



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)

**15th 2014 Weekly Session - Tuesday, April 22nd
5:30 – 7:30 p.m.**

Embracing the One Health Paradigm in Approaching Complex Public Health Problems

Gregory C. Gray, MD, MPH, FIDSA

Professor and Chair, Department of Environmental and Global Health
University of Florida College of Public Health and Health Professions
Director, Global Pathogens Laboratory

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

For more information on the course option, suggestions, or ideas contact NC OHC: nconehealth@gmail.com

For Speaker Cancellation notices and additional background on One Health and the NC OHC:
<http://nconehealthcollaborative.weebly.com/index.htm> <http://onehealtheducation.blogspot.com/>

Facebook: search 'North Carolina One Health Collaborative'; **Twitter:** @NC_OneHealth



Dr. Gray is a Professor and Chair of the Department of Environmental and Global Health in the University of Florida's College of Public Health and Health Professions. He directs the One Health Center of Excellence and the Global Pathogens Laboratory in the University of Florida's Emerging Pathogens Institute. He has a joint appointment in the University of Florida's College of Veterinary Medicine.

He received his MD from the University of Alabama at Birmingham, and his MPH from Johns Hopkins School of Hygiene & Public Health. His medical boards are in Preventive Medicine and Public Health.

He has conducted epidemiological infectious disease research for 25 years in the United States and abroad. In 2010 he was recruited to his present position at the University of Florida. His current research interests include studying animal workers for evidence of occupational infections with zoonotic pathogens, especially respiratory viruses. He leads his Global Pathogens Laboratory team and international collaborators in studying persons with occupational exposure to camels, cattle, ducks, dogs, geese, goats, marine mammals, pigs, and poultry in a number of countries including Bangladesh, Cambodia, China, Georgia, Kenya, Madagascar, Mongolia, Nigeria, Romania, Saudi Arabia, Thailand, and the United States.



A strong proponent of *One Health*, the interdisciplinary approach to problem solving, he developed and directs 3 graduate training programs in One Health: PhD, MHS, and a Certificate. The PhD program is the first in the world. He codirects a NIH-funded Center for One Health in Eastern Europe and has recently won NIH funding for a One Health postdoctoral zoonoses training program in partnership with scholars from Mongolia. He has authored more than 210 scientific reports and book chapters in the peer-reviewed medical literature. Currently, he serves as an Associate Editor for the journal *Infection and Public Health* and on the Editorial Board for the journal *Influenza and Other Respiratory Viruses*. He also serves on the Scientific Advisory Board for the National Marine Mammal Foundation.

Learning Objectives:

- To describe examples of complex public health problems which merit the one health approach
- To review emerging zoonotic influenza threats and how one health research can help to mitigate these threats
- To describe the University of Florida's one health graduate education programs

Recommended Readings:

Monath, Thomas P. "Vaccines against diseases transmitted from animals to humans: A one health paradigm." *Vaccine* (2013).

Gray, Gregory C., and Wu-Chun Cao. "Editorial Commentary: Variant Influenza A (H3N2) Virus: Looking Through a Glass, Darkly." *Clinical infectious diseases* 57.12 (2013): 1713-1714.

Jhung, Michael A., et al. "Outbreak of variant influenza A (H3N2) virus in the United States." *Clinical infectious diseases* 57.12 (2013): 1703-1712.