



USEQUESTRIAN
2024 ANNUAL MEETING
& AWARDS

Biosecurity: Protecting Equine Athletes and Equine Competitions presented by ByoPlanet



Dr. Katie Flynn

Friday, January 12, 2024

Biosecurity: Protecting Equine Athletes and Equine Competitions

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Questions:

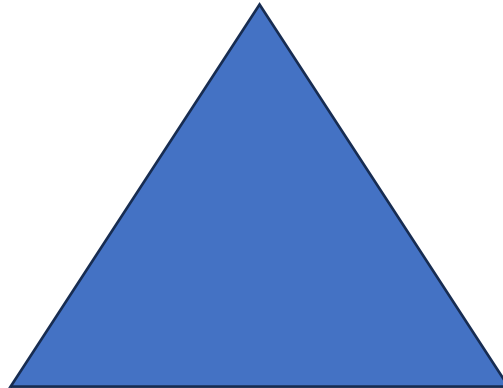
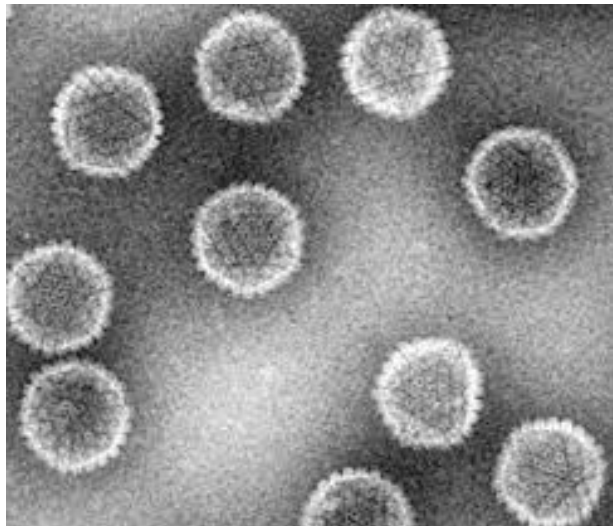
**Are equine competitions at risk
for a disease outbreak?**

**How do we prevent and control
disease outbreaks at equine competitions?**

Risk for Introduction and Spread?



The Players



The Perfect Storm for a Disease Outbreak

Disease agent
enters the event
grounds

Movement of the
disease agent

Environmental
spread of the
disease agent

Exposure of
stressed
susceptible horse
population



The Risks Factors

2,132 competitions with average of 189 horses per competition

55 competitions with more than 1,000 horses

57 of the 388 facilities hosted competitions of 10 days + duration

Biosecurity Challenges at Equine Events



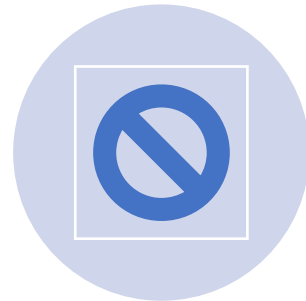
Commingling of horses of unknown health status



Close proximity of horses in the stabling and competition areas.



Animal and human movement



Inadequate or non-existent isolation areas

Question: How do we prevent disease ?

Answer : Biosecurity?

- Practices that
 - ✓ Reduce the chance infectious diseases will be carried on to a event premises
 - ✓ Reduce the spread of infectious diseases on event grounds.



Today's Scenario Outbreak for Discussion



- **Equine Herpesvirus -1**
 - **Venue: 200 horses in 10 barns**
 - **Four weeks of competition and we are on Friday of week 2**
 - **Report of horse unable to rise in barn 4**
-
- **Each table will be assigned a role and questions to work through to either respond to the sick horse or prevent the situation from happening at another event.**

Background on EHV-1 Virus and Disease

- **Respiratory virus can be spread by air over 30 feet**
 - **Nose to nose contact or close proximity with nasal secretions**
- **Fomites- anything that is contaminated by nasal secretions and touches a horse**
 - **People- grooms, braiders, riders, owners, farriers**
 - **Equipment- Feed, stall cleaning, tack, nose rags**
- **Virus likes cold damp environments.**
- **All horses exposed at young age**
- **Virus remains latent (hides in the horse) and shed intermittently**
- **Regulatory Response depends on state – Reportable vs Actionable**

Background on Testing for EHV-1

- **Incubation period - 2-7 days**
 - **Time from exposure to showing clinical signs**
- **Febrile horse or neurologic horse sheds the virus but also asymptomatic shedders**
- **Stall side screening test not approved**
 - **Experimentally used can provide quick result**
- **Confirmatory test at laboratory**
 - **PCR testing on nasal swab and blood takes about 2 days at lab**
- **Horse may test negative initially then positive 24-48 hours later**

