One Health Collaborations in US State / Local Government & Policy Webinar – Part 2

October 24, 2019

Hosted by the One Health Commission and the International Student One Health Alliance
ISOHA

Neil Vezeau, BS

- ISOHA Trustee
  - Immediate past president
- 3rd-year DVM/MPH Student at Iowa State University

Anastasia Lambrou, BS, MPH

- ISOHA Trustee
  - Immediate past Vice President for Members
- 4th-year PhD Candidate at the Johns Hopkins Bloomberg School of Public Health
ISOHA aims to connect, create resources, and promote the One Health concept to students globally, irrespective of their field of study.
Attendees will:
● Learn who major change-makers are in One Health in U.S State and Local Governments
● Learn practices for promoting One Health collaboration in government
● Be able to apply this in their own One Health related-work
● Form a community/forum around One Health in State and Local Governments

Webinar Purpose & Goals

Purpose:
● Connect U.S. State and Local Governments working in One Health
● Create a forum for U.S. State and Local Governments working in One Health to share their experiences
● Initiate communications and collaborations between U.S. State and Local Governments working in One Health

Attendees will:
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Forming Collaborations that transcend disciplinary boundaries

Cheryl Stroud, DVM, PhD
Executive Director

Connect, Create, Educate
Connecting One Health Stakeholders – we can accomplish more together!

One Health-Social Sciences Initiative
Engaging Social Scientists in the One Health Concept

http://bit.ly/2k7Uon
http://bit.ly/2s15Ox
Connecting One Health Stakeholders – we can accomplish more *together*!
Educating about One Health and One Health Issues

One Health Educational Resources

- Basic Guide for developing K-12 One Health lessons
- K-12 Educational Resources

One Health for One Planet (1HOPE) Education Initiative

The World We Need

Preparing Society to Create the World We Need Through One Health Education

OHC BRET - Bat Rabies Education Team

ONE WORLD
ONE HEALTH

"Human or livestock or wildlife can't be discussed in isolation. There is just one health."

—William R. Kerr, Infectious Disease

ONE HEALTH means that animal, human, and environmental health are connected. ONE HEALTH is a way of seeing why disease outbreaks occur when and where they do, and how to stop them from spreading.
To establish in the US an Inter-Agency One Health Program
Groups Featured today

Arizona One Health in Government
Heather Venkat, DVM, MPH, DACVPM

Connecticut Global One Health Coalition
Willow Lake, RN, MPH, MA, REHS/RS

OH Awareness - Kentucky
Kelly Giesbrecht, DVM, MPH

Tennessee One Health Committee
Mary-Margaret Fill, MD

University of Alaska Fairbanks Center for One Health Research
Arleigh Reynolds, DVM or Kelsey G Nicholson, MPH

Uxbridge, Massachusetts Board of Health
Joann Lindenmayer, DVM, MPH
ONE HEALTH EXPLORATION DAY

One Health is the idea that the health of humans, animals, and the environment are all connected.

Arizona teens ages 13-17 are invited to attend a FREE interactive One Health career exploration workshop!

Tuesday, August 16, 2016 – 8:00am - 5:00pm
(Breakfast & lunch provided)
Black Canyon Conference Center
6540 N. 35th Ave. Phoenix, AZ 85016

- Learn about Public Health, Veterinary Medicine, Animal Agriculture, Wildlife Biology & more.
- Network with Arizona professionals in these fields.
- Become a Disease Detective and One Health Champion!

2019 Southwest One Health Symposium
Connecticut Department of Agriculture

Willow Lake RN, MPH, MA, REHS/RS

Agriculture Marketing and Inspection Representative II
Co-chair: Connecticut Global One Health Coalition
Connecticut Global One Health Coalition

• How did the project or group begin? Our group started with the vision to connect state agencies, stakeholders, and educators to promote the One Health Framework.

• What stakeholders are involved? CT DoAg, USDA, UConn Extension, UConn Medical, Yale, CT DPH, stakeholders.

• What is the structuring and funding like? Run through the CT Dept. of Agriculture. No separate funding.

• Successes: Program and course development. Increased collaborations and interest.

