement for the enclosure is the\_\_\_\_\_ ?**

- a. Sum of the minimum requirements for each individual**
- b. Square of the minimum requirements for each individual**
- c. Square of the minimum requirements for each individual multiplied by 0.9**
- d. Sum of the minimum requirements for each individual multiplied by 0.9**



## Question 42

**When more than one nonhuman primate is housed in a primary enclosure, the minimum space requirement for the enclosure is the\_\_\_\_\_ ?**

- a. Sum of the minimum requirements for each individual**
- b. Square of the minimum requirements for each individual**
- c. Square of the minimum requirements for each individual multiplied by 0.9**
- d. Sum of the minimum requirements for each individual multiplied by 0.9**

**Answer: a.**

**Reference: AWA, 3.80, b.**



## Question 43

**Pens, runs, and outdoor housing areas with material that cannot be sanitized by steam under pressure or 180 degrees water and soap or thorough cleaning of organic material followed by clean water spray (i.e. gravel, sand, grass, etc.) (pick the best answer to make this statement true)**

- a. Must be sanitized with 2% household bleach**
- b. Are exempt from routine sanitation**
- c. Must be sanitized by removal of contaminated material as necessary**
- d. Must be sanitized by covering contaminated material with >2'' of additional material**



## Question 43

**Pens, runs, and outdoor housing areas with material that cannot be sanitized by steam under pressure or 180 degrees water and soap or thorough cleaning of organic material followed by clean water spray (i.e. gravel, sand, grass, etc.) (pick the best answer to make this statement true)**

- a. Must be sanitized with 2% household bleach**
- b. Are exempt from routine sanitation**
- c. Must be sanitized by removal of contaminated material as necessary**
- d. Must be sanitized by covering contaminated material with >2" of additional material**

**Answer: c.**

**Reference: AWA, 3.11, 4.**



## Question 44

**What does this safety symbol represent?**

- a. Carcinogens**
- b. Laser**
- c. Biohazard**
- d. Irradiated food**





## Question 44

**What does this safety symbol warn against?**

- a. Carcinogens**
- b. Laser**
- c. Biohazard**
- d. Irradiated food**

**Answer: d.**

**Reference: FDA (Codex Alimentarius); Feed bags**





## Question 45

**In accordance with the Animal Welfare Act, for how long must records that relate directly to activities approved by the IACUC be maintained beyond the duration of the activity?**

- a. Duration of the activity only**
- b. Duration plus one year**
- c. Duration plus two years**
- d. Duration plus 3 years**



## Question 45

**In accordance with the Animal Welfare Act, for how long must records that relate directly to activities approved by the IACUC be maintained beyond the duration of the activity?**

- a. Duration of the activity only**
- b. Duration plus one year**
- c. Duration plus two years**
- d. Duration plus 3 years**

**Answer: d.**

**Reference: LAM 2nd edition, pg 23.**



## Question 46

**According to the *Guide*, what is the maximum recommended temperature for storing purified and chemically defined diets?**

- a. 4° C
- b. 12° C
- c. 18° C
- d. 21° C



## Question 46

**According to the *Guide*, what is the maximum recommended temperature for storing purified and chemically defined diets?**

- a. 4° C
- b. 12° C
- c. 18° C
- d. 21° C

**Answer: a.**

**Reference: Guide, 1996, pg 39.**



## Question 47

**According to the *Guide*, what is the recommended dry-bulb temperature for housing rabbits?**

- a. 64-84 F**
- b. 61-72 F**
- c. 62-75 F**
- d. 61-81 F**



## Question 47

**According to the *Guide*, what is the recommended dry-bulb temperature for housing rabbits?**

- a. 64-84 F**
- b. 61-72 F**
- c. 62-75 F**
- d. 61-81 F**

**Answer: b.**

**Reference: Guide, 1996, pg 32.**



## Question 48

**Temperature control systems should be capable of maintaining temperatures within \_\_\_\_\_ degrees of the set point between 18 and 29° C. Fill in the blank.**

- a.  $\pm 4^{\circ}\text{C}$
- b.  $\pm 3^{\circ}\text{C}$
- c.  $\pm 2^{\circ}\text{C}$
- d.  $\pm 1^{\circ}\text{C}$



## Question 48

**Temperature control systems should be capable of maintaining temperatures within \_\_\_\_\_ degrees of the set point between 18 and 29° C. Fill in the blank.**

- a.  $\pm 4^{\circ}\text{C}$**
- b.  $\pm 3^{\circ}\text{C}$**
- c.  $\pm 2^{\circ}\text{C}$**
- d.  $\pm 1^{\circ}\text{C}$**

**Answer: d.**

**Reference: LAM 2nd edition, pg 925 and the *Guide* pg 75.**



## Question 49

**Which of the following is NOT true regarding the major mouse allergen Mus m 1?**

- a. Mus m 1 is produced in the liver and saliva**
- b. Mus m 1 is highly secreted in the urine**
- c. Female mice secrete nearly twice as much Mus m 1 as male mice**
- d. Mus m 1 has 80% amino acid sequence homology with Rat n1 B**



## Question 49

**Which of the following is NOT true regarding the major mouse allergen Mus m 1?**

- a. Mus m 1 is produced in the liver and saliva**
- b. Mus m 1 is highly secreted in the urine**
- c. Female mice secrete nearly twice as much Mus m 1 as male mice**
- d. Mus m 1 has 80% amino acid sequence homology with Rat n1 B**

**Answer c.**

**Reference: Occ. Health and Safety in the Care and Use of Res. Animals, pg 56.**



## Question 50

**According to the AWA, Class 'B' dealers may not obtain random source dogs and cats from which of the following sources?**

