

**Operationalizing “One Health”:  
*A Policy Perspective—Taking Stock  
and Shaping an Implementation  
Roadmap***

**Dr. Rima Khabbaz**

**Deputy Director for Infectious Diseases  
Centers for Disease Control and Prevention**

**May 4, 2010**



# One Health: *Past and Present*

- Historical precedent
- 20<sup>th</sup> Century move to specialization
- Increase in emerging and re-emerging infectious diseases, zoonotic focus
- The One Health VISION
  - *Manhattan Principles: NYC 2004*

Building Interdisciplinary Bridges to Health in a "Globalized World"

## Evening Presentation



**Symposium Home**

**Schedule**

*with presentation links*

Symposium topics,  
*with presentation links:*

**Introduction**

**Avian Influenza**

**Chronic Wasting  
Disease**

**Ebola**

**Round Table/Closing**

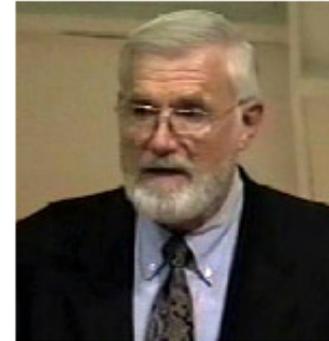
**Evening Presentation**

**"One World, One Health,  
Could We Muddle Through?"**

**Dr. William H. Foege**

**with Introduction to the  
Manhattan Principles,  
Dr. Steve Sanderson**

[Audio of presentation](#)  
[\(MP3, 62 MB\)](#)



*We have an opportunity now to unify human and animal public health work and make it state of the art. . .*

*One of the assets and responsibilities of epidemiologists turns out to be that they actually can see the future . . . People in this meeting today are looking through that window to the future. Do we have the talent and tenacity to paint the picture so everyone can see that future, and then do we have the wisdom to use our knowledge?*

# Contributing to One World, One Health\*

A Strategic Framework for Reducing Risks of  
Infectious Diseases at the  
Animal–Human–Ecosystems Interface

14 October 2008

Consultation Document

Produced by:



UN System  
Influenza Coordination



THE WORLD BANK



One World One Health™: *from ideas to action*

March 16-19, 2009 – Winnipeg, Manitoba, Canada

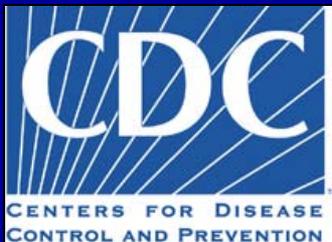
## Report of the Expert Consultation



 Public Health  
Agency of Canada

Agence de la santé  
publique du Canada

Canada



## Operationalizing "One Health": A Policy Perspective - Taking Stock and Shaping an Implementation Roadmap

### When

May 4-6, 2010

### Where

Evergreen Marriott Conference Resort at Stone Mountain in Atlanta, Georgia, USA

The Evergreen Marriott Conference Resort is 16 miles from downtown Atlanta. Rooms include a work area with wireless internet access. Meals will be served in the Waterside Restaurant, overlooking Stone Mountain Lake. Visit the [Evergreen Marriott Conference Resort website](#) for additional information.

### Transportation

Transportation will be provided for all out of town participants from the Hartsfield-Jackson airport in Atlanta to the Evergreen Marriott at Stone Mountain and back to Hartsfield-Jackson airport after the close of the meeting. Otherwise the meeting venue is equipped with all necessary services and facilities to make this a successful meeting.