• Challenges, funding, policy, siloed thinking.
Systems Approach to Healthy People
2020 Topics

• Legislative Proposal 2018 “An Act Concerning Creation of a One Health Coalition.”

• Bureau of Regulatory Services: Responsible for administering Agriculture's regulatory functions relative to public health and safety, animal health and food safety utilizing a multidisciplinary collaborative approach.

• Partnerships increased as: Member of State Health Improvement Plan Healthy Connecticut 2020, Partners Integrating Efforts and Improving Population Health (Maternal Infant and Child, Environmental Health, chronic and Infectious disease prevention, Injury and Violence Prevention, mental health, health systems).

• Food Safety Committee

• Collaborative Team member on the development of a voluntary initiative to create a rapid response team on food safety in Connecticut related to food and animal feed.
BUREAU OF REGULATORY SERVICES

ZOONOTIC DISEASE

Animal Health and Office of the State Veterinarian

- Animal and Poultry Disease Prevention and Control Programs, on farm site visits to obtain samples directly from animals and products
- Active and Passive Animal Disease Surveillance Testing, Brucellosis, Avian influenza, rabies
- Inspections at Major Agricultural Fairs for animal health compliance.
- Animal Movement Control
- Animal Disease Traceability and Animal I.D.
- Quarantine Orders
- Emergency Animal Disease Response Activities
- Owners exhibiting animals at fairs and other events must comply with the Department’s fair and show requirements. These can be found at the link below.
- Partnerships with Public Health, USDA, local health departments, consumer protection and stakeholders.
Produce Safety and Agritourism

- Development of a regulatory inspection program for farms that grow, harvest, pack and hold fresh fruits and vegetables sold for human consumption.

- Authorized by Public Act No. 17-208 which designated DoAg as the state agency to implement the Food Safety Modernization Act’s Produce Safety Rule. A cooperative agreement with the FDA provides funding for this program.

- Many produce farms have “Pick your Own” and “Community Supported Agriculture” (CSA) operations. These events invite the public to enter the farms, tour fields, pick their own produce and vegetables while interacting with any animals that may be present.

- DoAg’s produce safety activities aim to reduce the risk of microbial contamination in fresh fruit and vegetables grown in Connecticut and assist this state’s farmers with access to markets.

- Partnerships with Public Health, USDA, local health departments, consumer protection and stakeholders
Animal Feed in Agritourism

- Through FDA, the Animal Feed Regulatory Program Standards (AFRPS) are being implemented within the Department’s Animal Feed Program. This program serves as the basis to evaluate and improve aspects of feed regulation in Connecticut.

- The Food Safety Modernization Act Preventive Controls for Animal Food has established safety requirements for animal feed manufacturing, processing, packing, and holding animal food which include current good manufacturing practices and food safety plans.

- Federal and State regulations safeguard animal feed to ensure that it is unadulterated and safe.

- The Connecticut Animal Feed Program collects feed samples for testing; inspects feed facilities; registers and reviews pet food, pet treat, and animal feed labels; assists with recalls (if necessary); and investigates complaints related to animal feeds.

- Partnerships with Public Health, USDA, local health departments, consumer protection and stakeholders

- Promotion of the Animals in Public Places Compendium for local and state public health professionals as well as industry stakeholders.
CT Shellfish Program operates as part of the National Shellfish Sanitation Program (NSSP)

CT’s program falls under the jurisdiction of the CT Department of Agriculture Bureau of Aquaculture who act as the State Shellfish Control Authority

NSSP is a cooperative program consisting of State, FDA, and Industry partners
AG WELLNESS

- Development of a new AG Wellness Committee
- Partnerships are essential - working with stakeholders, UCONN Extension, other state, local, federal agencies in assessing the need for outreach and education on mental health and suicide prevention in all professional communities related to agriculture. One Health approach in economic impact, social and health disparity impacts related to outbreak response and prevention.
- Target Audiences are stakeholders, business partners, industry partners, veterinarians, youth groups, and families.
Education and Outreach

• Webinar offered on “CT Train” for environmental and public health professionals in collaboration with Yale University, CT DPH and USDA. Offered as a Continuing education credit. Utilizing a case study to demonstrate partnerships and collaborative roles in an outbreak situation. Offered through out the East Coast.

