1. Introduction: This document provides information about potential zoonotic exposure while working with horses or their products (e.g. fecal sample). The infectious agents listed here are not all inclusive, but provide the most common zoonotic agents seen in horses. The safe work practices are provided as suggestions for staff and researchers who work with animals, in animal facilities, or with animal products.

2. Zoonotic Pathogens
   a. Gastrointestinal Infection
      i. Organisms: *Salmonella* spp., *Escherichia coli*, *Campylobacter* spp., *Cryptosporidium parvum*.
      ii. Clinical Signs
          1. Animals – Diarrhea.
      iv. Prevention: Good personal hygiene, wear gloves when working with animals with diarrhea and wash hands after removing gloves and before leaving the animal facility.

   b. *Rhodococcus equi*
      1. Organisms: bacteria found in soil and feces of herbivores
      2. Clinical signs:
          a. Animals – foals 1-6 months of age; severe pneumonia, septic arthritis, osteomyelitis, neonatal diarrhea, or sudden death
          b. Humans – more common in immune-compromised people; fever and cough, malaise, chest pain, difficulty breathing, coughing blood, weight loss, pneumonia
      3. Transmission: Exposure to contaminated feces or soil – inhalation, ingestion, or directly through open traumatic wound
4. Prevention: Good personal hygiene, wear gloves when exposed to animal feces and wash hands after removing gloves and before leaving the animal facility.

c. Rabies
   i. Organisms: Rabies Virus
   ii. Clinical Signs
      1. Animals - Depression or aggression; generalized neurological signs.
      2. Humans - Local pain at site of inoculation; headache, malaise, fever; anxiety, agitation, paralysis, coma, death.
   iii. Transmission: Saliva (via bites or open wounds), direct contact with CNS tissue.
   iv. Prevention: Wear gloves when in contact with saliva. Do not handle wildlife around the facility. Report any abnormal behavior in wildlife to facility manager immediately. Report any potential exposure to common potential carriers (e.g. bats, raccoons, skunks, foxes, etc.) to facility manager and contact Gannett Occupational Medicine office (255-6960) for immediate medical evaluation.

3. Safe Work Practices
   a. Good Personal Hygiene
      1. Wash hands after working with animals or animal products and when leaving animal facilities. For further instruction refer to CARE SOP 713 Hygiene-Hand Washing.
      ii. Do not eat, drink, or use tobacco products in animal facilities.
      iii. Keep hands away from your mouth, nose, and eyes.
   b. Personal Protective Equipment (PPE)
      1. Use proper PPE for work setting as appropriate (e.g. coverall, facemask, boot covers). Maintain dedicated protective clothing and footwear while working with animals or in animal facilities. Do not wear protective clothing outside of animal facility.
      ii. Wear disposable gloves during procedures that increase the likelihood of exposure to zoonotic agents (e.g. collecting fecal sample). Also wear disposable gloves for handling sick animals or contaminated surfaces and/or equipment.
      iii. Use disinfecting boot dips as applicable.
   c. Animal Care
      i. Isolate sick or infected animals.
      ii. Handle and care for sick or infected animals last.
   d. Cleaning and Disinfection
      i. Maintain clean, dry, and uncluttered animal areas and workspace.
      ii. Disinfect laboratory work surfaces after each use and after any spills when working with animal products. Use only disinfectants approved by facility managers.
      iii. Dispose of deceased animals, animal products, items contaminated by animal products, contaminated bedding, and laboratory waste in an approved manner.
   e. Proper Sharps Handling
      i. Work only with one uncapped needle at a time and immediately dispose of after use in sharps receptacle.
ii. Avoid recapping needles whenever possible.
iii. For further guidelines refer to CARE SOP 711.01-Sharps Precautions.

f. Medical Attention
   i. Contact Gannett Occupational Medicine office (255-6960) for medical evaluation if you suspect any zoonotic exposure, or if you develop any symptoms associated with infection with zoonotic agents (e.g., fever, malaise, diarrhea, abdominal pain). Alternatively, see your own personal health care provider if any injury or potential exposure to a zoonotic agent occurs.
   ii. Notify the principal investigator or supervisor and complete an accident and injury report, http://prp.ehs.cornell.edu/Acc-Inj/
   iii. Allergies
   iv. Handling of bedding, hair, and fur may aggravate allergies.
   v. Proper use of PPE reduces, but does not eliminate the risk of developing allergies. Refer to the Allergy Prevention web page (see References) for further information.

4. References
   a. CARE SOP 713 Hygiene-Hand Washing:
   b. CARE SOP 711.01-Sharps Precautions:
   c. Allergen Prevention
      http://www.research.cornell.edu/Care/documents/OHS/AllergyPreventionFactSheet.pdf
   d. Gannett Health Services, (607) 255-5155 or www.gannett.cornell.edu/