- a. Licensed dealers**
- b. Hobby breeders**
- c. Shelters owned and operated by a state, county or city**
- d. Humane shelters or contract pounds**



## Question 50

**According to the AWA, Class 'B' dealers may not obtain random source dogs and cats from which of the following sources?**

- a. Licensed dealers**
- b. Hobby breeders**
- c. Shelters owned and operated by a state, county or city**
- d. Humane shelters or contract pounds**

**Answer: b.**

**Reference: AWA 2.132,a.**



## Question 51

**An official USDA identification tag may not be used to identify more than one animal or reused within a \_\_\_\_\_ year period. (Fill in the blank)**

- a. 7**
- b. 5**
- c. 3**
- d. 2**



## Question 51

**An official USDA identification tag may not be used to identify more than one animal or reused within a \_\_\_\_\_ year period. (Fill in the blank)**

- a. 7**
- b. 5**
- c. 3**
- d. 2**

**Answer: b.**

**Reference: AWA 2.38, g, 6.**



## Question 52

**For rabbits housed outdoors, artificial cooling shall be provided when the outside temperature exceeds \_\_\_\_\_ ?**

- a. 75° F**
- b. 80° F**
- c. 85° F**
- d. 90° F**



## Question 52

**For rabbits housed outdoors, artificial cooling shall be provided when the outside temperature exceeds \_\_\_\_\_ ?**

- a. 75° F**
- b. 80° F**
- c. 85° F**
- d. 90° F**

**Answer: d.**

**Reference: AWA 3.52, a**



## Question 53

**For rabbits housed outdoors, shelter shall be provided when outside temperatures fall below \_\_\_\_\_?**

- a. 30 °F**
- b. 35° F**
- c. 40° F**
- d. 45° F**



## Question 53

**For rabbits housed outdoors, shelter shall be provided when outside temperatures fall below \_\_\_\_\_?**

- a. 30 °F**
- b. 35° F**
- c. 40° F**
- d. 45° F**

**Answer: c.**

**Reference: AWA 3.52, a**



## Question 54

**The institution must appoint an Institutional Biosafety Committee (IBC) that must have at least \_\_\_\_ members who have experience in recombinant DNA technology, biosafety, and physical containment, with at least \_\_\_\_ members not affiliated with the institution who represent the general interest of the surrounding community.**

- a. 4, 3
- b. 3, 3
- c. 5, 2
- d. 3, 2



## Question 54

**The institution must appoint an Institutional Biosafety Committee (IBC) that must have at least \_\_\_\_ members who have experience in recombinant DNA technology, biosafety, and physical containment, with at least \_\_\_\_ members not affiliated with the institution who represent the general interest of the surrounding community.**

- a. 4, 3
- b. 3, 3
- c. 5, 2
- d. 3, 2

**Answer: c.**

**Reference: LAM 2nd edition, p31.**



## Question 55

**Plastic or fiberglass-coated wire floors are now required if the wire is less than or equal to \_\_\_\_\_ inch in diameter.**

- a. 1 inch**
- b.  $\frac{1}{2}$  inch**
- c.  $\frac{1}{4}$  inch**
- d.  $\frac{1}{8}$  inch**



## Question 55

**Plastic or fiberglass-coated wire floors are now required if the wire is less than or equal to \_\_\_\_\_ inch in diameter.**

- a. 1 inch**
- b. 1/2 inch**
- c. 1/4 inch**
- d. 1/8 inch**

**Answer: d.**

**Reference: LAM 2nd edition, p 937.**



## Question 56

**According to the 2000 AVMA panel report on euthanasia, what is the best choice for equine euthanasia?**

- a. Captive bolt**
- b. Succinylcholine**
- c. Pentobarbital or some pentobarbital combination**
- d. Gunshot**



## Question 56

**According to the 2000 AVMA panel report on euthanasia, what is the best choice for equine euthanasia?**

- a. Captive bolt**
- b. Succinylcholine**
- c. Pentobarbital or some pentobarbital combination**
- d. Gunshot**

**Answer: c.**

**Reference: 2000 AVMA panel report on euthanasia. pg 685**



## Question 57

**Thoracic (cardiopulmonary) decompression is an appropriate physical technique of euthanasia in the field for which of the following?**

- a. Diving birds**
- b. Voles**
- c. Small to medium free-ranging birds**
- d. Mustelids**



## Question 57

**Thoracic (cardiopulmonary) decompression is an appropriate physical technique of euthanasia in the field for which of the following?**

- a. Diving birds**
- b. Voles**
- c. Small to medium free-ranging birds**
- d. Mustelids**

**Answer: c.**

**Reference: 2000 AVMA panel report on euthanasia. pg. 683**



## Question 58

**What must occur prior to using electrocution as a method of euthanasia for dogs, sheep or foxes?**

- a. Physical restraint secured**
- b. Animal is rendered unconscious**
- c. Head must be moistened**
- d. Flammable materials removed from the premises**



## Question 58

**What must occur prior to using electrocution as a method of euthanasia for dogs, sheep or foxes?**

- a. Physical restraint secured**
- b. Animal is rendered unconscious**
- c. Head must be moistened**
- d. Flammable materials removed from the premises**

**Answer: b.**

**Reference: 2000 AVMA panel report on euthanasia. pg. 683**



## Question 59

**According to the 2000 AVMA panel report on euthanasia, what is one of the stated disadvantages of potassium chloride as a method of euthanasia?**

- a. Rippling of muscle tissue and clonic spasms may occur**
- b. Use in the field may leave highly toxic carcasses for scavengers**
- c. Potassium chloride is difficult to obtain**
- d. Potassium chloride use is required in conjunction with a physical method**



