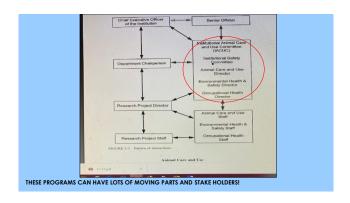
OCCUPATIONAL HEALTH AND SAFETY: WHERE DO WE GO FROM HERE?

Mildred Randolph, DVM, DACLAM Adjunct Professor, Director of Seed Program University of Arkansas for Medical Sciences











## **OHSP: The Basics**

OHS PROGRAMS ARE AN INSTITUTIONAL RESPONSIBILITY



PROTECTING THE HEALTH AND SAFETY OF EMPLOYEES WHO CARE FOR, USE AND COME IN CONTACT WITH RESEARCH ANIMALS

REQUIRES THAT INSTITUTIONS THAT RECEIVE FEDERAL FUNDS MUST PROVIDE AN OHSP

Public Health Service Policy on Humane Care and Use in Lab Animals

Each institution must establish and maintain an occupational health and safety program (OHSP) as an essential part of the overall Program of animal care and use (CFR 1984a; DHHS 2009; PHS 2002).

## The Guide







- Hazard Identification
- Controlling Exposures
- Training
- Establishing Guidelines
- Consistency
- Monitoring
- Institutional Commitment and Coordination

**EFFECTIVE OHSP** PROGRAM

Provision of a safe working environment along with <u>reviewing</u> hazards associated with research protocols

**IACUC INVOLVEMENT** 







### Defines nature and extent of exposure

Position, duties, or role in research, institutional affiliation

Workplace environment Species

Known hazards PPE used

Possible exposure types



Dogs
 Macaques\* Cercopithecine herpesvirus 1
 Farm or Agricultural Animals
 Non-domesticated species
 Wildlife and Field Studies

HAZARD IDENTIFICATION-CAN BE
SPECIES SPECIFIC

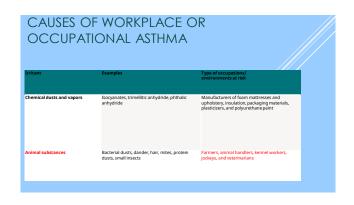
- Rats and then mice are among one of the most common sources of hazard exposure
- Durine is a major source of rodent allergens
- Minimize contact with rodent waste/litter

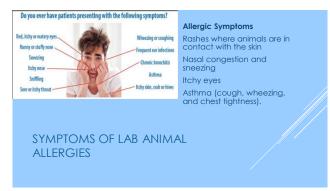
CONTROLLING <u>MOST</u> LIKELY EXPOSURES

- > 75% of all institutions -staff which developed allergic symptoms to rodents
- > 10% of all lab workers will develop occupational-related asthma
- Allergies most often develops over a period of 1-2 year exposure
- Have the right Occupational Professionals involved in the risk assessment process

## HAZARD IDENTIFICATION-RODENT SPECIFIC





















Zoonosis

Chemical, Physical and Biological Hazards

**Hazards associated with Experimental Protocols** 

Personal hygiene

PPE

Precautions during Pregnancy, Illness or Immunosuppression

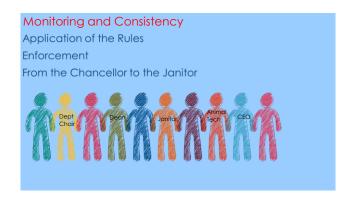
REQUIRED TRAINING: THE GUIDE

## Training and Establishing Guidelines

#1 Objective of OHSP

Communicate hazard training to those who need to know Identify staff at risk of exposure and <u>TRAIN</u> them

IACUC, IBC AND SAFETY STAFF APPROVALS SHOULD BE COORDINATED



# Institutional Coordination and Commitment A CEO must understand that they are ultimately responsible All Stakeholders must be educated and trained on what is required from them to have a successful program For example \*Human Resources Department\* is frequently not included in establishing an effective program Human Resources should know the nuances of your department/jobs being done there

## HR should know who should be screened by OHS professionals Animal Care or Research Staff that handle/exposed animals should be enrolled in OHSP Re-evaluated on a regular basis or if they have a change in health status

# 

WE HAVE ALL EXPERIENCED A
CATASTROPHIC, LIFE-CHANGING,
MULTI-YEAR PANDEMIC
THAT HAS CHANGED (AND IS CONTINUING
TO CHANGE) US FOREVER.





