OLAR – IACUC Town Hall Meeting
Monday September 11, 2017
Agenda

- PPE changes in the facility
- eSirius update
- AAALAC site visit
- OLAR staffing update
- Announcements
- Questions
PPE Changes in OLAR Facilities

“I’m just burying a bone, but it’s important to wear the proper safety gear for any job!”
Adjusting requirements for:

- **Shoe Covers**
  - Elimination in most areas

- **Surgical Masks**
  - Elimination for routine handling
Shoe Covers for Bioexclusion

• Traditional requirement in animal facilities which started prior to the introduction of:
  – Microisolator and ventilated caging
  • Very effective at controlling pathogen transmission between rooms, cages and racks
  – Animal Transfer Stations (ATS) or Biosafety Cabinets (BSC) for handling
Shoe Covers

• No scientific proof that shoe covers increase biosecurity
  – No effect on health of immunocompromised strains when not used
  – Endemically infected colonies
    • No transmission of pathogens with aseptic cage changing technique
  – Shoe cover integrity is lost quickly
    • ~10 minutes independent of shoe style (UC Irvine, AbbVie)
  – Improper donning and doffing may increase danger of transmitting murine pathogens (Ohio State)

• Increased physical hazard due to associated slips and falls
Studies Performed

• The Ohio State University: “Effectiveness of Shoe Covers for Bioexclusion within an Animal Facility”*
  – Contamination powder (applied directly to floor) that fluoresces under black light was used to track particle dispersal on floor and personnel
  – PPE with and without shoe covers was donned prior to entering the animal room and doffed at exiting

• Results:
  - All participants donning shoe covers fluoresced in multiple areas, primarily on gloves and gowns.
  - Shoe covers had no effect on the spread of powder with no powder detected in cages

*Hickman-Davis JM, Nicolaus ML, Petty JM, Harrison DM, Bergdall. Journal of the American Association for Laboratory Animal Science. 51(2) 181-188, 2012
Studies Performed (Cont)

- Columbia University: “Using Reduced Personal Protective Equipment in an Endemically Infected Mouse Colony”*
  - Results: There was no evidence of disease transmission between colonies endemically infected with MHV and MNV

- Yale University: “Transmission of Mouse Parvovirus by Fomites”**
  - Attached nestlets to shoe covers to expose them to the floor and then placed nestlets in cages. No transmission of MPV detected.

- University of Miami
  – Small study evaluating health effects on nude mice. No adverse health effects were detected, (Pending Publication)

* Baker SW, Prestia KA, Karolewski B. Journal of the American Association for Laboratory Animal Science. 53(3) 273-277, 2014
** Compton SR, Paterzo FX, Smith PC, Macy, JD. Journal of the American Association for Laboratory Animal Science. 51(6) 775-780, 2012
Most Recent Review

• June 2017 Review Article – “Personal Protective Equipment in Animal Research” *
  – OSHA requires shoe covers or boots in areas of high gross contamination
  – BMBL requires shoe covers in ABSL3 facilities
  – Does not improve bioexclusion and may cause contamination
  – Not necessary for rodent studies at ABSL1

* Villano JS, Follo JM, Chappell MG, Collins MT. Comparative Medicine. 67(3) 203-214, June 2017
Other Institutions That Have Eliminated Shoe Covers

• Harvard University
• Baylor University
• Stanford University
• The Ohio State University
• Yale

• University of Houston
• AbbVie
• University of Miami
• University of California, Irvine
Where are Shoe Covers Still Required?

- ABSL 2/3
- Large Animals (Swine)
- Quarantine
- Breeding Core
- Zebrafish Colony (or facility dedicated shoes)
- Necropsy
- Any room that may fall suspect with an excluded pathogen

**Shoe covers will be stocked in these areas**
Surgical Masks

- OSHA definition for use:
  - Sick persons
    - limit the spread of infectious respiratory secretions to others
  - Healthcare providers
    - Prevent accidental contamination of patients' wounds by the organisms normally present in mucus and saliva
    - Protect themselves from splashes or sprays of blood or bodily fluids
    - Helps to keep contaminated fingers/hands away from the mouth and nose

**They are not** designed to prevent the inhalation of small airborne contaminants, allergens, etc
When are Surgical Masks Still Required?