## Question 59

**What is one of the stated disadvantages of potassium chloride as a method of euthanasia?**

- a. Rippling of muscle tissue and clonic spasms may occur**
- b. Use in the field may leave highly toxic carcasses for scavengers**
- c. Potassium chloride is difficult to obtain**
- d. Potassium chloride use is required in conjunction with a physical method**

**Answer: a.**

**Reference: 2000 AVMA panel report on euthanasia. pg. 681**



## Question 60

**The minimum interior height of a rabbit enclosure must be?**

- a. 18 in**
- b. 16 in**
- c. 14 in**
- d. 12 in**



## Question 60

**The minimum interior height of a rabbit enclosure must be?**

- a. 18 in**
- b. 16 in**
- c. 14 in**
- d. 12 in**

**Answer: c.**

**Reference: AWA 3.53, e, 2.**



## Question 61

**Primary enclosures for rabbits shall be sanitized at least?**

- a. Once a day**
- b. Once every week**
- c. Once every other week**
- d. Once every 30 days**



## Question 61

**Primary enclosures for rabbits shall be sanitized at least?**

- a. Once a day**
- b. Once every week**
- c. Once every other week**
- d. Once every 30 days**

**Answer: d.**

**Reference: AWA 3.56, b, 1.**



## Question 62

**Not more than \_\_\_\_ live rabbits shall be transported in the same primary enclosure.**

- a. 8**
- b. 10**
- c. 12**
- d. 15**



## Question 62

**Not more than \_\_\_\_ live rabbits shall be transported in the same primary enclosure.**

- a. 8**
- b. 10**
- c. 12**
- d. 15**

**Answer: d.**

**Reference: AWA, 3.61.**



## Question 63

**Minor allergenic components have been found in rabbit \_\_\_\_\_ and \_\_\_\_\_?**

- a. Fur and urine**
- b. Saliva and urine**
- c. Fur and saliva**
- d. Saliva and serum**



## Question 63

**Minor allergenic components have been found in rabbit \_\_\_\_\_ and \_\_\_\_\_?**

- a. Fur and urine**
- b. Saliva and urine**
- c. Fur and saliva**
- d. Saliva and serum**

**Answer: b.**

**Reference: Occ. Health and Safety in the Care and Use of Res. Animals, pg 56.**



## Question 64

**The major cat allergen is?**

- a. Cat e 1*
- b. Sofa 1*
- c. Boh c 2*
- d. Fel d 1*



## Question 64

**The major cat allergen is?**

- a. Cat e 1*
- b. Sofa 1*
- c. Boh c 2*
- d. Fel d 1*

**Answer: d.**

**Reference: Occ. Health and Safety in the Care and Use of Res. Animals, pg 57.**



## Question 65

**The minimum height for perimeter fencing of nonhuman primate housing is?**

- a. 5 ft**
- b. 6 ft**
- c. 10 ft**
- d. 12 ft**



## Question 65

**The minimum height for perimeter fencing of nonhuman primate housing is?**

- a. 5 ft**
- b. 6 ft**
- c. 10 ft**
- d. 12 ft**

**Answer: b.**

**Reference: AWA 3.78,d.**



## Question 66

**Innovative primary enclosures for nonhuman primates that do not precisely meet the specified requirements but do provide the animals with sufficient space and the opportunity to express species-typical behavior may be used when approved by the \_\_\_\_\_ at a research facility.**

- a. Attending veterinarian**
- b. IACUC**
- c. Institutional official**
- d. Principal investigator's department Chair**



## Question 66

**Innovative primary enclosures for nonhuman primates that do not precisely meet the specified requirements but do provide the animals with sufficient space and the opportunity to express species-typical behavior may be used when approved by the \_\_\_\_\_ at a research facility.**

- a. Attending veterinarian**
- b. IACUC**
- c. Institutional official**
- d. Principal investigator's department Chair**

**Answer: b.**

**Reference: AWA 3.8,c.**



## Question 67

**Fire alarms in a rodent housing facility should be selected to operate between?**

- a. 100-200 kHz**
- b. 400-500 kHz**
- c. 900-1000 kHz**
- d. 1200-1300 kHz**



## Question 67

**Fire alarms in a rodent housing facility should be selected to operate between?**

- a. 100-200 kHz**
- b. 400-500 kHz**
- c. 900-1000 kHz**
- d. 1200-1300 kHz**

**Answer: b.**

**Reference: LAM 2nd edition, pg 930.**



## Question 68

**According to the *Guide*, light at the cage level for animals that have been shown to be susceptible to phototoxic retinopathy should be between?**

- a. 80-90 lux**
- b. 130-325 lux**
- c. 425-650 lux**
- d. 900-1000 lux**



## Question 68

**According to the *Guide*, light at the cage level for animals that have been shown to be susceptible to phototoxic retinopathy should be between?**

- a. 80-90 lux**
- b. 130-325 lux**
- c. 425-650 lux**
- d. 900-1000 lux**

**Answer: b.**

**Reference: The Guide, pg 35.**



## Question 69

**According to the *Guide*, cage-ceiling design to enhance brachiating movement should be employed for this species?**

- a. Cebidae**
- b. Papio**
- c. Hylobates**
- d. Callitrichidae**



## Question 69

**According to the *Guide*, cage-ceiling design to enhance brachiating movement should be employed for this species?**

- a. Cebidae**
- b. Papio**
- c. Hylobates**
- d. Callitrichidae**

**Answer: c.**

**Reference: Guide, pg 29.**



## Question 70

**What does the acronym ASHRAE stand for?**

- a. American Society for Heating, Refrigeration, and Air Conditioning Engineers**
- b. American Society for Hallway, Rack and Automatic Washer Engineers**
- c. Automated Systems for Heating, Refrigeration, and Air Conditioning Entities**
- d. Associated Service for Heating, Refrigeration, and Air Supply Engineers**



