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PET-ASSOCIATED DISEASE RISKS

Disease risk greatest

- Extremes of age (<5 yrs, \geq 65 yrs)
- Pregnant
- Immunocompromised

Higher risk groups

- Particular pathogens
- Longer duration
- More severe/unexpected complications

Pet factors



Photo Source: Pixabay



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RELEVANCE OF PET-ASSOCIATED ZOONOSES FOR INFECTION PREVENTION

Healthcare programs

Service animals, patient's pets, therapy animals, visitation animals

Patients

Sick, preventive care, One Health

Simple precautions to greatly reduce risk

Barriers: Lack of knowledge, reduced compliance preventive care

Incorporate into planning & patient history taking



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		Disease in high-risk patients (age < 5 or ≥ 65 yr, immunocompromised or pregnant)	
Pathogen	Key pet sources	Incidence	Severity
Bacterial diseases			
Bartonella species	Cats (B. clarridgeiae, B. henselae); rodents, rabbits, and dogs (B. alsatica, B. vinsonii species)	Low (likely underdiagnosed)	Low to high
Brucella canis	Dogs	Rare	Moderate
Campylobacter jejuni	Dogs, cats (likely other species)	High	Low
Capnocytophaga canimorsus	Dogs, cats	Rare	High
Chlamydophila psittaci	Birds	Rare	Moderate
Leptospira interrogans	Dogs, cats, rodents	Low	Moderate
Multidrug-resistant bacteria (e.g., MRSA, <i>Clostridium difficile</i> , ESBL-producing organisms)	Likely all species (although data limited)	Variable	Variable
Mycobacterium marinum	Fish	Rare	Low
Pasteurella multocida	Dogs, cats	Moderate	Moderate
Salmonella species	All species; high prevalence in amphibians, reptiles, exotic animals, rodents and young poultry, in addition to certain raw pet foods (e.g., meat, eggs and animal product treats, such as pig's ears)	Moderate	Moderate (particularly in newborns and patients with sickle cell anemia)
Parasitic diseases			
Cutaneous larva migrans (hookworms; canine and feline)	Dogs, cats (particularly juvenile animals)	Low to high (depending on geography)	Low
Cryptosporidium species	Dogs, cats, possibly birds	Moderate	Moderate









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CSD: FREQUENCY OF INFECTION

People

- Estimated 22,000 cases diagnosed/yr in US
- Children < 10 yrs (33% of all diagnoses)
- Most often self-limiting benign disease; regional lymphadenopathy

Cats

- Very common (up to 80% seropositive); bacteremia in 25-50% of healthy cats
- Chronic, asymptomatic bacteremia for months to years; esp young cats (< 1 year), flea-infested, strays



Fig. 3. Vascular lesions of bacillary angiomatosis on the right elbow.

Photo Source: M C Madua 2015.

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COMMUNITY ACQUIRED ESBL & AMPC ATTRIBUTED TO...

Other people: 60% (40-74)

Food: 19% (7–38)

Dogs: 5% (0.2-16)

Cats: 2% (0.1–8)

Intracommunity spread alone unlikely to be selfmaintaining without transmission to and from nonhuman sources

Mughini-Gras, 2019

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	NG A TYPICAL 1	WFFK·N=112
		WEEK, N=112j
Category	Frequency	Percentage (95% CI)
Dry	99	88.4% (81.0, 93.7)
Treats	64	57.1% (47.4, 66.5)
Raw fruits/vegetables	46	41.1% (31.9, 50.8)
Wet (canned)	36	32.1% (23.6, 41.6)
Cooked homemade	32	28.6% (20.4, 37.9)
Pet chews	27	24.1% (16.5, 33.1)
Rawhides/Raw bones	17	15.2% (9.1, 23.2)
Dietary supplements	14	12.5% (7.0, 20.1)
Commercial raw	7	6.3% (2.5, 12.5)
Raw homemade	9	8.0% (3.7, 14.7)
Other	5	4.5% (1.5, 10.1)

