

# Instituting Improvement and Quality Assurance in an Animal Care and Use Program in Transition

Health Care Compliance Association Research Compliance Conference Anaheim, CA 2022

Office of Accountability and Compliance

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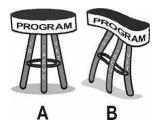
### Objectives

- Identifying program concerns through subject matter expert collaboration and coordination
- Standardizing practices and promoting education and training to create consistency
- Crafting a quality assurance program to embed improvements into the culture



## **Program Components**

- Institutional Official
- Attending Veterinarian
- Institutional Animal Care and Use Committee



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### Regulations

- Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy)
  - Guide for the Care and Use of Laboratory Animals (*The Guide*)
- The US Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research and Training (Principles)
- The US Animal Welfare Act
- Animal Welfare Act Regulations (AWRs)



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### What could possibly go wrong?

- Leadership
- Program Support
- Communication
- Oversight



### Identification of program concerns

- Investigation
- Audit
- Program Evaluations





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### Subject Matter Experts

- Internal
  - IACUC Members
  - Office of Animal Welfare
  - Advisory Committee
  - Researchers
  - Veterinarians
  - · Husbandry staff
  - Facility Managers

- External
  - · Charles River
  - Attending Veterinarian
  - IACUC Administrator
  - · Regulatory agencies





### Areas of Needed Improvement Identified

- Culture
- Communication
- Policies and procedures
- Education and training
- Technology
- Human resources
- Auditing and monitoring UMB ACUP Annual Report 2021





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### Communication

- Animal Care and Use Program Advisory Committee
- IO/AV/OAWA/Chair
- Veterinary Resources Staff
- All Faculty/ Staff
- Business Operations





### Communication

- Distribution of standard operating procedures
- Periodic email updates
- Distribution of ACUP Annual Report to all stakeholders
- Newsletter



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### **Standard Operating Procedures**

- PPE
- Husbandry
  - Rodent husbandry
  - Small animal husbandry
- Diagnostics
  - Rodent diagnostic sampling
  - Positive diagnostics
- Equipment Operation
  - Cage wash



### **Education & Training**

The Guide for the Care and Use of Laboratory Animals (the Guide) provides that "all personnel involved with the care and use of animals must be adequately educated, trained, and/or qualified in basic principles of laboratory animal science to help ensure high-quality science and animal wellbeing. Institutions are responsible for providing appropriate resources to support personnel training" (National Research Council, 2011).



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### **Education and Training**

- Trainers
  - Training veterinarian
  - · Training specialist
- Bootcamp
  - Two-week intensive
- AROC -Animal Research Oversight Course
- Website
  - Current, updated information
  - Accessible resources





## Education and training

#### New Employees--ALL

Welcome
Intro to Animal Research
Policy Training
AUP and IACUC Functions
AALAS certifications
Safety in Theory
Safety in Practice
Animal Feed Procedures
Cage card Guide
Receiving and Transferring Animals

#### **Rodent Caretaker**

Cage changing
Normal Mouse & clinical conditions
Reporting sick & dead animals
Rodent room documentation
Sentinel program
Breeding & colony management
Weaning and cage population
Rodent euthanasia



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### Technology Infrastructure

- Electronic animal care and use protocol submission process
- Business operations platform
- Create solutions related to use of smart phones
- Differing levels of expertise



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## Goals of auditing and monitoring

- Establish internal controls
- Ongoing review of the program
  - Consistency
  - Process
  - Recordkeeping



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### Goals of auditing and monitoring

- Achievements
- Information feedback to key stakeholders
  - Necessary to identify improvements
  - Target areas of concern
  - Create education and training that promotes success



Retrieved from : https://www.complianceweek.com/internal-investigations



### Quality Assurance Program Development

- Risk assessment
  - Review data collected
- Program reimagined
- Feedback
- Quality Improvement



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## Quality Assurance Program Development

- Federal oversight agencies
  - USDA
  - VA
- AAALAC
  - Re-accreditation site visit
- Charles River Laboratories
  - Rounds
- UMB Office of Accountability & Compliance
  - · Facility inspections
  - · Animal observations
  - · Records review



### Quality Assurance Program Development

- IACUC
  - Semi-annual inspections
- Office of Animal Welfare Assurance
  - Post-approval monitoring program
- Veterinary Resources
  - Weekly veterinarian rounds
  - Facility supervisors and managers conducting rounds
  - Veterinary Resources caretakers observe animals daily

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### "Culture of caring" or "Culture of care"

- · Strong institutional commitment
- Staff empowerment
- Cultivation of a positive culture of open communication
- Well-designed and supported training and education program
- Empowerment of animal welfare oversight committees
- Support for initiatives that enhance environmental enrichment
- Involvement in professional organizations

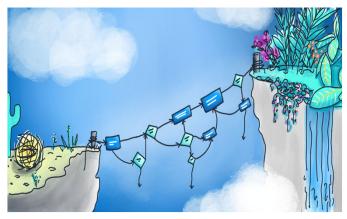
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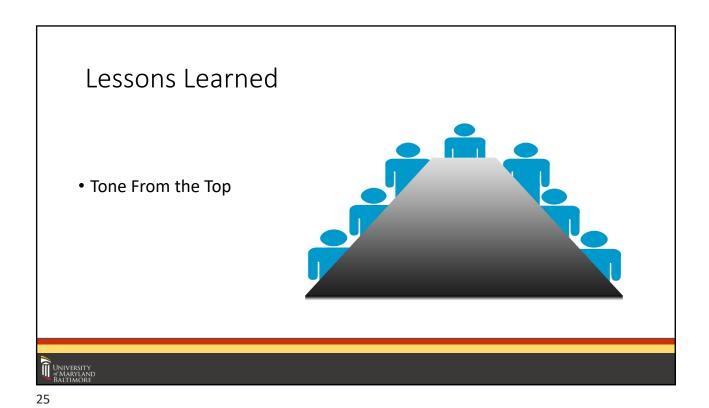
### Extent of Change?

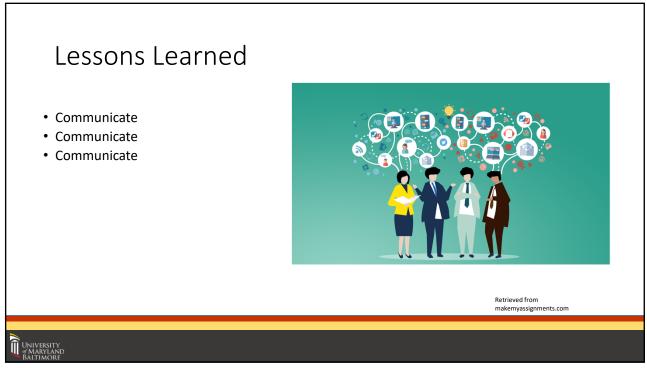
- Transition
- Incremental Change
- Transformational Change



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Lessons Learned

Accountability



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### Lessons Learned



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### Lessons Learned







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