## Question 70

**What does the acronym FIFRA stands for\_\_\_\_\_?**

- a. American Society for Heating, Refrigeration, and Air Conditioning Engineers**
- b. American Society for Hallway, Rack and Automatic Washer Engineers**
- c. Automated Systems for Heating, Refrigeration, and Air Conditioning Entities**
- d. Associated Service for Heating, Refrigeration, and Air Supply Engineers**

**Answer: a.**

**Reference: Handbook of Facilities Planning Vol. 2  
Laboratory Animal Facilities pg. 308**



## Question 71

**Routine diagnostic work with clinical HIV specimens can be done safely at?**

- a. BSL 4**
- b. BSL 3**
- c. BSL 2**
- d. BSL 1**



## Question 71

**Routine diagnostic work with clinical HIV specimens can be done safely at?**

- a. BSL 4**
- b. BSL 3**
- c. BSL 2**
- d. BSL 1**

**Answer: c.**

**Reference: BMBL pg. 171**



## Question 72

**Each research facility must submit an annual report to the USDA on or before what date?**

- a. January 1**
- b. January 15**
- c. March 22**
- d. December 1**



## Question 72

**Each research facility must submit an annual report to the USDA on or before what date?**

- a. January 1**
- b. January 15**
- c. March 22**
- d. December 1**

**Answer: d.**

**Reference: LAM 2nd edition, pg 23.**



## Question 73

**The annual report that is submitted should provide information relevant to the preceding fiscal year covering what time period?**

- a. Dec.1-Nov. 30**
- b. Oct. 1-Sept. 30**
- c. July 1-June 30**
- d. Jan.1- Dec 30**



## Question 73

**The annual report that is submitted should provide information relevant to the preceding fiscal year covering what time period?**

- a. Dec.1-Nov. 30**
- b. Oct. 1-Sept. 30**
- c. July 1-June 30**
- d. Jan.1- Dec 30**

**Answer: b.**

**Reference: LAM 2nd edition, pg 23.**



## Question 74

**According to the *Guide*, how often should small animals, such as rodents, on fluid restriction be weighed?**

- a. At least daily**
- b. At least every other day**
- c. At least twice a week**
- d. At least once a week**



## Question 74

**According to the *Guide*, how often should small animals, such as rodents, on fluid restriction be weighed?**

- a. At least daily**
- b. At least every other day**
- c. At least twice a week**
- d. At least once a week**

**Answer: d.**

**Reference: Guide, pg 12.**



## Question 75

**According to the AWA, the formula for calculating the space requirement for a dog is?**

- a. [(The sum of the length of the dog in inches plus 6) times 2] then divided by 144**
- b. [(The sum of the length of the dog in inches plus 4) squared] then divided by 124**
- c. [(The sum of the length of the dog in inches plus 6) squared] then divided by 144**
- d. (The length of the dog times the height of the tallest dog) divided by 12**



## Question 75

**According to the AWA, the formula for calculating the space requirement for a dog is?**

- a. [(The sum of the length of the dog in inches plus 6) times 2] then divided by 144
- b. [(The sum of the length of the dog in inches plus 4) squared] then divided by 124
- c. [(The sum of the length of the dog in inches plus 6) squared] then divided by 144
- d. (The length of the dog times the height of the tallest dog) divided by 12

**Answer: c.**

**Reference: AWA, 3.6, c, 1.**



## Question 76

**According to the AWA, to what weight group do male macaques and African species of nonhuman primates belong?**

- a. Group 1**
- b. Group 2**
- c. Group 3**
- d. Group 4**
- e. Group 5**



## Question 76

**According to the AWA, to what weight group do male macaques and African species of nonhuman primates belong?**

- a. Group 1**
- b. Group 2**
- c. Group 3**
- d. Group 4**
- e. Group 5**

**Answer: d.**

**Reference: AWA, 3.80, footnote 3 and 4.**



## Question 77

**What is the maximum number of adult, nonconditioned, compatible cats that may be housed in the same primary enclosure?**

- a. 4**
- b. 8**
- c. 12**
- d. 16**



## Question 77

**What is the maximum number of adult, nonconditioned, compatible cats that may be housed in the same primary enclosure?**

- a. 4**
- b. 8**
- c. 12**
- d. 16**

**Answer: c.**

**Reference: AWA 3.6, b, 2.**



## Question 78

The *Guide* recommends that corridors should be how wide?

- a. 5-7 ft
- b. 6-8 ft
- c. 7-9 ft
- d. 8-10 ft



## Question 78

The *Guide* recommends that corridors should be how wide?

- a. 5-7 ft
- b. 6-8 ft
- c. 7-9 ft
- d. 8-10 ft

**Answer: b.**

**Reference: Guide, pg 73.**



## Question 79

According to the *Guide*, the appropriate height of a rat cage should be?

