

IACUC 101

Role and Functions of the IACUC

2024

Role of the IACUC

"The Chief Executive Officer of the research facility shall appoint an (IACUC) to

assess, oversee, monitor, evaluate*

"the research facility's animal program, facilities, and procedures."

*

"**assess** the research facility's ..." (USDA)
 "**oversee** the institution's ..." (PHS)
 "**monitor** the care and use of ... animals" (Ag Guide)
 "responsible for **assessment** and **oversight** of the ..." (Guide)
 "responsible for **oversight** and **evaluation** of the ..." (Guide)

"... research facility's animal program ..."

Program: The activities conducted by and at an institution that have a direct impact on the well-being of animals, including animal and veterinary care, policies and procedures, personnel and program management and oversight, occupational health and safety, IACUC functions, and animal facility design and management.

Animal Care Program

"The activities conducted by and at an institution that have a direct impact on the well-being of animals, including

- animal and veterinary care,
- policies and procedures,
- personnel and program management and oversight,
- occupational health and safety,
- IACUC functions, and
- animal facility design and management."

- Guide, p. 11

Animal Care Program

Also includes

- Established lines of authority with top-down support,
- An engaged IACUC,
- Scientists working with the Committee,
- Procedures for self-monitoring,
- An environment, housing, and management program,
- Appropriately maintained facilities, and a
- Training program.

Animal Care and Use Program

- Regulations, Policies, Principles
- Disaster Planning/Emergency Preparedness

Environment, Housing, and Management

- Terrestrial Animals
- Aquatic Animals

Veterinary Care

- Animal Procurement /Transportation
- Clinical Care and Management
- Pain and Distress
- Euthanasia

Physical Plant

- Functional Areas
- Special Facilities

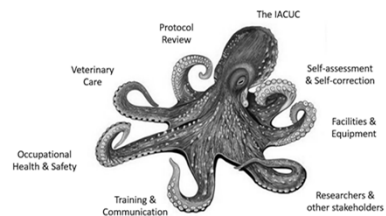
Program Management
Program Oversight

Preventive Medicine
Surgery
Analgesia
Anesthesia

Construction Guidelines
Security/Access Control



What is an Animal Care and Use Program?



An animal care program is like an octopus, with the legs representing the different areas and responsibilities - when they aren't communicating, you can have a big floppy mess, but when they work together you have one of the most graceful animals in the ocean.

Shannon Reynolds
Allen Institute

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Animal Care Program

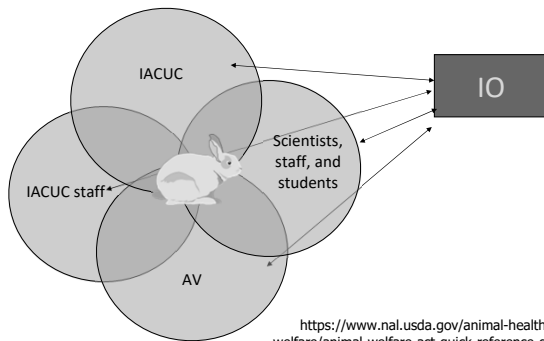
"Is in compliance with all federal, state, and local laws and regulations; can assure the public of quality animal care; minimize burdens on the research teams; and facilitate scientific research."

Defining the Animal Care and Use Program, EP Sandgren, LabAnimal, 34:10, June 2005.

Animal Care Programs
Key Participants

i.e., Team Members

Team Members



<https://www.nal.usda.gov/animal-health-and-welfare/animal-welfare-act-quick-reference-guides>

IACUC Members

CATEGORY	USDA	PHS & VA	Guide	Ag G	DoD
Veterinarian with program authority	✓	✓	✓	✓	✓
• training or experience in lab animal science and medicine	✓	✓	✓		✓
• qualified in agricultural animal medicine and vet medicine				✓	
Nonaffiliated	✓	✓	✓	✓	✓(✓)
Scientist		✓	✓	✓	
• w/ expertise in ag research or teaching involving ag animals				✓	
• w/ expertise in animal, dairy, or poultry & mgmnt of ag animals				✓	
Nonscientist		✓		✓	✓
Chair	✓				
Minimum	3	5		5	5

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• w/ expertise in ag research or teaching involving ag animals				✓	
• w/ expertise in animal, dairy, or poultry & mgmnt of ag animals				✓	
Nonscientist		✓		✓	✓
Chair	✓				
Minimum	3	5		5	5

- Duly constituted
- Chair?
- Quorum – half + 1
- No more than 3 from an administrative unit
- Alternates – by category not name is okay
- Non-voting – one is either a member or not
- Who can serve as chair?

<https://olaw.nih.gov/guidance/topic-index>

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- * "responsible for assessment and oversight of the ..." (Guide)
- * "responsible for oversight and evaluation of the ..." (Guide)

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Role of the IACUC


"The overriding goal should be to facilitate centralized, uniform, and high quality oversight of the institution's animal care program."

Ag Guide, p. 1

Role of the IACUC

Begin with the expectation of responsible and ethical behavior from all parties involved and work from a position of trust between the IACUC and the investigators.