• **ALL** survival surgical procedures
  – Protection of the animals from accidental contamination

• Not required during routine animal handling
  – Continue use allowed if desired
  – Will continue to be stocked in all animal housing and procedural rooms.

• Animal allergies and hazards
  – Correct type and style will be project based
  – Consult with Occupational Health and EH&S
  – May require an annual fit-test (required for N-95 use)
When does this start:

- Effective Monday September 18, 2017
- Skillport modules being updated
eSirius Transition

New IACUC and Animal Facility Management Software
eSirius

- NTM software company (20 years in business)
- Animal facility and IACUC program
- Multiple modules
  - IACUC protocols
  - IBC
  - Census
  - Billing
  - Animal Orders
  - Veterinary Care
  - Training

"It's voice activated, password protection software. Now, the cat can't log on using my screen name."
TIMELINE

- **June/July 2017**
  - Meetings to develop program

- **Early Oct 2017**
  - Program delivered for testing

- **Early Nov 2017**
  - Product finalized/ further testing

- **December 2017**
  - Hand enter protocol information, census, billing, etc
  - User Training
  - New cage cards

- **January 1, 2017 – GO LIVE**
IACUC Protocols

- All will be **HAND** transferred into new system
- Begin with shell, then move to full
- Begin early December 2017

Researcher Tasks

- Submit protocols and amendments for **early IACUC review** in November **or wait** until January
  - See IACUC website for deadlines [www.ucdenver.edu/iacuc](http://www.ucdenver.edu/iacuc)
- Clear all outstanding reviewer comments by **November 30**
IBC Protocols

- Will transition as protocols are renewed

Researcher Tasks

- None at this time
Animal Orders

- Animal ordering system in Topaz will be shut off after Wed December 6 deadline for last delivery Dec 11
- No animal orders received Dec 18, 25, and Jan 1
  - Includes both standard and non-standard vendors
- Will hand transfer standing and wait listed orders

Researcher Tasks

- **PLAN AHEAD**
- Last day animals will be received **Monday December 11**
  - Last order date in Topaz Dec 6
- Animal order system in eSirius will GO LIVE January 1
  - First animals to arrive January 8
Training

• Will provide in-person training
• Will develop tutorials to be posted on-line
• Hensel Phelps – bring laptop, tablet

Researcher Tasks

• Watch for dates in December
• Plan to attend
Researcher Tasks

• Pay attention to emails and respond
  – Update information
  – Important updates on project
  – Important timelines, especially training

• Submit and finalize protocols and amendments
  – Finalize in November

• Respond quickly to questions on protocols

• Attend training
AAALAC
Timeline

- Fall 2017
  - Document review/submission

- 1st Quarter 2018
  - Town Hall Meeting
  - Pre-site visit to labs
  - Site visit

**More information to come**
OLAR Staffing Update

• Chris Manuel, Assoc Director of OLAR
  – Biosecurity, research projects, VA
• Derek Fong, Assoc Director of Veterinary Services
  – Veterinary care including clinical veterinarians, vet techs, students, interns
• Lorraine Bell, Training Manager
• Henok Tekie, Training Technician
• Amy Sitnek, Import/Export Technician
Announcements

• USDA Animal Orders
  – Plan additional time
  – Will require secondary approval from:
    • Facility Manager – space availability
    • Vet Tech Surgery Supervisor – surgery availability

• OLAR Breeding Core Town Hall Meeting
  – Monday October 9 – 10:30 – 11:30 AM
  – Hensel Phelps East
QUESTIONS?

That concludes my two-hour presentation. Any questions?

Did you intend the presentation to be incomprehensible, or do you have some sort of rare "power-point" disability?

Are there any questions about the content?

There was content?