How has/was your program been impacted over the past few years while dealing with Covid?

What adjustments were made?

HOW HAS THE WORKPLACE CHANGED?



Workplace Respiratory Illness Policy \*Masking vs Isolation

\*Testing

\*Quarantine

WORKER HEALTH POLICY



Millennials will make up 75% of the workforce by 2025.

Source: Deloitte



## Current or Updated Trends in OHSP AND A Healthy Workplace

Top Down Leadership is required to make a cultural shift in OHS programs

Comprehensive non-compensation perks like holistic wellness programs to attract the best talent

Foster engagement, performance, and well-being within your team

Training and opportunities for individual growth



- Aggression
- Work-family stress
- Job demands from workplace intensification
- Stress associated with lack of control
- Low workplace support
- Less meaningful work
- Job insecurity
- Non-work responsibilities and quality of life

PSYCHOSOCIAL HAZARDS ARE KEY COMPONENTS TO SOME OHSP

2019, <u>58% of companies offer wellness</u> <u>benefits</u> to support their employees and reduce workplace stress.

DURING THE PANDEMIC, 30% OF AMERICANS SHOWED SYMPTOMS OF ANXIETY, DEPRESSION, OR BOTH.

National Institute for Occupational Safety and Health (NIOSH) 2011
TOTAL WORKER HEALTH PROGRAM

Moving from focusing on individual behaviors where workplace is simply a venue to facilitate individual behavioral change. The new focus was placed on providing a healthy environment in the workplace

Research environments will have to decide what this looks like for us

**FUTURE OF OHSP** 

## WHY DO OHS PROGRAMS FAIL?



## **OHSP FAILURE PITFALLS**

- ▶ Health/Medical Official resistant
- Researchers\* contribution is not appreciated
- Veterinary Staff takes an overly exuberant role
- Human Resources being bypassed
- Administrator or CEO does not prioritize OHS Program

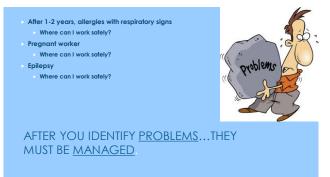
- FAILURE TO FAMILIARIZE OCC MEDICINE STAFF WITH WORK ENVIRONMENT, FACILITY HAZARDS AND RISKS
- FAILURE TO SHARE LITERATURE AND GUIDANCE DOCUMENTS
- FAILURE ESTABLISH AN APPROPRITE BASE-LINE HISTORY/ HEALTH STATUS

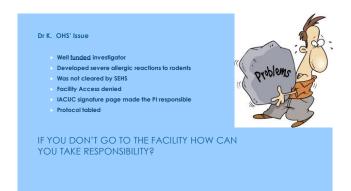
OCCUPATIONAL MEDICINE PHYSICIAN OR NURSE HAS TO BE A MAJOR DRIVER OF THE PROGRAM

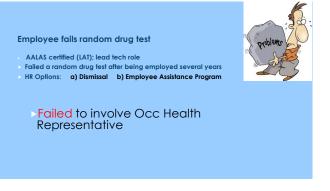
- Monitor and Evaluate OHS Program
- Representative from SEHS
- Monitoring (Documenting Non-compliance)
- Consequences for Non-compliance

FAILURE OF IACUC TO ASSUME RESPONSIBILITY USE THE PROGRAM REVIEW- SEMI-ANNUAL ASSESSMENT









- Recommended counseling with rehabilitation professionals
- Risk Assessment for job duties
  - Isolated areas not recommended
  - > Warned about potential hazards of isoflurane

## FAILURE TO INVOLVED OHS PROFESSIONALS





DISCOVERED TO BE ABUSING ISOFLURANE



