## **Post Approval Monitoring Program**

Post Approval Monitoring (PAM) for IACUC<sup>1</sup> protocols is aimed at improving communication between animal researchers and the IACUC, prepare CSU Animal Care and Use Program (ACUP) for reviews/inspections performed by any of the following agencies:

- USDA APHIS<sup>2</sup> Animal Care unannounced inspections
- OLAW<sup>3</sup>
- AAALAC International<sup>4</sup>

The goal of PAM is to be educational and to help the Principal Investigator (PI) ensure their approved protocol accurately reflects animal activities performed. This program will help the IACUC to proactively solve problems and resolve issues before they adversely impact the important research conducted at CSU. PAM is a component of the IACUC's programmatic oversight which also includes observations of protocol procedures, semiannual inspections, investigation of concerns, and routine veterinary visits to facilities.

#### **Protocol Selection:** Protocols selected for PAM are tiered as follows:

- Protocols with current concerns brought to the IACUC
- Protocols that involve pain category D & E using USDA covered species
- Protocols that involve pain category D & E using other species
- Protocols that involve pain category C using USDA covered species
- Protocols with variances
- All other protocols.

#### **Specific PAM Objectives:**

- To compare approved procedures with animal activities performed and direct any discrepancies to the amendment process so the protocol complies with applicable regulations and CSU IACUC Policies.
- To communicate changes in PHS Policy, USDA regulations, and CSU IACUC policies to researchers.
- To communicate to the IACUC the status of animal husbandry, facility operations, and program personnel supporting research and teaching activities.

## **Process for Conducting PAM:**

1. PAM Personnel<sup>5</sup> notify PIs of an upcoming PAM review. A mutually agreeable time for this review, preferably within 60 days of initial notification, is set. Protocols with past compliance issues or those reported to the IACUC may receive significantly less notice

<sup>&</sup>lt;sup>1</sup> IACUC: Institutional Animal Care and Use Committee

<sup>&</sup>lt;sup>2</sup> USDA APHIS: United States Department of Agriculture, Animal and Plant Health Inspection Service

<sup>&</sup>lt;sup>3</sup> OLAW: Office of Laboratory Animal Welfare

<sup>&</sup>lt;sup>4</sup> AAALAC International: Formerly Association for Assessment and Accreditation of Laboratory Animal Care

<sup>&</sup>lt;sup>5</sup> PAM Personnel: AV/delegates, IACUC members, IACUC staff.

- (24-48 hours) prior to review. The IACUC retains the right to monitor animal use without prior notice.
- PAM Personnel use the PAM Checklist (See Appendix 1) during the review to ensure
  consistency. The PI is encouraged to invite all protocol personnel to participate in the
  PAM review. PAM Personnel gather information about protocol activities, including
  procedures performed, who performed them, and address PI questions about CSU
  ACUP.
- 3. PAM Personnel will read and review the protocols to familiarize themselves with the IACUC-approved activities prior to meeting PI/protocol personnel. The PI will be informed of the PAM review outcome and documents, including discrepancies between procedures performed and the IACUC-approved protocol. Discrepancies may include but not limited to:
  - Examples of minor discrepancies:
    - a. Outdated materials (drugs, experimental agents, suture, sterile supplies, etc.) used.
    - b. Equipment (e.g. anesthetic vaporizers) not calibrated.
    - c. Protocol personnel not trained or have expired trainings.
  - Examples of serious non-compliance:
    - a. Procedures performed or personnel not listed on the approved protocol.
    - b. Supporting documentation for animal care, post-op care, or other study procedures were incomplete or unavailable.
    - c. Euthanasia procedures inconsistent with protocol, that cause increased distress.
    - d. Adverse events not reported to the IACUC.

Report of animal misuse, mistreatment, neglect, or willful disregard for appropriate animal care will be immediately reported to the IACUC Chair and the Attending Veterinarian (AV). Corrective action will be determined by the IACUC.