- a. As tall as the tallest rat when standing
- b. 6 inches
- c. 7 inches
- d. 8 inches



## Question 79

**According to the *Guide*, the appropriate height of a rat cage should be?**

- a. As tall as the tallest rat when standing**
- b. 6 inches**
- c. 7 inches**
- d. 8 inches**

**Answer: c.**

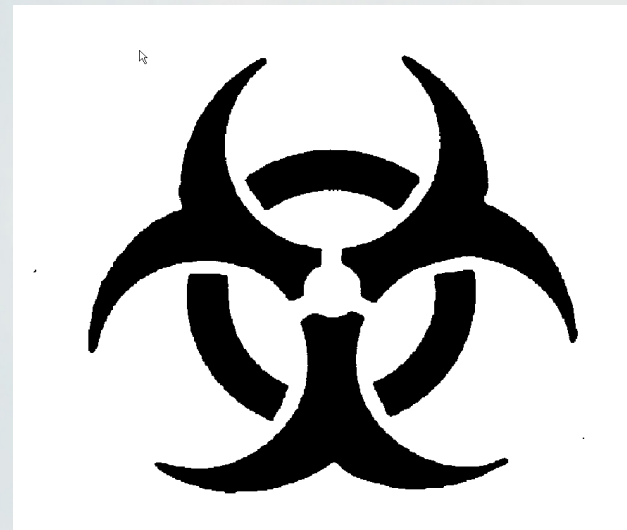
**Reference: Guide, pg 27, table 2.1.**



## Question 80

**What does this symbol represent?**

- a. Biohazards**
- b. Radiation**
- c. Steam**
- d. Lasers**





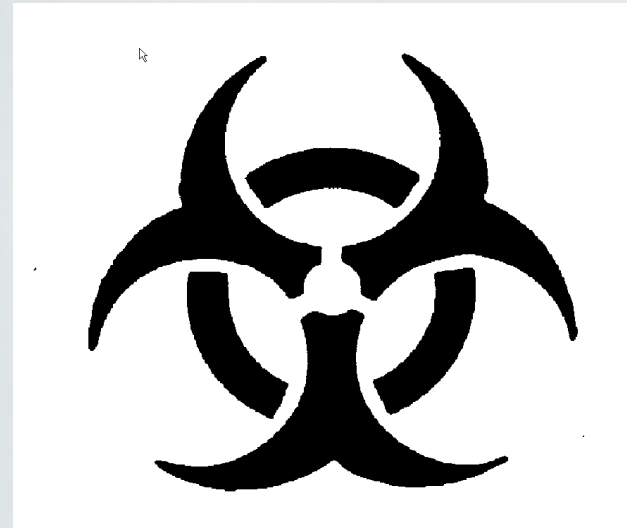
## Question 80

**What does this symbol represent?**

- a. Biohazards**
- b. Radiation**
- c. Steam**
- d. Lasers**

**Answer: a.**

**Reference: BMBL Cover**







# Upcoming Rules, Regulations, Policies

PHS-OLAW website-FAQ's-

<http://grants.nih.gov/grants/olaw/faqs.htm>



Office of  
Extramural Research  
National Institutes of Health



Contact Us | Print Version

Search:  Go

Advanced Search | Site Map

Home | About Grants | Funding | Forms & Deadlines | Grants Policy | News & Events | About OER | NIH Home

**Grants Policy**  
Policy & Guidance  
Compliance & Oversight  
Research Involving Human Subjects  
Office of Laboratory Animal Welfare (OLAW)  
Animals in Research  
Peer Review Policies & Practices  
Intellectual Property Policy  
Invention Reporting (iEdison)  
**Global OER Resources**  
Glossary & Acronyms  
Frequently Used Links  
Frequent Questions

## PHS Policy on Humane Care and Use of Laboratory Animals

### Frequently Asked Questions

Initial Posting: September 11, 2006  
Last Revised: January 16, 2009

**On This Page:**

- [Applicability of the PHS Policy](#)
- [IACUC Composition, Functions and Authority](#)
- [Institutional Reporting to OLAW](#)
- [Protocol Review](#)
- [Program Review and Inspection of Facilities](#)
- [Animal Use and Management](#)
- [Institutional Responsibilities](#)

OLAW welcomes comments on any of its policy guidance, [click here for more information](#).

**Disclaimer:**  
OLAW develops and monitors, as well as exercises compliance oversight relative to the Public Health Service Policy on Humane Care and Use of Laboratory Animals (the "PHS Policy"). One of OLAW's primary functions is to advise awarding units and awardee institutions concerning the implementation of the PHS Policy. OLAW often provides this advice by responding to policy-related questions submitted by such units and institutions. The following FAQs provide guidance that represents OLAW's current thinking on these topics. This guidance is based on OLAW's experience with the subject matter and draws on best practices followed by the biomedical community regarding the use of research animals. Unless specific statutory or regulatory requirements are cited, the FAQs should be viewed as recommendations in that an institution may use an alternative approach if the approach satisfies the requirements of the PHS Policy.

The USDA Animal and Plant Health Inspection Service (APHIS), Animal Care has reviewed and concurs with the guidance provided in these FAQs where applicable.

### Applicability of the PHS Policy

- [Should institutions apply the PHS Policy to all animal activities regardless of the source of funding?](#)
- [Does the PHS Policy apply to the production of custom antibodies, or to the purchase of surgically modified animals?](#)



# Upcoming Rules, Regulations, Policies

## PHS-OLAW website-policy & guidance letters

Office of Extramural Research  
National Institutes of Health

Search:

Home About Grants Funding Forms & Deadlines **Grants Policy** News & Events About OER NIH Home

**Grants Policy**  
Policy & Guidance  
Compliance & Oversight  
Research Involving Human Subjects  
Office of Laboratory Animal Welfare (OLAW)  
Animals in Research  
Peer Review Policies & Practices  
Intellectual Property Policy  
Invention Reporting (iEdison)

**Global OER Resources**  
Glossary & Acronyms  
Frequently Used Links  
Frequent Questions

### Grants Policy & Guidance

**On This Page:**

- [Grant Policy Statements](#)
- [General Policy Notices](#)
- [Grant Awards & NIH Appropriations](#)
- [Policy Resources](#)
- [Other Guidance Resources](#)
- [Related Links - Sites of Interest](#)

### Grants Policy Statements

- [NIH Grants Policy Statement - 12/01/2003](#) - Effective for budget periods beginning on or after 12/1/2003.
- Prior version: [03/01/2001](#)
- Archive of Inactive Versions: [10/01/1998](#), [04/01/1994](#)

