



ONE WORLD,

ONE MEDICINE,

ONE HEALTH

One Health Intellectual Exchange

Weekly Discussions / Course: Philosophy to Practical Integration of Human, Animal and Environmental Health

A weekly discussion series, sponsored by the **North Carolina One Health Collaborative** within the NCBC IEG Program to enhance collaborations between physicians, veterinarians, researchers and other local/global/environmental health professionals by increasing public awareness of the interconnectedness of people, animals and the environment.

(Available each spring for credit if desired)

12th 2013 Weekly Session - Tuesday, March 26

5:30 – 7:30 p.m.

Canine Zoonoses

Among People Occupationally Exposed to Dogs

What are the Risks?

Whitney Krueger, MPH, PhD

Meets Tuesdays, 5:30 – 7:30 p.m. at the North Carolina Biotechnology Center
15 T.W. Alexander Drive Research Triangle Park, NC 27709

Directions: www.ncbiotech.org/directions

Suggestions? Ideas? Contact Cheryl Stroud, Steering Comm. Chair cms7earth@gmail.com

Add yourself to the listserve with Listserv Manager Liz Selisker, liz_selisker@ncsu.edu

For Speaker Bio's, Suggested Readings, Cancellation notices and additional background

<http://nconehealthcollaborative.weebly.com/index.htm>

<http://onehealtheducation.blogspot.com/>

For more information on the course option contact: Course TA Anne Stine anne.stine@duke.edu

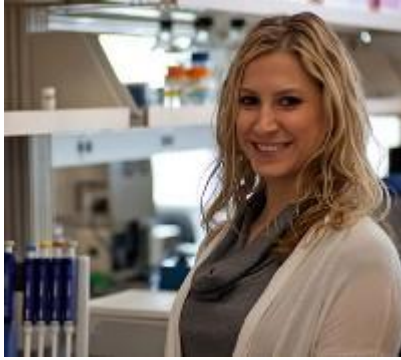
Mamie Harris at UNC msharris@med.unc.edu

Chris Woods at Duke chris.woods@duke.edu

At NCSU Barrett Slenning barrett_slenning@ncsu.edu or Suzanne Kennedy-Stoskopf

suzanne_stoskopf@ncsu.edu





Whitney Krueger, MPH, PhD

Study Coordinator / Post-Doctoral Associate

Global Pathogens Laboratory - Emerging Pathogens Institute

Department of Environmental & Global Health - College of Public Health & Health Professions, University of Florida

CANINE ZONOSSES AMONG PEOPLE OCCUPATIONALLY EXPOSED TO DOGS

Topic Overview:

Overcrowded animal shelters and breeding kennels create the perfect environment for amplified infectious disease transmission among dogs and present a critical opportunity for zoonotic pathogens to emerge and threaten people who work in close contact with dogs. The American Pet Products Association estimates the number of dogs owned in the United States has increased by more than 18 million in the last decade alone. There are now approximately 78.2 million dogs owned in the United States, with 40% of households owning at least one dog. There are also 5,000 US animal shelters, 2,400 federally-licensed dog breeders, and thousands of smaller, undocumented "mom and pop" dog breeders. While veterinarians may be considered the chief at-risk group for many canine zoonotic infections, dog breeders and kennel employees are potentially at greater risk of infection, as they commonly come in direct contact with bodily fluids of dogs, and may do so with less attention to personal protective protocols. Emerging pathogens of particular zoonotic concern include *Brucella canis*, canine influenza virus, and canine respiratory coronavirus.

Dr. Krueger recently completed a seroepidemiological study of more than 300 canine-exposed and 100 non-canine exposed study subjects to examine serological evidence of previous human infections with these canine pathogens. Risk factors associated with seropositivity were also assessed. This seminar will discuss the results of this study, including evidence that people occupationally exposed to dogs may be suffering cryptic *B. canis* infections.

Useful Readings:

Bingham, G.M., C.M. Budke, and M.R. Slater, Knowledge and perceptions of dog-associated zoonoses: Brazos County, Texas, USA. *Prev Vet Med*, 2009.

<http://www.ncbi.nlm.nih.gov/pubmed/19846225>

Grant, S. and C.W. Olsen, Preventing zoonotic diseases in immunocompromised persons: the role of physicians and veterinarians. *Emerg Infect Dis*, 1999. **5**(1): p. 159-63.

http://wwwnc.cdc.gov/eid/article/6/2/00-0219_article.htm

Krueger, W, online 'LabSpaces Blog', Is man's best friend still safe to hug? Sept 28, 2011,
http://www.labspace.net/blog/1476/Is_man_s_best_friend_still_safe_to_hug

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