



Keeping Animals & People Healthy at Fairs

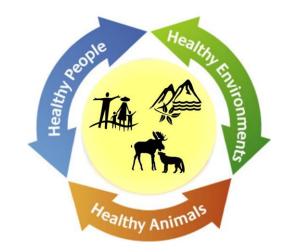
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Topics

- Zoonotic diseases, and the importance of prevention with animals in public settings
- Animal in Public Settings WAC
- Fair preparation: facility design and maintenance, education, cleaning & disinfection, site action plan
- Available resources

One Health

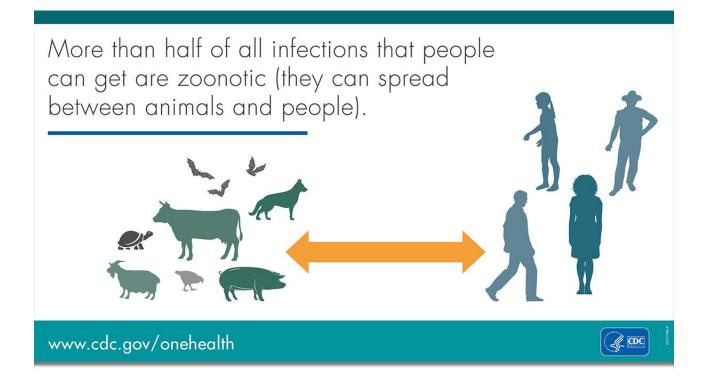
The concept and understanding that human health and animal health are interdependent and bound to the health of the ecosystems in which they exist, requiring a collaborative global approach to understanding risks for human and animal health and ecosystem health as a whole.





Zoonotic & Vector borne Disease

- 60% or pathogens that cause human disease originate from domestic animals or wildlife
- 75% of emerging human pathogens are of animal origin



Certain groups are at higher risk

Higher risk of becoming infected or a higher risk of having more serious outcomes

- Children, especially under age 5
- Older adults
- Pregnant women
- People with compromised immune systems (HIV/AIDS, cancer, transplant patients, certain medications)

Older adults over

Some diseases or exposures of concern

Enteric diseases: E. coli, Campylobacter, Salmonella, Cryptosporidium

Zoonotic influenza

Q Fever

Rabies

Internal parasites

External parasites: fleas, ticks, mites

Chlamydia psittaci

Skin infections: contagious ecthyma, other poxviruses, ringworm

Bites and scratches















How zoonotic diseases are spread between animals and people

- Direct contact with animal fluids/excretions: saliva, blood, urine, mucous, feces, or other body fluids of infected animals
- Contaminated surfaces or objects (e.g., plants, soil, animal habitats, fomites)
- Inhalation
- Eating or drinking something unsafe: unpasteurized milk, untreated water, undercooked meat, feces-contaminated food
- Vectors: being bitten by an insect or tick

Significance of zoonotic diseases in public settings

- For the 10-year period ending in 2020:
 - 156 human infectious disease outbreaks involving animals in public settings
 - Resulted in 6,388 illnesses, 1,233 hospitalizations and 10 deaths
- Substantial medical, public health, legal, and economic effects
- Not possible to completely eliminate risks from animal contact
- Best practice and research-driven ways to minimize risks
- Many jurisdictions have guidelines or regulations

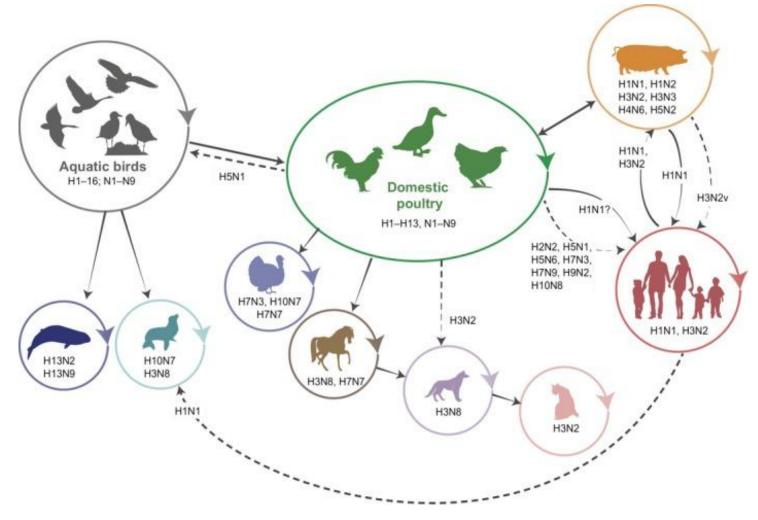


Avian influenza A

- Wild aquatic birds and waterfowl are reservoirs for avian influenza A viruses
- Very contagious among birds
- Viruses can also infect other bird and animal species
- Don't normally infect humans infrequent cases or outbreaks
- Illness ranges from mild to very severe (e.g., 40% case fatality in hospitalized patients)

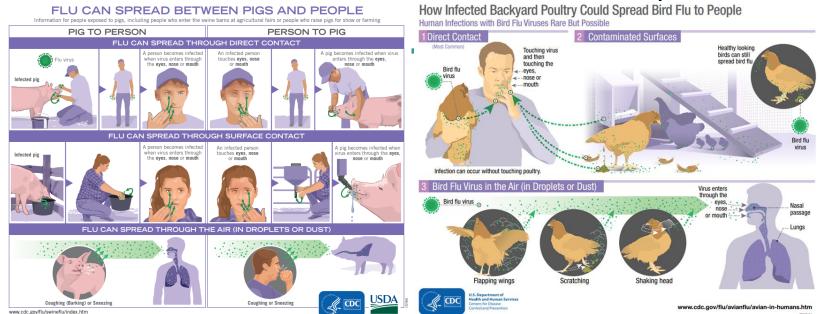




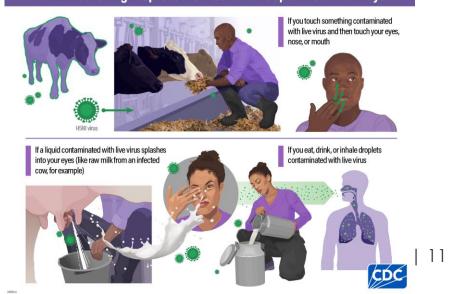


The ecology and adaptive evolution of influenza A interspecies transmission Influenza Resp Viruses, Volume: 11, Issue: 1, Pages: 74-84, First published: 18 July 2016, DOI: (10.1111/irv.12412)

