

Biosecurity

It is all about choices



Biosecurity begins at Home



Nutrition is Key for Healthy Immune System

- Water: Abundant, Clean, Warm
- Hydration is critical
- Horses like warm water



Digestible Fiber



Availability; Quality; Quantity

Meal Size & Rate of Intake



Balanced Diet

- Protein & Carbohydrate
- Major minerals: Ca; P; Mg; K; Na; Cl
- Trace minerals: Cu; Zn; Se
- Vitamins: A; D; E; K; C
- Alfalfa good source of protein, Ca, Mg
- Choose Supplements for Trace minerals & vitamins – Limit number of supplements
- Grass hay can be highly variable – Consider testing; Watch: moisture, fiber, protein, major minerals, trace minerals

Nutrient Requirement 1100# horse/maintenance

- Digestible Energy (DE) 16.7 Mcal
- Crude Protein 630 grams
- Lysine 27.1 gram
- Calcium (Ca) 20 gram
- Phosphorus (P) 14 gram
- Sodium (Na) 10 gram
- Iron (Fe) 400 mg
- Zinc (Zn) 400 mg
- Copper (Cu) 100 mg
- Selenium (Se) 1.0 mg



Vitamins

- Vitamin A 10 KIU
- Vitamin D 10 KIU
- Vitamin E 2-3 KIU
- Vitamin K
- Vitamin C 1-5 gram
- B vitamins



Bring your own Feed



Vaccinations and Parasites

- Be up to date with vaccines
- Allow immune system to respond before leaving home
- How many? How often? Other considerations?
- Flu/Rhino, Strangles
- Core Vaccines (Tetanus, EEE/WEE, WNV, Rabies)
- Check for skin issues
- Run fecal and practice parasite control
- Leave questionable horses at home
 - ? Monitor Temp 2X/day



Travel

- Be Clean, Practice Low stress hauling
- Bring all your own equipment: Wheel barrow, feed and feed buckets, water buckets, hose, forks, brushes, tack and so forth. Do Not Share
- Be aware of any regional issues



Arrival at Event

- Leave Horses in the Trailer



Arrival

- Inspect the grounds
- Inspect the stalls; Clean stalls, Remove water buckets, feed buckets, anything that looks dirty. After cleaning apply disinfectant.
- Clean the stall if needed – check for “Horse Boogers”
- Add your own clean water buckets and feed racks or nets
- Examine Air flow in barn: Know what is upwind
- Use your own water hose and NO hose placed in bucket
- Know event isolation procedures if something goes wrong

Clean; then Disinfect



9 parts water + 1 part bleach



Generally use 1% solution

Keep Hands Clean



Horses at Risk



Human to Horse Contact

Protecting Equine Health

The complex block features a dark blue background. At the top, the text "Human to Horse Contact" is written in yellow. Below this, there are two side-by-side photographs. The left photo shows a person in a purple shirt and a child in an orange shirt interacting with a horse. The right photo shows a woman in a black shirt interacting with a grey horse. At the bottom of the block, the text "Protecting Equine Health" is written in green, and the "cdfa" logo is in the bottom right corner.