### General Policy Notices

- **2009**

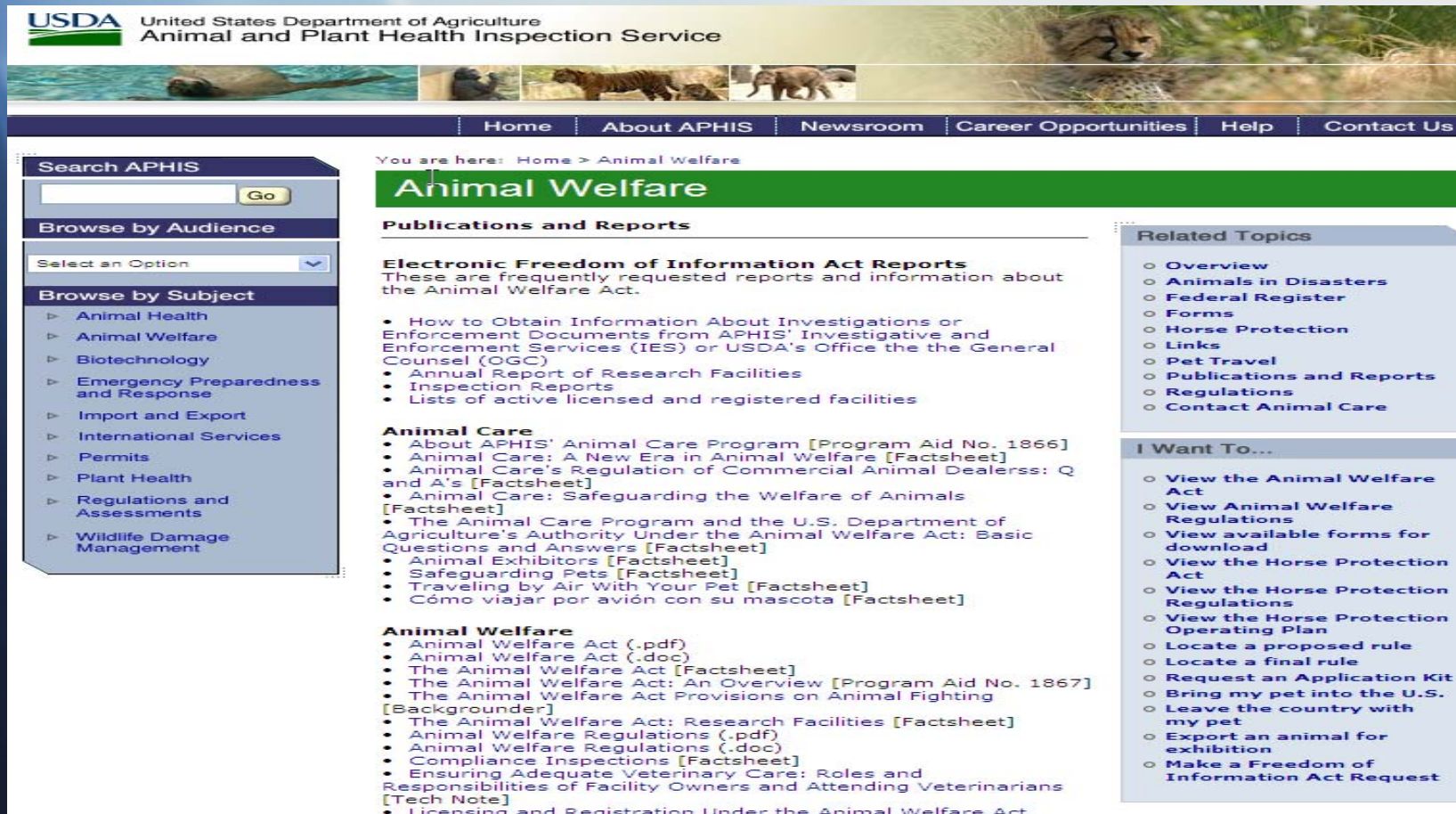
March 27	<a href="#">Ruth L. Kirschstein National Research Service Award (NRSA) Stipend and Other Budgetary Levels Effective for Fiscal Year 2009</a>
March 27	<a href="#">Enhancing Peer Review: The NIH Announces Consolidation of Review Criteria for Institutional Research Training Grant Applications (T32) Submitted for FY 2010 Funding</a>
March 27	<a href="#">NIH Requires Mandatory Use of the eRA Commons Financial Conflict of Interest (FCOI) Module beginning July 1, 2009 for NIH-funded Grants and/or Cooperative Agreements</a>
March 19	<a href="#">Salary Limitation on Grants, Cooperative Agreements, and Contracts</a>
March 19	<a href="#">Notice of Legislative Mandates in Effect for FY2009</a>
March 19	<a href="#">The Omnibus Appropriations Act of 2009 Makes the NIH Public Access Policy Permanent</a>
March 18	<a href="#">NIH Fiscal Policy for Grant Awards - FY 2009</a>
March 16	<a href="#">1-Day Extension for Grant Applicants Submitting for Opportunities with Due Dates of March 16, 2009</a>
March 2	<a href="#">Delays in Grant Application Submission due to Snow Storm March 2009</a>
February 4	<a href="#">NIH Encourages Applicants to Take Advantage of Subscription-based Electronic Mailing Lists for Updates on Electronic Applications and the eRA Commons</a>
January 28	<a href="#">Error-Correction Window Extended for All Electronic Applications with Submission Deadlines through the End of February, 2009</a>
January 28	<a href="#">Adobe-Based Grant Application Forms Now Available for All NIH Funding Opportunity Announcements Requiring Electronic Submission</a>