How does zoonotic influenza spread



H5N1 Bird Flu Might Spread from Cows to People in Several Ways



Public health considerations for HPAI

- Exposure to infected animals main risk factor for the infection of humans with animal influenza A viruses
- Monitor animals daily for signs of illness, isolate and contact vet right away
- Exhibitors: handwashing, avoid eating/drinking near animals, keep animals at fair for least amount of time, stay home if sick, know signs of illness in animals and report to manager
- Anyone at higher risk of serious flu complications planning to attend a fair where influenza virus-infected or potentially infected animals will be present should avoid those animals and their enclosures at the fair

WACs to address zoonotic diseases

Relevant legislation for animals in public settings:

WAC 246-100-197 Rabies

WAC 246-100-201 Psittacosis

WAC 246-100-191 Animals- General measures to prevent human disease (ban on small turtle sales, Salmonella, anthrax)

WAC 246-100-192 Animals in Public Settings: Measures to prevent human disease

WAC 246-100-192

An animal venue operator shall provide a handwashing station - or alternative hand sanitizing method - and post a prominent sign in a simple and easy-to-understand format for visitors to see before they enter the animal exhibit area which warns that:

- Animals can carry germs that can make people sick, even animals that appear healthy.
- Eating, drinking, or putting things in a person's mouth in animal areas could cause illness.
- Older adults, pregnant women, immunocompromised people, and young children are more likely to become ill from contact with animals.

WAC 246-100-192

- Young children and individuals with intellectual disabilities should be supervised in animal exhibit areas.
- Strollers, baby bottles, pacifiers, and children's toys are not recommended in animal exhibit areas.

Animal venue operators must also post a prominent sign at each exit of the animal exhibit area reminding visitors to wash their hands.















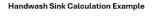


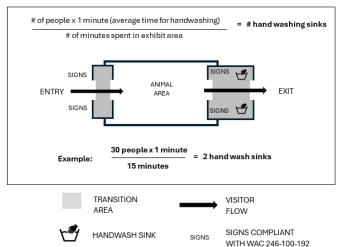
Washington State Fairs Zoonotic Disease Prevention Guide 2024

Facility design and maintenance

- Handwashing location, supply, use
- Animal, transition, & non-animal areas
- In animal areas:
 - No risky items such as strollers, toys, sippy cups, pacifiers, any food/drink
 - Don't allow kids to sit on ground
 - Control visitor traffic
- Barriers, contaminated surfaces
- Adequate ventilation
- Waste protocols







Education

- Awareness of risk is protective against outbreaks
- Managers/operators, staff, volunteers, exhibitors, public
- Handwashing, discourage hand-to-mouth contact, touching contaminated surfaces, etc.
- Multiple modalities:
 - Verbal reminders/education staff or volunteers, handwashing ambassadors
 - Signage, handouts, stickers





Cleaning and disinfection

- Before, during, and after event
- Barns and other animal venues can't be cleaned to food safety or non-animal event standards
- Avoid dry cleaning that can stir up dust, such as vacuuming or leaf blowing
- Remove organic debris, wash with water and detergent, rinse, dry
- Use appropriate disinfectant following label instructions, contact time, rinse, dry

















Plan development and implementation

- Site Action Plan
 - Site map
 - Handwashing station locations and action plan for servicing them
 - Cleaning and disinfection protocols
 - Supporting documents: pre-event checklist, service record logs, cleaning records and a corrective action log
- Monitor plan implementation during event
- Evaluate implementation after event



Additional resources

- Washington State Department of Health, Animals in Public Settings - includes posters/signs and details of WAC 246-100-192: Animal Venue Operator Requirements | Washington State Department of Health
- Compendium of Measures to Prevent Disease Associated with Animals in Public Settings
- Center for Food Security of Public Health Cleaning and Disinfection – valuable resource for the C&D process, including a guide on reading disinfectant labels: Cleaning and disinfection in animal settings - CFSPH (iastate.edu)
- International Association of Fairs and Expositions access to resources like consumer protection programs and disease prevention toolkits for members: https://fairsandexpos.com/
- Tips for Staying Healthy at Animal Exhibits | Healthy Pets, Healthy People | CDC

Additional resources

- Recommendations to Minimize Influenza Transmission at Dairy Cattle Livestock Exhibitions (usda.gov)
- Considerations and Information for Fair Exhibitors to Help Prevent Influenza | Seasonal Influenza (Flu) | CDC
- Considerations and Information for Fair Organizers to Help Prevent Influenza | Seasonal Influenza (Flu) | CDC
- Swine Diseases of Concern at Fairs and Exhibitions from the State Veterinarian
- Issues for Fair Organizers to Consider When Planning Fairs | CDC
- <u>Microsoft Word Measures to Minimize Influenza Transmission at Swine Exhibitions June 2014.docx (nasphv.org)</u>
- Minimizing Influenza Transmission during Exhibitions Checklist for Protecting Guests, Exhibitors, and Pigs



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