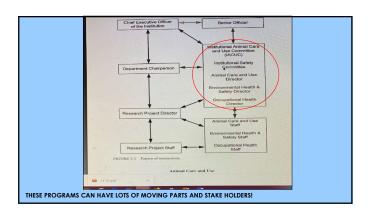


Mildred Randolph, DVM, DACLAM
Adjunct Professor, Director of Seed Program
University of Arkansas for Medical Sciences









1970
14,000 workers were killed on the job – about 38 every day

Occupational Safety and Health Act was signed on December 29, 1970. Since that time, OSHA has helped transform America's workplaces in ways that have significantly reduced workplace fatalities, injuries, and illnesses

PRESIDENT NIXON'S ADMINISTRATION

OHSP: The Basics

OHS PROGRAMS ARE AN INSTITUTIONAL RESPONSIBILITY



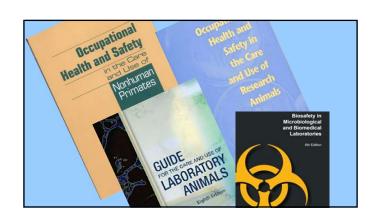
PROTECTING THE HEALTH AND SAFETY OF EMPLOYEES WHO CARE FOR, USE AND COME IN CONTACT WITH RESEARCH ANIMALS

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

HISTORICAL ELEMENTS OF AN **EFFECTIVE OHSP** PROGRAM

Provision of a safe working environment along with reviewing hazards associated with research protocols

IACUC INVOLVEMENT







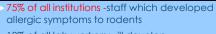


- Dogs
- Macaques* Cercopithecine herpesvirus 1
- Farm or Agricultural Animals
- Non-domesticated species
- Wildlife and Field Studies

HAZARD IDENTIFICATION-CAN BE SPECIES SPECIFIC

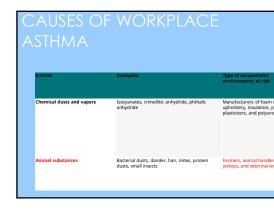
- Rats and then mice are among one of the most common sources of hazard exposure
- Urine is a major source of rodent allergens
- Minimize contact with rodent waste/litter

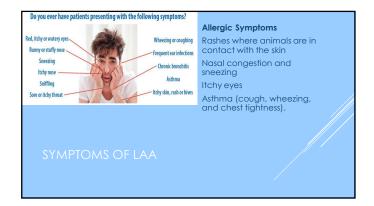
CONTROLLING <u>MOST</u> LIKELY EXPOSURES



- > 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

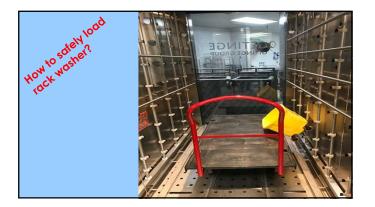












Zoonosis

Chemical, Physical and Biological Hazards

Hazards associated with Experimental Protocols

Personal hygiene

PPE

Precautions during Pregnancy, Illness or Immunosuppression

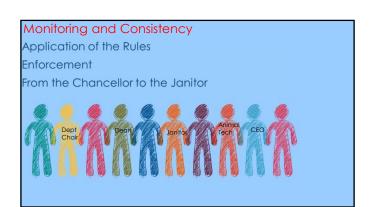
REQUIRED TRAINING: THE GUIDE

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

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

OHSP WAIVER

□ I certify that I am enrolled in an occupational health and safety program for animal exposure at my primary workplace. I understand this may be verified by

Contact Name for Occupational Health Verification

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?





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

- Benefits of Employee Wellness Plans
 - Health and Wellness Programs are associated with employee satisfaction rates
 - Decreased Stress
 - Improved Health and Productivity
 - Improved recruitment and retention



- 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, 58% of companies offer wellness benefits 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

LETS DISCUSS SOME SCENARIOS



- After 1-2 years, allergies with respiratory signs
 - Where can I work safely?
- > Pregnant worker
 - Where can I work safely?
- Epilepsy
 - Where can I work safely?



AFTER YOU IDENTIFY <u>PROBLEMS</u>...THEY MUST BE MANAGED.

Dr K. OHS' Issue

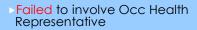
- ► Well <u>funded</u> investigator
- Developed severe allergic reactions to rodents
- Was not cleared by SEHS
- Facility Access denied
- IACUC signature page made the PI responsible
- > Protocol tabled



IF YOU DON'T GO TO THE FACILITY HOW CAN YOU TAKE RESPONSIBILITY?

Employee fails random drug test

- AALAS certified (LAT); lead tech role
- Failed a random drug test after being employed several years
- HR Options: a) Dismissal b) Employee Assistance Program





- 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



GREAT ADVANCES IN BIOMEDICAL RESEARCH: TOTAL NIH (2022) BUDGET APPROX. 45 BILLION; APPROX. 50% BASED ON ANIMAL MODELS YET, SURPRISINCITY THERE HAS BEEN MUCH LESS NEW INFORMATION GENERATED ON PROTECTING THE **PEOPLE** WHO CARE FOR THESE ANIMALS