3. Review concerns



- 517-884-8527 Campus Animal Resources
- 517-388-1078 South Campus Animal Farms
- 517-432-8103 Institutional Animal Care & Use Committee
- 517-355-2222 MSU Police after hours, weekend, holiday
- 911 Emergency
- 800-763-0764 Misconduct Hotline

MSU requires that all research and teaching animals receive the best possible care. Reports can be made anonymously. No one shall be discriminated against or be subject to reprisal for reporting problems or concerns regarding animal care.

IACUC Functions

5. Suspend activities

"Be authorized to suspend an activity involving animals ..."

Suspension requires a vote of the majority of a quorum present at a convened meeting

Think about it –
Temporary 'suspension'
Caution ...

IACUC Functions

11. Review security/emergency/disaster/crisis plans

"In the event of an emergency, institutional security personnel and fire or police officials should be able to reach people responsible for the animals."

"Emergency procedures for handling special facilities or operations should be prominently posted."

"A disaster plan that takes into account both personnel and animals should be prepared ..."

"Security features, such as card-key systems, electronic surveillance, and alarms ... a perimeter fence or other means."

"An alternative or emergency power supply should be available."

"Institutions should also consider the threat that criminal activity..."

From the Guide

Then there's the pandemic...
Business continuity plans

IACUC Functions

12. Review veterinary medical care

- Does the AV walk through the facility on a regular basis?
- Is there a mechanism for reporting sick/dead animals to the veterinarians?
- Do all staff know how to call the veterinarians no matter what the hour?
- Are appropriate procedural and health records maintained?
- How are infectious diseases monitored and controlled?
- Do animals receive appropriate care / pain relieving drugs during and after procedures?
- Is euthanasia performed according to the AVMA recommendations?

See [www.ACLAM.org/position statements](http://www.ACLAM.org/position%20statements)

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IACUC Functions

Assess, oversee, monitor, evaluate the care and use of animals

1. Conduct semiannual review of program & facilities
2. Review protocols, amendments, & modifications
3. Review concerns
4. Make recommendations
5. Suspend activities
6. Assess personnel qualifications & training
7. Prepare reports & maintain records
8. Monitor the occupational health & safety program
9. Develop policies
10. Advise on environment, housing, & management
11. Review security/emergency/disaster/crisis plans
12. Review veterinary medical care

In summary

IACUC Functions Summarized

Be aware of, understand, and approve or endorse

(almost) everything

that goes on in the facility with regard to the use of animals in research and teaching!

See 9 CFR 2.31(c) & IV.B.

In summary

Understand that an animal care program is

“the activities conducted by and at an institution that have a direct impact on the well-being of animals, ...”

In summary

You need to build a reference library:

In summary

And remember:

It's not your program; this requires a team effort.

<https://www.nal.usda.gov/animal-health-and-welfare/animal-welfare-act-quick-reference-guides>

INSTITUTIONAL & IACUC REQUIREMENTS *

	SOURCE	Guides ^{1,2}	PHS	USDA	DOD	VA
1. As applicable: PHS Animal Welfare Assurance; USDA Registration; AAALAC International accreditation			IVA	\$230a	4e6; 5e1; 6b	4a(4); 4b(1); 7c
2. Establish a Committee: Membership, orientation, resources, and training; Provide resources for an animal care and use program	Chap 1.2.1	IV.A.3.a; B.1-8	\$231.a	4b.4; 4e1; 5f	3; 4c(1); 6e(1); 7b; 9	
3. Semiannual review of programs, inspections, and reports to the IO	Chap 2.1	IV.B.1-3	\$231.c1-3	4f.3; 8a.1	8e(1); App E	
4. Review activities (protocols) involving animals: Review of new and continuing activities; Reevaluate modifications to activities; Conduct postapproval monitoring	Chap 2.1	IV.B.4.6.7; C.1.7; D.1-3	\$231.c6	4f1.2-6.4; 5a1.2	8f(2); g	
5. Review concerns involving animals	Chap 2.1	IV.B.4	\$231.c4	7.a; b	8b	
6. Make recommendations to the IO	Chap 2.1	IV.B.6	\$231.c5	4f.4	8f(3e)	
7. Suspend activities	Chap 2.1	IV.C.7	\$231.d5.7	4f.4	4e; 8f(3); 8	
8. Training and instruction for personnel	Chap 2.1	IV.A.1.g	\$232.a; b	4b.4.4.e.7	2h; 6c(7); 8e(1)(e); 8f(2)(d); 8m	
9. Reporting and Recordkeeping Requirements: External annual reports, if applicable; Assurance and accrediting body determinations, if applicable; Minutes of IACUC meetings; Records regarding protocol review and Records of semiannual review and inspections	Chap 2.1	IV.F.1.4	\$236.a; b	5.a-d	8f(1)(g)-(h); 8f(2); 8; 8h; 8i	
10. Occupational health and safety programs	Chap 2.1	IV.A.1.f			10; App C	
11. Institutional policies with regard to animal use activities	Chap 1.2.1			5.a-k	7b and 7c; 8e in Appendix C	
12. IACUC meeting as needed/regular intervals	Chap 2.1				8f(2)	
13. Security, disaster, emergency, crisis plans	Chap 2.3.6.3	See OLAW website	\$236(i); (j); (m)		7a(2); 7a(6); 7i	

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Nonscientist		✓		✓	✓
Chair	✓				
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Post-test

1. There must be a veterinarian with program authority on the IACUC.

Can this authority be delegated?