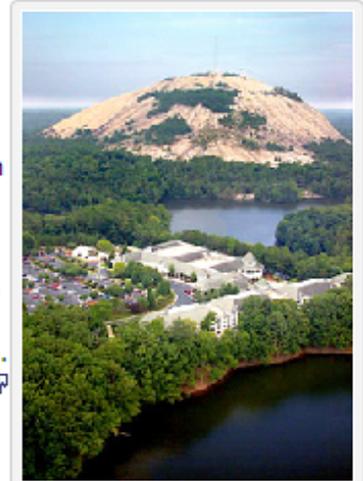
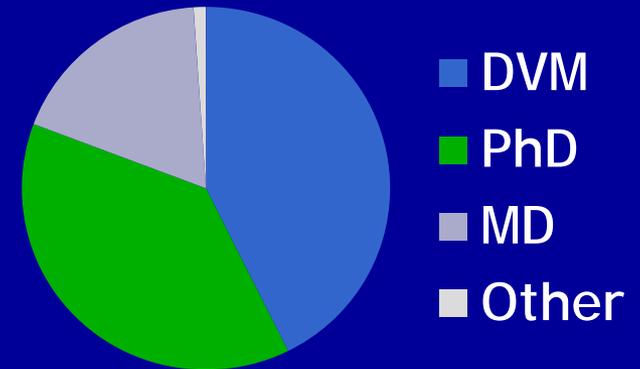


Image courtesy of Marriott Evergreen Conference Resort hotel.