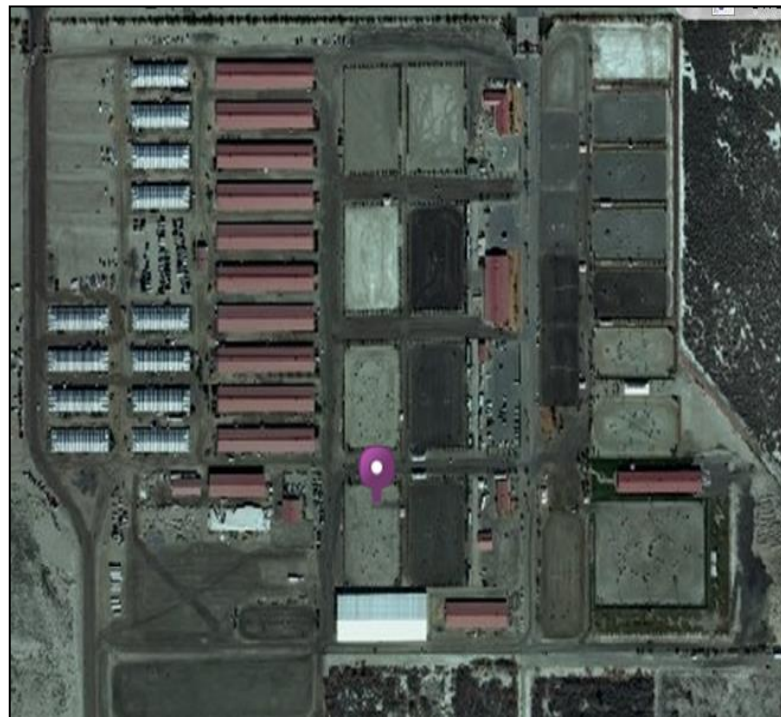
Discussion Group Assignments

- **Each Table has 10 Minutes to answer 3 questions**
 - **Pick a spokesperson to present results**
- **Group A Tables – Goal to Identify Response Measures to Sick Horse**
 - **Veterinarian**
 - **Competition Manager**
 - **Trainer**
 - **Event Communications Representative**
- **Group B Tables- Goal to Identify Prevention Measures for Disease Outbreak**
 - **Veterinarian**
 - **Competition Manager**
 - **Trainer**
 - **Event Communications Representative**

Biosecurity is a Joint Effort



Healthy Horse



**Healthy Competition
Grounds**



Top Tips to Keeping Horses Healthy



Limit Horse to Horse Contact



Avoid Communal Water



Avoid Sharing of Equipment Unless Cleaned and



Limit Human to Horse Contact



Individual Temperature Monitoring Log

Horse Name: _____ Entry # _____

Owner Name: _____

Contact Person Name: _____ Cell # _____

Attending Veterinarian Name: _____ Cell # _____

Medication(s) horse is given daily (Check all applicable boxes):

Phenylbutazone (Bute) AM PM Ketoprofen AM PM

Flunixin (Banamine) AM PM Dipyron AM PM

Firocoxib (Equioxx) AM PM

Instructions: Record the rectal body temperature of horse two times/day, every morning and evening before any medications have been administered.

Date	Temperature		Clinical Observations
	AM	PM	
	°F	°F	
	°F	°F	
	°F	°F	
	°F	°F	
	°F	°F	
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Note:
A body temperature recording above 101.5°F must be reported to a veterinarian and/or competition management.

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Monitoring Horse Health



Top Tips for Keeping Competition Grounds Healthy

Stalls

Ensure proper cleaning AND disinfecting of stalls

Common Areas

Ensure continual cleaning and disinfecting of common areas

Horse Entry

Allow only healthy horses to enter the grounds

Health Monitoring

Require mandatory temperature recording and reporting of horses with fever (temperatures over 101.5)

Isolate

Isolate any horse with fever of unexplained origin and any horse with clinical sign of disease.

New Partnerships with Industry Leaders



- **ByoPlanet electrostatic disinfection spray systems and cleaning solution, Clean Republic, offer an effective ways to reduce emission of airborne bacteria and provides coverage of antimicrobial agents on target surfaces that protect against the spread of illness-causing germs.**
- **Merck Animal Health, producers of Armatrex™, a spray-on long lasting antimicrobial finish may be used to enhance equine biosecurity.**



How it Works



- **When used in conjunction with proper cleaning and disinfecting protocols, Merck's Armatrex™ and ByoPlanet's Clean Republic disinfectant solution and electrostatic disinfection spray systems provides a quick kill disinfection and long-acting antimicrobial finish that delivers protection against a wide array of pathogens.**
- **This partnership will provide USEF Licensed Horse Shows and USEF members with special rates of products.**



BIOSECURITY FOR THE WIN!

HEALTHY HORSE
HEALTHY COMPETITION
=SUCCESS



Questions?

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