• Development Course to be offered between the UCONN School of Medicine, Community Health and Medicine, UCONN College of Agriculture Health and Environmental Resources that would function as a capstone requirement for undergraduates and an elective for MPH and medical and dental students.
Education and Outreach cont.

- UCONN School of Medicine, Community Health and Medicine development of a Individualized Learning experience for Medical students that utilizes field visits and case studies to demonstrate the partnerships in outbreak situations related to zoonosis, food safety, environmental contamination etc.

- UCONN School of Medicine, Community Health and Medicine development of a semester long curriculum for graduate students in public health, medical and dental students that utilizes the systems approach, risk assessments and case studies to demonstrate the partnerships in outbreak situations related to zoonosis, food safety, environmental contamination ect.

- Development of a high school camp offered by the UCONN School of Medicine, Community Health and Medicine to potential public health students utilizing One Health approach.
MARKETING DIVISION

PROGRAM LEAD: ERIN WINDHAM

Member of CT Food Action Plan: goal is to organize all food actors toward one food system to identify regulatory changes and policy recommendations. Supporting farms and food businesses to ensure food access and utilization of sustainable farming practices. Utilizes Farm Aid, John Merck Fund, Hartford Foundation of Public Giving, Connecticut Food System Alliance, working with Food Share: engaged state and government legislature, farmland access trainings, farmer networking, developing local food policy councils.

Utilize USDA and CT Data Haven data to create base information on food security this will be utilized to identify where change/improvements may be made and what are strengths are.

Goals are SNAP, Federal Nutrition Programs, urban Agriculture, food retail, farmland preservation and participation in the national state food action plan summit in Detroit.
Social Media
Program Lead: Rebecca Eddy

• Multiyear, Statewide Marketing and Advertising Campaign: RADIO, DIGITAL, PRINT, EVENT, AND SOCIAL MEDIA ADVERTISEMENTS

• Connecticut Milk Promotion Board sponsored Dairy Day at the Hartford Yard Goats baseball park on June 9, 2019, to increase awareness and promote June Dairy Month activities happening on farms throughout the state. Partnering agencies and/or organizations, if any: DAS, Connecticut Department of Public Health (DPH), Journal Communications/Farm Flavor Media, Hartford Yard Goats, and program participants.

• Connecticut Grown along with the Connecticut Farm Wine Development Council, Connecticut Seafood Council, and Connecticut Milk Promotion Board to support the third annual Connecticut Grown magazine released in May 2019. It was produced by Journal Communications/Farm Flavor Media and funded through advertisements. The publication, produced in both print and interactive online formats, educates consumers, policy makers, and other stakeholders about Connecticut agriculture

• The Connecticut Farm Wine Development Council, Connecticut Seafood Council and Connecticut Milk Promotion Board, under the administration of DoAg, are promoted to increase consumer awareness and increase sales.

• Connecticut’s dairy farm families are promoted in conjunction with the Connecticut Milk Promotion Board, which promotes consumers to visit their website to meet a local dairy farmer and encourages visits to and sales of milk and added-value dairy products.
• DoAg continues an active social media campaign building on prior years. To promote Connecticut Grown products, increase awareness of DoAg programs and services, and better connect with consumers about the importance of Connecticut agriculture.

• To date DoAg’s eight Facebook pages have reached a total of more than 34,700 fans combined, an increase of 50% over 2018 with more than 1.2 million people reached with messages and information related to Connecticut agriculture.
MARKETING DIVISION
PROGRAM LEAD: JAMIE SMITH

• WIC and SNAP programs
• Working on food distribution
• Closing health and social disparity gaps to promote food access and increase economic contribution of agriculture.
Students for One Health Organization: https://uconntact.uconn.edu/organization/onehealth

Global One Health: Irish and US Perspectives, three credits, Students benefit from Dr. Shelia Andrew’s and Dr. Sandra Bushmich’s connections in dairy and cheese production and aquaculture, meeting with leaders in the industries in the United States and Ireland.
CONNECTICUT
DEPARTMENT OF AGRICULTURE

Bruce A. Sherman, DVM, MPH
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Co-chair: Connecticut Global One Health Coalition

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CT Dept. of Agriculture
October 24, 2019

