The intent of this Information Sheet is to describe the most common zoonotic agents seen in cats and the safe work practices suggested to mitigate the exposure to these pathogens.

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1. **Introduction:** This document provides information about potential zoonotic exposure while working with cats 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 cats. 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. **Cat-Scratch Fever**
      
      i. **Organism:** *Bartonella henselae*
      
      ii. **Clinical signs:**
         
         1. Animals: none
         2. Humans: Swelling at site of injury, enlarged lymph nodes, fever, headache, fatigue
      
      iii. **Transmission:** Bite or scratch from infected cat
      
      iv. **Prevention:** If bitten or scratched by a cat, immediately flush the wound with soap and water. If bitten, seek immediate medical attention.

   b. **Bite or scratch wound**
      
      i. **Organism:** *Pasteurella multocida*, other bacteria
      
      ii. **Clinical signs:**
         
         1. Animals: Abscess at site of wound
         2. Humans: Abscess or inflammation at site of wound, may rapidly become systemic and life-threatening
      
      iii. **Transmission:** cat bite or scratch; normal flora of cat nasal and oral cavities
      
      iv. **Prevention:** If bitten or scratched by a cat, immediately flush the wound with soap and water. If bitten, seek immediate medical attention.
c. 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.

d. Dermatophytosis (Ringworm)
   i. Organisms: *Trichophyton* or *Microsporum* spp.
   ii. Clinical Signs
      1. Animals - Dry, gray, hairless patches; common on the skin around 
         the head and neck.
      2. Humans - Red round itchy lesion with a ring of scale around the 
         edge.
   iii. Transmission: Direct contact with skin lesions of infected animal. Can 
      also be contracted via contaminated environment.
   iv. Prevention: Wear gloves when handling animals with patchy hair loss and 
      wash hands after removing gloves and before leaving the animal facility.

e. Toxoplasmosis
   i. Organism: *Toxoplasma gondii*
   ii. Clinical signs:
      1. Animals – asymptomatic
      2. Humans:
         a. Healthy nonpregnant – asymptomatic to mild flu like 
            symptoms
         b. Pregnant – miscarriage, stillbirth, or birth defects
         c. Immunocompromised – fever, confusion, headache, 
            seizures, nausea, poor coordination
   iii. Transmission: Oocysts shed in cat feces during first two weeks following 
      infection; humans acquire through accidental ingestion of oocysts.
   iv. Prevention: Proper hygiene following contact with litter box.

f. Rabies
   i. Organism: 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. If handling an 
      animal with unknown rabies vaccine history, report any bites or scratches 
      to facility manager and contact Gannett Occupational Medicine office 
      (255-6960) for immediate medical evaluation.
3. Safe Work Practices
   a. Good Personal Hygiene
      i. 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.
      2. Wear disposable gloves during procedures that increase the likelihood of exposure to zoonotic agents. Also wear disposable gloves for handling sick animals (i.e. animals showing clinical signs such as diarrhea or hair loss), or contaminated surfaces and/or equipment.
   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/
   g. Allergies
      i. Handling of bedding, hair, and fur may aggravate allergies.
      ii. 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.
   h. References
j. CARE SOP 711.01-Sharps Precautions:  

k. Allergen Prevention  
http://www.research.cornell.edu/Care/documents/OHS/AllergyPreventionFactSheet.pdf

l. Gannett Health Services, (607) 255-5155 or www.gannett.cornell.edu/