# Upcoming Rules, Regulations, Policies

## USDA-publications and reports

[http://www.aphis.usda.gov/animal\\_welfare/publications\\_and\\_reports.shtml](http://www.aphis.usda.gov/animal_welfare/publications_and_reports.shtml)



The screenshot shows the USDA APHIS website. At the top is the USDA logo and the text "United States Department of Agriculture Animal and Plant Health Inspection Service". Below this is a navigation bar with links: Home, About APHIS, Newsroom, Career Opportunities, Help, and Contact Us. A search bar is on the left, and a "Browse by Audience" dropdown is below it. The main content area is titled "Animal Welfare" and "Publications and Reports". It features three main sections: "Electronic Freedom of Information Act Reports", "Animal Care", and "Animal Welfare". Each section contains a list of links to various reports, factsheets, and regulations. On the right side, there are two sidebars: "Related Topics" and "I Want To...". The "Related Topics" sidebar lists links like Overview, Animals in Disasters, Federal Register, Forms, Horse Protection, Links, Pet Travel, Publications and Reports, Regulations, and Contact Animal Care. The "I Want To..." sidebar lists links like View the Animal Welfare Act, View Animal Welfare Regulations, View available forms for download, View the Horse Protection Act, View the Horse Protection Regulations, View the Horse Protection Operating Plan, Locate a proposed rule, Locate a final rule, Request an Application Kit, Bring my pet into the U.S., Leave the country with my pet, Export an animal for exhibition, and Make a Freedom of Information Act Request.

USDA United States Department of Agriculture  
Animal and Plant Health Inspection Service

Home About APHIS Newsroom Career Opportunities Help Contact Us

You are here: Home > Animal Welfare

## Animal Welfare

### Publications and Reports

#### Electronic Freedom of Information Act Reports

These are frequently requested reports and information about the Animal Welfare Act.

- How to Obtain Information About Investigations or Enforcement Documents from APHIS' Investigative and Enforcement Services (IES) or USDA's Office the the General Counsel (OGC)
- Annual Report of Research Facilities
- Inspection Reports
- Lists of active licensed and registered facilities

#### Animal Care

- About APHIS' Animal Care Program [Program Aid No. 1866]
- Animal Care: A New Era in Animal Welfare [Factsheet]
- Animal Care's Regulation of Commercial Animal Dealers: Q and A's [Factsheet]
- Animal Care: Safeguarding the Welfare of Animals [Factsheet]
- The Animal Care Program and the U.S. Department of Agriculture's Authority Under the Animal Welfare Act: Basic Questions and Answers [Factsheet]
- Animal Exhibitors [Factsheet]
- Safeguarding Pets [Factsheet]
- Traveling by Air With Your Pet [Factsheet]
- Cómo viajar por avión con su mascota [Factsheet]

#### Animal Welfare

- Animal Welfare Act (.pdf)
- Animal Welfare Act (.doc)
- The Animal Welfare Act [Factsheet]
- The Animal Welfare Act: An Overview [Program Aid No. 1867]
- The Animal Welfare Act Provisions on Animal Fighting [Backgrounder]
- The Animal Welfare Act: Research Facilities [Factsheet]
- Animal Welfare Regulations (.pdf)
- Animal Welfare Regulations (.doc)
- Compliance Inspections [Factsheet]
- Ensuring Adequate Veterinary Care: Roles and Responsibilities of Facility Owners and Attending Veterinarians [Tech Note]
- Licensing and Registration Under the Animal Welfare Act

#### Related Topics

- Overview
- Animals in Disasters
- Federal Register
- Forms
- Horse Protection
- Links
- Pet Travel
- Publications and Reports
- Regulations
- Contact Animal Care

#### I Want To...

- View the Animal Welfare Act
- View Animal Welfare Regulations
- View available forms for download
- View the Horse Protection Act
- View the Horse Protection Regulations
- View the Horse Protection Operating Plan
- Locate a proposed rule
- Locate a final rule
- Request an Application Kit
- Bring my pet into the U.S.
- Leave the country with my pet
- Export an animal for exhibition
- Make a Freedom of Information Act Request



## *Upcoming Rules, Regulations, Policies*

**NABR, FBR, AMP-obtain electronic notifications (emails); monitor for stakeholder impact**

**<http://www.nabr.org/>**


**<http://www.amprogress.org>**

**<http://www.fbresearch.org/>**



# Upcoming Rules, Regulations, Policies

## APS-American Physiological Website

 The American Physiological Society  
INTEGRATING THE LIFE SCIENCES FROM MOLECULE TO ORGANISM

Home | Members Only | Search | About APS | Store | FASEB Member Directory

[the-aps.org](#) > [committees](#) > [animal care and experimentation committee](#)

**Advertising** ▾  
**Awards** ▾  
**Careers/Mentoring** ▾  
**Chapters** ▾  
**Committees** ▾  
**Education** ▾  
**Meetings** ▾  
**Membership** ▾  
**News Archives** ▾  
**Press Room** ▾  
**Science Policy** ▾  
**Publications** ▾  
**Sections & Groups** ▾  
**Sites of Interest** ▾  
**Trainees** ▾

**Animal Care and Experimentation Committee**  
(Established 1952)

This committee is composed of three or more members of the Society and a student member. The Chairperson of the Public Affairs Committee, a member of the Liaison with Industry Committee, and the Society's Director of Government Relations and Science Policy are ex officio members, without vote.