#### **Process of Sharing PAM Review Information:**

- 1. PAM Personnel may discuss the results with the PI/protocol personnel before leaving the laboratory.
- 2. PAM Personnel will prepare a written review (PAM Report) for the PI to address specific items. The IACUC may also review this information as needed.
- 3. In the event a serious non-compliance is found during the PAM review, the IACUC will be updated with this information by PAM Personnel at the next IACUC meeting.

  The IACUC determines whether:
  - a. No further action needed.
  - b. If additional corrective action is required, e.g. non-compliance letter
  - c. Protocol(s) need an amendment.
  - d. Notify relevant oversight agencies, e.g. AAALAC, OLAW, and/or USDA, based on corrective action plan and/or agency requirements.

4. PAM Personnel notify PI of the IACUC's decision.

#### Process of Follow-up:

PAM personnel follow up with PI on any issues raised during a PAM review requiring protocol modifications, new personnel orientation, or additional training.

#### **Process for PI Appeal:**

Pls who disagree with PAM review findings and/or recommendations may appeal to the IACUC via email: <u>CSU\_IACUC@mail.colostate.edu</u>. The information will be passed on to the IACUC and may result in one of the following:

- 1. Uphold PAM report as is.
- 2. Recommend modification of PAM report.
- 3. Request PI to meet with the IACUC in person to discuss further.

# **Appendix 1: PAM Checklist**

Protocol #, Title:	
Animals, numbers:	
PI:	
Date of Audit:	
Audit Personnel:	
Lab Personnel:	
Procedures	

## **COMMENTS:**

## Recommendations:

	Virtual PAM			
Yes	No	N/A		
			<ol> <li>All animal procedures are approved and consistent with the IACUC- protocol</li> </ol>	
			2. Animal Records reviewed, are up to date and complete, including	
			Surgical/procedural and daily care checks	
			3. Review variances	
			4. All staff have access to and understand the protocol and can	
			describe their duties and practices related to the project	
			5. All staff are enrolled in the Occupational Health Program	
			6. Staff listed on the protocol are up to date	
			7. Animal facilities are listed correctly	
			8. Rooms that have animal activities have been inspected in the last 6 months	
			9. Adverse (unexpected) events promptly reported to the IACUC.	

# In Person PAM:

Animal Welfare			
Yes	No	N/A	
			1. All animal procedures are approved and consistent with the IACUC-
			protocol.
			2. Animals properly identified, appear healthy and well cared for.
			3. Review variances
			4. Reporting Animal Welfare Concerns flyer posted.
			5. Health care is overseen by veterinarian

6. Euthanasia equipment is in good working order.
7. Adverse (unexpected) events promptly reported to the IACUC.
8. Surgical technique is adequate
9. Monitoring of surgical animals is adequate, including post-op care
10. Anesthesia machines serviced every 2 years. Waste anesthetic gases
scavenged appropriately.

	Facility			
Yes	No	N/A		
			<ol> <li>Animal Facilities are listed correctly on protocol, areas are clean and uncluttered.</li> </ol>	
			Rooms that have animal activities have been inspected in the last 6 months	
			3. Drugs, materials, and feed are in date and properly stored. Gas tanks are secured appropriately.	
			4. Biohazards identified, safety precautions and entry requirements followed.	
			5. Pest control program in place.	

	Recordkeeping			
Yes	No	N/A		
			1. SOPs, daily logs or checklists are maintained	
			2. Animal health, procedure, and study records are current and adequate.	

Personnel			
Yes	No	N/A	
			1. All staff have access to and understand the protocol and can describe
			their duties and practices related to the project.
			2. All staff are enrolled in the Occupational Health Program
			3. Staff listed on the protocol are up to date
			4. Staff are adequately trained. Training records are current.

IACUC Admin: Office Use Only			
Yes	No	N/A	
			Count PAM Review as IACUC Semi-Annual inspection
			Biosafety personnel present at PAM Review