ONE HEALTH COLLABORATIONS IN US STATE/LOCAL GOVERNMENT AND POLICY - WEBINAR
Kentucky One Health Awareness

Kelly H. Giesbrecht, DVM, MPH
State Public Health Veterinarian

October 24, 2019

Dr. Angela Dearinger, Commissioner
Quarterly Meetings

• Hold quarterly meetings
• Change the location to accommodate different professionals and agencies

• Partners:
  • KY Dept. of Fish & Wildlife
  • KY Dept. of Agriculture
  • Univ. of Kentucky
  • USDA/APHIS
  • Humane Society
  • KY Dept. for public Health
  • KY. Division of Lab Services

• Topics:
  • Vector Surveillance
  • Chronic Wasting Disease
  • Campylobacter in Puppies
  • Ticks in Kentucky
  • Leishmaniosis
  • Rabies coordination between agencies
  • Networking time
Annual Conference

• New for 2020!
• In coordination with KY Dept. of Agriculture, 1 day conference, 1st quarter
• Theme: Vector-borne Disease & Issues
• Lunch will be provided
• Hope to get more MD’s & students involved
One Health Approach: Events

• **Bat Exposure in a Camp:**
  • Three groups of exposed campers
  • Located, interviewed and assessed need for rabies PEP
  • 87 contacted using novel methods due to poor contact information

• **Coordination with:**
  • KY Dept. for Fish & Wildlife
  • Preparedness
  • University of Kentucky
  • Regional Epidemiologists
  • Local Health Depts.
  • KY Dept. for Public Health
One Health Approach: Events

**Tularemia:**
- 20 dead rabbits in a field used for beagle trials
- Rabbit tested positive: Tularemia
- Closed fields to evaluate for tularemia health risk
- Call trial participants
- Conduct tick drags
- Test Ticks for Tularemia
- Soil testing

**Coordination with:**
- KY Dept. for Fish & Wildlife
- Preparedness & Emergency Management
- CDC
- Eastern KY University, University of KY.
- Barren River Health Department
- KY. Dept. for Public Health
- Breathitt Veterinary Lab
- US Geological Survey
- KY. Dept. of Agriculture
Areas for Improvements

• More networking
• More joint projects
• More medical staff involvement
• Networking with other states for idea sharing

Glad to be part of the multistate Tick Surveillance Working group!
Thank you!

Kelly H. Giesbrecht, DVM, MPH
KY State Public Health Veterinarian
Tennessee One Health Committee

- Established in 2009
- Co-led by the Tennessee Department of Health and Tennessee Department of Agriculture
Tennessee One Health Meetings

- Meet bimonthly (6 times per year)
- 1.5 hour meetings
  - Location rotates
  - In-person attendees and broadcast via webinar
  - Content: 2 educational presentations + updates

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<tr>
<th>Meeting Date</th>
<th>Location</th>
<th>Presenter 1</th>
<th>Topic 1</th>
<th>Presenter 2</th>
<th>Topic 2</th>
<th>Presenter 3</th>
<th>Topic 3</th>
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<td>11/8/2018</td>
<td>Ag (Porter)</td>
<td>Douglas Meckes</td>
<td>NC Hurricane Response</td>
<td>Tyler Means/Danny Ripley</td>
<td>Salmonella Outbreak</td>
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<td>1/31/2019</td>
<td>State Lab</td>
<td>Walter Cook</td>
<td>CWD Response</td>
<td>Sara Clariday</td>
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<td>5/23/2019</td>
<td>Ag (Porter)</td>
<td>Kate Varela</td>
<td>CDC One Health</td>
<td>Leslie Seraphin</td>
<td>RB51</td>
<td>John Dunn</td>
<td>Raw Milk in TN</td>
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<td>7/25/2019</td>
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<td>Jeremy Hooper</td>
<td>PFAS</td>
<td>Mugdha Golwalkar</td>
<td>E. coli O103 Outbreak</td>
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<td>9/26/2019</td>
<td>Ag (Holeman)</td>
<td>Ann Garvey / Katie Rumsey</td>
<td>Opioids / Vets</td>
<td>Samir Hanna</td>
<td>Live poultry Salmonella</td>
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Example Collaborations

- HPAI Outbreak (2017)
- Seoul virus infections (2016–2017)
- *Salmonella* infections in backyard flocks (annually ...)
- Harmful algal blooms (2019)
- *Streptococcus zooepidemicus* in swine facility (2019)
- Chronic wasting disease (2018)
Possible Future Directions

● Expand to include other agencies and academic partners
● Annual One Health Day event
● Collaborate with neighboring states on projects
● ... and more!