2. Can the nonaffiliated be on another committee at the institution?

3. Can the nonaffiliated be the Chair?

4. Can the nonscientist be the Chair?

5. Can an alternate serve as chair in the absence of the Chair?

6. Can the AV be the Chair?

7. Can the IACUC Administrator be the Chair?

8. Can a non-member be the Chair?

- a. Yes
- b. No
- c. It depends

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	SOURCE	<u>Guides</u> ^{1, 2}	<u>PHS</u>	<u>USDA</u>	<u>DOD</u>	<u>VA</u>
REQUIREMENT						
1.	As applicable: PHS Animal Welfare Assurance; USDA Registration; AAALAC International accreditation		IV.A	§2.30.a	4.e.6; 5.e.1; 6.b	4b(4), 4b(5), 7e
2.	Establish a Committee: Membership, orientation, resources, and training; Provide resources for an animal care and use program	Chap 1, 2; 1	IV.A.3.a-c; B.1-8	§2.31.a	4.b.4; 4.e-f; 5.f	3j, 4b(1), 8a(1)-(5), 6
3.	Semiannual review of programs, inspections, and Report to the IO	Chap 2; 1	IV.B.1-3	§2.31.c.1-3	4.f..3; 8.a.1	8f(1), App E
4.	Review activities (protocols) involving animals Review of new and continuing activities Review/approve modifications to activities Conduct postapproval monitoring	Chap 2; 1	IV.B.4, 6-7; C.1-7; D.1-3	§2.31.c-e	4.f.1-2 & 4; 5.d.1-2	8f(2), g
5.	Review concerns involving animals	Chap 2; 1	IV.B.4	§2.31.c.4	7.a-b	8k
6.	Make recommendations to the IO	Chap -; 1	IV.B.5	§2.31.c.5	4.f.4	8f(1)(e)
7.	Suspend activities	Chap -; 1	IV.C.7	§2.31.d.6-7	4.f.4	4e, 8i(1)(b), 8j
8.	Training and instruction for personnel	Chap 2; 1	IV.A.1.g	§2.32.a-b	4.b.4; 4.e.7	2h, 6b(7), 8b(1)(e), 8f(2)(a)4, 8m
9.	Reporting and Recordkeeping Requirements External annual reports, if applicable; Assurance and accrediting body determinations, if applicable; Minutes of IACUC meetings; Records regarding protocol review; and Records of semiannual review and inspections.	Chap 2; 1	IV.F.1-4	§2.36.a-b	8.a-d	8f.(1)(d)-(h) 8f(2), 8i, 8h, 8l
10.	Occupational health and safety programs	Chap 2; 1	IV.A.1.f			10, App C
11.	Institutional policies with regard to animal use activities	Chap 1, 2; 1			5.a-k	7b and 7c, 8c in Appendix C
12.	IACUC meeting as needed/regular intervals	Chap 2; 1				8.f.(2)
13.	Security, disaster, emergency, crisis plans	Chap 2, 3, 5; 3	See OLAW website	§2.38.l Is on hold		7a(2), 7a(4), 7i

*a. Based on regulations/recommendations found in the

1. Guide for the Care and Use of Laboratory Animals, National Research Council 2011, referenced 1st above;
 2. Guide for the Care and Use of Animals in Agricultural Research and Teaching, FASS 2010, referenced 2nd above;
 3. PHS Policy on Humane Care and Use of Laboratory Animals, revised 2015;
 4. USDA Animal Welfare Regulations (AWRs) 9 CFR, Subchapter A, Parts 1-3;
 5. AR 40–33/SECNAVINST 3900.38C/AFMAN 40–401(l)/DARPAINST 18/USUHSINST 3203; and
 6. VA Handbook 1200.07, Use of Animals in Research, November 2011.
- b. PHS Policy requires compliance with the AWRs (9 CFR, Subchapter A) and the Guide for the Care and Use of Laboratory Animals.
- c. DOD regulations require the IACUC to "perform other duties as listed in Title 9, Code of Federal Regulations", the AWRs above.
- d. OLAW refers institutions to the ARENA /OLAW Institutional Animal Care and Use Committee Guidebook, 2nd Edition, 2002, for best practices guidance.
- e. Some requirements are assigned specifically to the IACUC, while others are deemed to be the responsibility of the institution. The IACUC has overall responsibility to see that the job gets done.
- f. Institutions using only rodents, fish, and birds, not receiving PHS funds, and not AAALAC accredited may be exempt from some of these requirements.
- g. Check with your institution's legal counsel regarding any additional site-specific or state and local requirements.