Duties are to:

- Keep the "Guiding Principles of the Care and Use of Animals" up-to-date. Changes must be approved by Council.
- Act as arbiter for the Publications Committee relative to publication of papers involving questionable animal experimental procedures and care.
- Keep abreast of legislation as well as the activities of other groups concerning animal care and experimentation and keep Council apprised of changes by means of regular reports.
- Keep abreast of new developments in animal models for student teaching and alternatives for animal usage and make recommendations to Council concerning these matters.
- Coordinate with the Public Affairs Committee all matters and policies related to the procurement, use and care of animals for research and teaching; activities involving public or private agencies concerned with such matters; and advise the Council of actions to be taken or recommended. To facilitate this coordination, the chairperson of the Animal Care and Experimentation Committee shall serve as an ex officio member of the Public Affairs Committee. The coordination of these activities is the responsibility of the public affairs officer who also serves as liaison for both committees.
- Discharge any other duties relative to animal experimentation that may be delegated by Council.
- The Chairperson or a member of the committee shall represent the APS on the AAALAC Board of Trustees for a three-year term and may be appointed for an additional three-year term.
- Update the Sourcebook for the Use of Animals in Physiological Research and Teaching.

[Current Members](#)  
[2008 Committee Report](#)  
[2007 Committee Report](#)  
[2006 Committee Report](#)  
[2005 Committee Report](#)  
[2004 Committee Report](#)  
[2003 Committee Report](#)  
[2002 Committee Report](#)  
[Click here for APS Public Affairs page with information on animal research](#)

9650 Rockville Pike  
Bethesda, MD  
20814-3991  
USA  
301-634-7164  
301-634-7241 fax  
[webmaster@the-aps.org](mailto:webmaster@the-aps.org)  
Copyright © 2008

 The American Physiological Society  
INTEGRATING THE LIFE SCIENCES FROM MOLECULE TO ORGANISM

Home | Members Only | Search | About APS | Store | FASEB Member Directory

[the-aps.org](#) > [committees](#) > [animal care and experimentation committee](#)

**Advertising** ▾  
**Awards** ▾  
**Careers/Mentoring** ▾  
**Chapters** ▾  
**Committees** ▾  
**Education** ▾  
**Meetings** ▾  
**Membership** ▾  
**News Archives** ▾  
**Press Room** ▾  
**Publications** ▾  
**Science Policy** ▾  
**Sections & Groups** ▾  
**Sites of Interest** ▾  
**Trainees** ▾

**Science Policy**

**Current Highlights**

**Science Policy at EB** 4/06/09  
The APS is sponsoring a number of science policy related sessions at the upcoming Experimental Biology meeting in New Orleans. For a list of all the available sessions, click here. Also check out the online discussion forum on "Scientists and Regulatory Burden: Navigating the Rugged Landscape" located at <http://apspapercut.blogspot.com/>.

**APS Joins NCSE, 51 Others to Support Science Education in TX** 3/24/09  
The APS has signed on to a statement by the National Center for Science Education asking the Texas State Board of Education to "support accurate science education." The letter is signed by over fifty associations and societies "representing hundreds of thousands of scientists and teachers," according to NCSE.

**Distribution of Science Funds in the American Recovery and Reinvestment Act (ARRA) of 2009** 2/25/09  
The National Institutes of Health (NIH), National Science Foundation (NSF), Veterans Affairs (VA) and NASA will all receive additional funding under the provisions of the stimulus package. Each agency is working hard on plans to spend the additional funds quickly and effectively.

**New Congressional Advocacy Tool Available** 2/25/09  
FASEB's has unveiled a new online guide to the 111th Congress that compiles a wealth of resources with information about the more than sixty freshman Members of Congress, including their statements and positions on issues important to research.

**Bioscience Briefing**  
For info about biomedical funding, animal research and other bioscience issues, click here.

**Science Policy Announcements**  
For the latest news from the APS Science Policy click here.

**Resource Book Now Available**  
Click here for more info on The APS Resource Book for the Design of Animal Exercise Protocols.

  
[www.apsprinc.org](http://www.apsprinc.org)

**Contact Congress**  
  
GO  
enter ZIP code

9650 Rockville Pike  
Bethesda, MD  
20814-3991  
USA  
301-634-7164  
301-634-7241 fax  
[webmaster@the-aps.org](mailto:webmaster@the-aps.org)  
Copyright © 2008



# *Upcoming Rules, Regulations, Policies*

**European Directive 86-609 Appendix A  
cage size-under revision**

**[http://ec.europa.eu/environment/chemicals/lab\\_animals/revision\\_en.htm](http://ec.europa.eu/environment/chemicals/lab_animals/revision_en.htm)**



# *International Organizations-World is Getting Smaller*

**IACLAM-<http://www.iaclam.org/>**

**JCLAM-<http://plaza.umin.ac.jp/JALAM/>**

**KCLAM-[pjhak@snu.ac.kr](mailto:pjhak@snu.ac.kr)**

**ECLAM-<http://www.eclam.org/>**



## *International Organizations*

**FELESA-<http://www.felasa.eu/>; position papers published in Lab Animals; have policy statements, working group information, and guidelines on website**

**National Centre for Replacement, Refinement, and Reduction of Animals in Research-<http://www.nc3rs.org.uk/>**

**OECD (Organization for Economic Co-operation and Development)-  
Guidance Document on the Recognition, Assessment, and Use of  
Clinical Signs as Humane Endpoints for Experimental Animals Used  
in Safety Evaluation-  
[http://www.oalis.oecd.org/oalis/2000doc.nsf/LinkTo/env-jm-mono\(2000\)7](http://www.oalis.oecd.org/oalis/2000doc.nsf/LinkTo/env-jm-mono(2000)7)**

**ICH-International Conference on Harmonization-<http://www.ich.org/>**



# Acknowledgements

**Francis Sun, DVM, DACLAM**

**Tom Golding, DVM, DACLAM**

**Terry Hawk, PhD, DVM, DACLAM**

**Jennifer Dew, BS, LATg, CPIA**