Thank you!
Contact: One.Health@tn.gov
with questions

Website:
Tennessee One Health
One Health in the Circumpolar North:

Where are we now and where can we go?
One Health recognizes the interdependence of human, animal, and environmental health, and that a holistic approach to the wellbeing of all will lead to improved health outcomes and enhanced resilience.
One Health has always been part of an Indigenous worldview providing a vision for a sustainable future.
Center for One Health Research - A Holistic Approach

• Not only absence of disease
• Individual and community health and well-being
• Physical health
• Mental health
• Behavioral health
• Cultural health
• Spiritual health
Our One Health Initiative: A three pronged approach

- RESEARCH
- EDUCATION
- OUTREACH
RESEARCH

Existing programs:

- INBRE IV
- BLaST
- CANHR
- WLTL
New programs:

- Authentic partnership across Alaska: UA system, ANTHC, CDC, SCF, YKHC, community leaders
- Build interdisciplinary teams
- Facilitate grant writing and research mentorship at all levels
EDUCATION

Current Efforts:

• Veterinary Medicine
• One Health Masters
• SEPA RASOR
• ACHILL
OUTREACH

Existing Programs:

• Frank Attla Youth and Sled Dog Care Program
• HOP Y-K delta
• WOTA Workshop
• One Health, One Future
Upcoming Meetings

- **One Health, One Future 2020 International Meeting**
  March 11-14, 2020

One Health - Planning Committee
Arleigh Reynolds, (ajreynolds@alaska.edu)
Mary Ehrlander
Pips Veazey
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One Health at the Local Level

Joann Lindenmayer DVM, MPH
Board of Health
Uxbridge, MA
Why is One Health important at the local level?

- Politician’s constituencies can advocate for One Health-related approaches and initiatives
- The “grassroots approach” complements major policy initiatives
Uxbridge, Massachusetts
One Health Initiatives at the Local Level

- Municipal Vulnerability Planning
- Training first responders in pet rescue
- Vector-borne diseases
  - Eastern Equine Encephalitis, West Nile Virus
  - Lyme Disease
- Community Emergency Management Plan (CEMP)
- Minimum Animal Keeping Standards
Minimum Animal Keeping Standards

- Purpose: As the Uxbridge Board of Health is responsible for the protection of public health, safety and welfare in Uxbridge, and the health of the public is dependent upon the health and welfare of animals and the environment, these regulations are promulgated to provide for the orderly licensing and regulation of domestic animals, to provide minimum standards for their well-being and safe keeping, to prevent and/or punish the improper care and training of said animals, to assist planning for potential disaster and bioterrorism events, and to enable residents to have the opportunity to participate in the growing national trend for responsible, small scale agricultural production and commercial enterprises involving animals that do not meet the definition of commercial agriculture.
Animal Keeping Standards

Highlights

- Exempts service dogs, police dogs and dogs owned by persons over 70 years from license fees
- Housing standards for commercial kennels, including lighting, ventilation, fire prevention
- Requires plot plan with details for manure disposal, pest and feed management for livestock
- Allows keeping 7 backyard chickens
- Prohibits keeping poisonous snakes, reptiles
- Under discussion: to ban or issue temporary permit for display of animals for entertainment, amusement
- Persons convicted of cruelty to animals prohibited from owning animals for 4 years
- Absolves good Samaritans who free animals from hot/cold cars from liability for damage to vehicle
THANK YOU

Joann Lindenmayer DVM, MPH
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Mobile: (617) 771-7823
Discussion

- How do we want to continue building this One Health / Public Health community?
  - Partner with any existing organizations of public health workers?
- Would you be interested to learn how international governmental agency groups are implementing One Health?
Thank you for participating!

Contact us and each other!

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