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
Global Pathogens Laboratory, University of Florida

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 listserv with Listserv Manager Liz Selisker, liz_selisker@ncsu.edu
For Speaker Bio’s, Suggested Readings, Cancellation notices and additional background

For more information on the course option contact: Course TA Anne Stine anne.stine@duke.edu
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At NCSU Barrett Slennning barrett_slennning@ncsu.edu or Suzanne Kennedy-Stoskopf suzanne_stoskopf@ncsu.edu
Whitney Krueger, MPH, PhD

Dr. Krueger is an epidemiologist and study coordinator at the Global Pathogens Laboratory, led by Dr. Gregory C. Gray, within the Department of Environmental and Global Health, College of Public Health and Health Professions, and the Emerging Pathogens Institute, at the University of Florida, Gainesville, Florida. They and their collaborators conduct epidemiological research at the human-animal nexus in the United States and in multiple international settings.

CANINE ZOONOSES 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. 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. This seminar will discuss the results of this study, including evidence that people occupationally exposed to dogs may be suffering cryptic *B. canis* infections.

Suggested Readings:


**Other Useful Readings:**

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


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