One Health Activities at the United States Centers for Disease Control and Prevention (CDC)

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Carol Rubin, DVM, MPH
Associate Director for Zoonoses and One Health,
Chief, One Health Office
One Health is an approach to solving health problems that acknowledges the overlap of different sectors.
Sentinel Events in the U.S. Evolution of One Health: CDC Leadership

- **1992**
  - IOM Forum on Emerging Diseases (CDC and NIAID)

- **1994**
  - PulseNet and FoodNet (CDC, FDA, USDA)

- **2004**
  - WCS and Columbia U → One World One Health™

- **2009: CDC One Health Office**
  - Located within the National Center for Emerging and Zoonotic Infectious Diseases, but working across CDC Centers

- **2012: CDC Review of One Health role in human public health agencies**
  - Internal and external interviews
  - Internal inventory
One Health Activities at CDC
National Center for Emerging and Zoonotic Infectious Diseases (NCEZID)

“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.”

http://www.cdc.gov/ncezid/
CDC One Health Global Activities and International Staff Working at the Animal-Human Interface

- Food and Agriculture Organization of the United Nations
- World Organisation for Animal Health
- Centers for Disease Control and Prevention
- Guinea
- Egypt
- India
- Nigeria
- Kenya
- Uganda
- Thailand
- Bangladesh
- Vietnam
- China
- Georgia
- Kazakhstan
- South Africa
- Democratic Republic of the Congo
- Guatemala
Field Epidemiology Training Programs

- 2-year applied epidemiology training program
- Modeled after CDC’s Epidemic Intelligence Service
- ~25% class work / 75% field assignment
- Graduates may receive a certificate or degree
- CDC has supported the development and implementation of 49 FETPs since 1980, 16 of which are now operating independently. As of January 2013, CDC supports 21 two-year FETPs that cover 33 countries
CDC-supported FETPs as of December 2013
CDC One Health Review

• 2012 review of what One Health should look like at a human public health agency
  – Internal and external interviews
  – Inventory of current CDC “OH” activities

• Findings
  – Positive
  – Many One Health activities without the OH name
  – Room for improvement:
    • Better communication: website, social media
    • More domestic attention
    • Accentuate OH accomplishments at CDC
One Health

The One Health concept recognizes that the health of humans is connected to the health of animals and the environment.

CDC uses a One Health approach by working with physicians, ecologists, and veterinarians to monitor and control public health threats. We do this by learning about how diseases spread among people, animals, and the environment.

One Health Topics

- About One Health
- Zoonotic Diseases
- History of One Health
- One Health in Action
- Domestic One Health Activities
- Global One Health Activities

Resources

- Stone Mountain Meeting
- One Health Related Meetings
- Recent One Health Publications
- Presentations and Podcasts
- Training
- Related Links

One Health Office

CDC’s One Health Office (OHO) works to promote the concept of One Health and to guide CDC approaches to One Health. This includes prevention, detection, and control of emerging (or reemerging) diseases.
The One Health concept recognizes that the health of people is connected to the health of animals and the environment. This video provides a brief introduction to One Health and why it is important for public health professionals, veterinarians, ecologists, and environmental health professionals to work together. By promoting this collaboration, CDC keeps people safe and healthy. More information about One Health at CDC can be found at: http://www.cdc.gov/onehealth.
CDC One Health Review Results
Recommendation: more domestic interactions

- Monthly calls with state agencies
  - Selected Zoonotic Diseases Conference Call
- Regular internal meetings
  - CDC Zoonotic Diseases Working Group
- USG Inter-Agency One Health Working Group
  - Communication and exchange of information among USG Agencies
- Increased collaboration with non-traditional partners
  - Zoonoses Education Coalition
  - 4-H
  - Academia
One Health: definitely progress but at a crossroad
Thank You

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333
Telephone, 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348
E-mail: cdcinfo@cdc.gov  Web: www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.