# Global, Multidisciplinary Representation



## Disciplines



## Range of Subject Matter Expertise

Animal Health

Agriculture

Geography

Academia

Human Health

Economics

Microbiology

Research

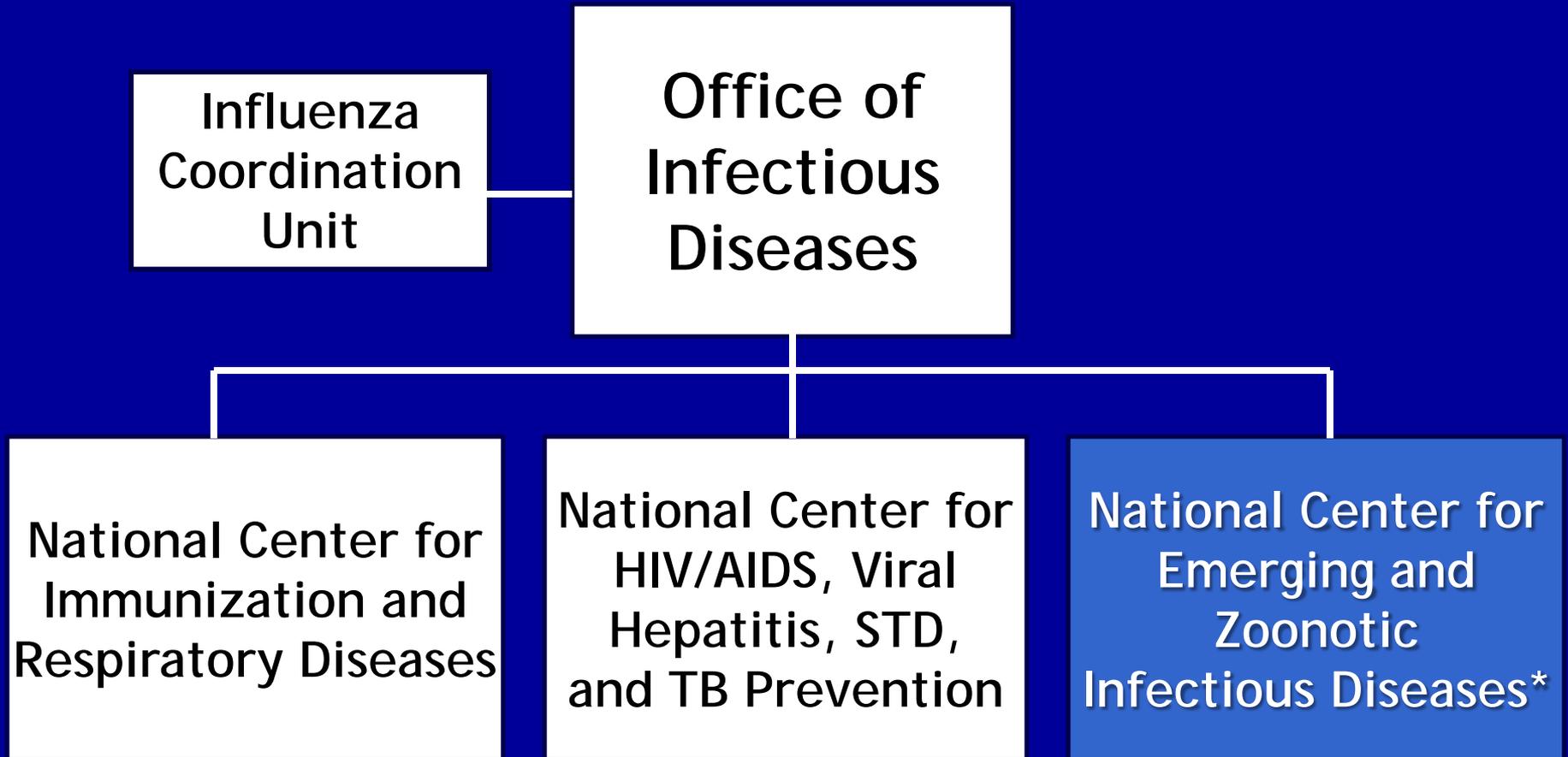
Ecosystems

Wildlife

Livestock

Conservation

# *CDC's Infectious Disease National Centers*



\*proposed



## National Center for Emerging and Zoonotic Infectious Diseases (Proposed)

### Introducing the National Center for Emerging and Zoonotic Infectious Diseases (Proposed)

The proposed National Center for Emerging and Zoonotic Infectious Diseases aims to prevent disease, disability, and death caused by a wide range of infectious diseases. We focus on diseases that have been around for many years, emerging diseases (those that are new or just recently identified), and zoonotic diseases (those spread from animals to people). Our work is guided in part by a holistic "One Health" strategy, which recognizes the vital interconnectedness of microbes and the environment. Through a comprehensive approach involving many scientific disciplines, we can attain better health for humans and animals and improve our environment. To carry out our mission, we use many different tactics: providing leadership in public health, conducting exemplary science, strengthening preparedness efforts, establishing public health policy, sharing vital health information with the public, and building partnerships. Each of the center's seven divisions will focus on improving the public's health in the United States and

Text size: [S](#) [M](#) [L](#) [XL](#)[Email page](#)[Print page](#)[Bookmark and share](#)

#### Contact Us:

 Centers for Disease Control and Prevention  
1600 Clifton Rd  
Atlanta, GA 30333  
 800-CDC-INFO

### Emerging and Zoonotic Diseases At a Glance

**Zoonotic diseases:** Approximately 75% of recently emerging infectious diseases affecting humans are diseases of animal origin; approximately 60% of all human pathogens are zoonotic.

**Refugee health:** An estimated 50,000 to 70,000 refugees are resettled to the United States each year.

*Our Work is guided in part by a holistic "One Health" strategy, which recognizes the vital interconnectedness of microbes and the environment. Through a comprehensive approach involving many scientific disciplines, we can attain better health for humans and animals and improve our environment*

# Selected Infectious Disease Priority Areas

Public Health Preparedness and Response:  
*Building on H1N1 experiences*

One Health: *Human-Animal-Environment  
Interface*

Healthcare-associated Infections

Antimicrobial Resistance

Food Safety

Safe Water

HIV and Sexual Health

Chronic Viral Hepatitis

Immunization

# Pandemic Influenza Planning/Preparedness/Response

- Ongoing pandemic influenza planning/preparedness efforts have engaged multidisciplinary partners, both domestically and globally
- 2009-2010 H1N1 pandemic and One Health
  - Interagency collaboration among human and animal health (USDA, CDC, USAID)
  - Cross communication among animal industry and public health (e.g., National Pork Board, AVMA-companion animals)

Operationalizing "One Health": A Policy Perspective - Taking Stock and Shaping an Implementation Roadmap

The Next  
2½ Days

- Assess current state of One Health
- Identify and build upon successes and lessons learned (e.g., H1N1 response)
- Identify opportunities and barriers to implementing One Health
- Formulate strategies

# *Meeting Focus*

- Explore economics and policies of One Health
  - Cost-benefits, potential losses due to inaction
  - Successes with and challenges to effective policies decisions
- Determine value-added from shifting toward a One Health approach

# CDC's Agency-Wide Public Health Priorities

- Strengthen surveillance, epidemiology, and laboratory services
- Improve ability to support state, tribal, local, and territorial public health
- Increase global health impact
- Increase policy impact
- Better prevent illness, injury, disability, and death