Wash Racks



Stalls: Open, Air flow, Contact



Biosecurity at Equine Events

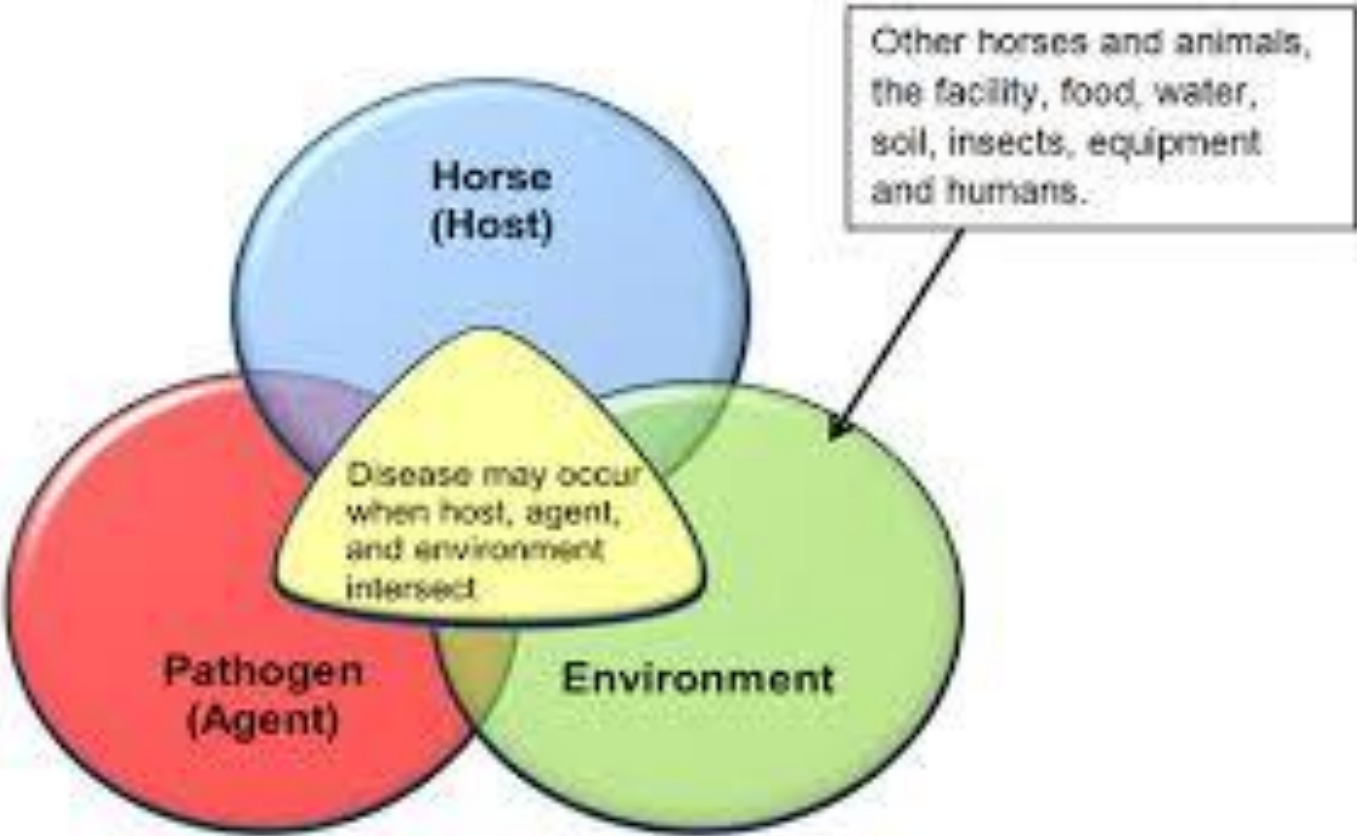
- A disease related “perfect storm” occurs when risk factors and a pathogen successfully interact, resulting in the introduction and spread of an infectious organism among a susceptible population.
- This can happen when:
 - Susceptible, stressed horses are exposed to an infectious agent
 - Conditions & environment at the event support transmission and infection
 - The pathogen spreads rapidly throughout the animal population

Equine influenza virus – Western WA

- Lynden Fairgrounds Horse Show – November, 2018
- EIV positive horses in at least two stables, highly suspected at a third stable
- Extensively shut down Equine activities of all sorts in Whatcom county
- *Monetary impacts:*
 - Lost training, shows, lessons, travel
 - Testing, treatments, containment, labor, biosecurity measures
- Fortunately no loss of life or future performance abilities



The Disease Triangle



Return Home

- Clean and disinfect your trailer, tack, equipment
- Ideally separate those returning from the others for 7 or more days
- Shower, change into clean clothing, clean & disinfect boots before attending to any horses left home
- Following days take care of the horses left home and then care for those who were at the show. If any exhibit sign of illness double up on your efforts to not carry disease to any other horse.

Heading Home



A better Day



Questions??