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Cat Y	Yes		
		Yes	Unknown
erret	Yes	Yes	Unknown
lamster	Yes	Yes	Unknown
Dog	Yes, but rarely	No	Unknown
Big cat (tiger,) ion)	Yes	Yes	Unknown
/ink	Yes	Yes	Likely
ig i	No	No, because can't be infected	No, because can't be infected
hicken 1	No	No, because can't be infected	No, because can't be infected
Juck	No	No, because can't be infected	No, because can't be infected
ruit bat	Yes	Yes	Unknown
Nonkey	Yes	Unknown	Unknown
/louse i	No	No, because can't be infected	No, because can't be infected

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Model Animal Protocols for Long-Term Care Facilities	
This protocol is designed to target key topics related to animats in a long-term care facility (LTCF) likely to affect resident and animal health. Using this protocol as a guide, users are encouraged to adapt it to their facility while continuing to meet the requirements enforced by the <u>Ohio Revised</u> <u>Code 370-17-09</u> . Please refer to the supporting document for an extension of the information and guidelines and state requirements to help inform your decision in developing an animal protocol. Name of facility: Date last updated: Date last updated: Date last updated: Date last updated at the enrichment and entertainment of our residents. There is strong evidence that animals can provide many health benefits and can also create a home-like environment for our residents to enjoy. The following protocols ensure that our residents are benefit from visiting or live- in animals while preventing the risk of injuries and disease to these animals and our residents.	Animals in Ohio long- term care facilities Keep residents safe while enjoying pets
Visiting Animals and Their Handlers. Visiting animals are those brought into the facility to participate in an animal-related activity for all residents at the facility. This includes but is not limited to therapy animals, "petting zoos" animals, and animals used in educational programs. a. The animal must be pre-approved by <u>istaff position and/or internal committee member</u>) before the first visit. Pre-approval includes ensuing the animal meets all requirements of this protocol including but not limited to species, age, health and temperament. i. Approved animals will be entered into a log; <u>istaff position and/or internal committee member</u>) is responsible for overseeing and updating this log. This log will be reviewed yearly as annual temperament and health evaluations are completed. b. The handler is required to provide proof (e.g., health certificate or signed letter from a veterinarian) that within the last year the animal (as indicated for the species): i. Has received a physical examination by a veterinarian including screening for internal and external parasites. ii. Is up-to-date on vaccinations for common infectious agents including rabies.	A guide for administrators, activity coordinators and families
http://www.go.osu.edu/nhpets	THE OHIO STATE UNIVERSITY



www.webbertraining.com/schedulep1.php	
September 17, 2020	REPROCESSING OF CRITICAL FOOT CARE DEVICES Speaker: Clare Barry, Infection Control Consultant, Canada, and Merlee Steele- Rodway, Canadian Association of Medical Device Reprocessing
September 24, 2020	WATERBORNE PATHOGENS: WHY IS THEIR PROFILE CHANGING? Speaker: Prof. Syed A Sattar, Professor Emeritus of Microbiology, University of Ottawa
October 15, 2020	(FREE Teleclass) THE VALUE OF CERTIFICATION - "WHAT'S IN IT FOR ME? Speaker: Sandra Callery, Certification Board of Infection Control
October 20, 2020	(European Teleclass) CAN WE HALVE GRAM-NEGATIVE BLOODSTREAM INFECTIONS? A DEBATE Speaker: Prof. Jon Otter, Imperial College Healthcare NHS Trust, and Martin Kiernan, University of West London
October 20, 2020	(FREE WHO Teleclass - Americas) CLEAN HOSPITALS: THE NEXT FRONTIER IN INFECTION PREVENTION Speaker: Prof. Didier Pittet, World Health Organization, Geneva Sponsored by the WHO Infection Prevention & Control Global Unit

