Synergizing One Health Collaborations

Photo Credit: www.pixabay.com
AGENDA
Synergizing One Health Collaborations

I. Welcome and Thank You for participating - Cheryl Stroud, One Health Commission (3 min)
   A. This meeting is an ‘ACTION’ for true collaboration among those of us sharing a common vision.
   B. Dr. Laura Streichert, Co-Chair of the One Health Social Sciences Initiative, (http://bit.ly/2GxZnqQ) will help moderate, open microphones and be the keeper of the clock. A few logistics....
   C. Each participant will have a total of 6-7 minutes. If time allows we will take 1-2 questions at the end of each presentation.
   D. Content of all slides and email addresses will be combined into one document and shared after the October 24 meeting for follow up collaborations.

II. The purpose of this meeting - George Lueddeke (3 min)

III. Organization Presentations (see schedule below for October 17 and for October 24)

IV. Brief Discussions / Summary – George Lueddeke
One Health Opportunities
Online Bulletin Board

https://www.onehealthcommission.org/en/resources__services/

One Health Happenings!


Smithsonian Museum of Natural History Exhibit
http://bit.ly/2HD3iYS
# Synergizing One Health Collaborations
## Organization Presentations
### October 17, 2018

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<thead>
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II. The purpose of this meeting (3 min)

Dr. George Lueddeke
Chair, One Health Education Task Force

Congratulations on George’s new book:
‘Survival: One Health, One Planet, One Future’
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One Health in Action at the CDC: Protecting Health in the United States and Around the World

CAPT Casey Barton Behravesh MS, DVM, DrPH, DACVPM
Director, One Health Office
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention
www.cdc.gov/onehealth
CDC’s One Health Office – Key Focus Areas

Achieving Optimal Health Outcomes for People and Animals

- Zoonotic and Emerging Infectious Diseases
- Influenza and Pandemic Preparedness
- One Health Issues and Emergencies at the Human-Animal-Environment Interface
- Global Health Security
- Advancing One Health in the United States and Globally
- Preventing Zoonoses Shared Between People and Pets
Highlights: One Health Activities in the United States

- **Provide** technical assistance, expertise, and policy input on One Health projects, emergencies, and issues
- **Coordinating** federal One Health Zoonotic Disease Prioritization activities in collaboration with DOI and USDA
- **Address** IHR core capacities from US Joint External Evaluation and US National Action Plan for Health Security
- **Lead** One Health Federal Interagency Network (**OH-FIN**) 
- **Partner** with US government partners, industry, professional organizations, and others on zoonoses prevention
Highlights: One Health Activities around the World

- **Provide** technical assistance to >20 countries
- **Partner** with key global organizations (WHO, others)
  - **Host** CDC Loaned Experts
    - Food and Agriculture Organization of the United Nations (FAO)
    - World Organization for Animal Health (OIE)
- **Serve** as head of OIE Collaborating Center for Emerging and Reemerging Zoonotic Diseases
- **Support** Global Health Security Agenda (GHSA) activities
- **Lead** CDC’s One Health Zoonotic Disease Prioritization process and national One Health Strategic Planning workshops
One Health Zoonotic Disease Prioritization

One Health Zoonotic Disease Prioritization Workshop

What is the purpose of the One Health Zoonotic Disease Prioritization Workshop?
- Effective mitigation of the impact of emerging and re-emerging zoonotic diseases on both human and animal populations
- Capacity building and development of tools to improve disease response mechanisms
- Staf and stakeholders to collaborate and share expertise

Why conduct a One Health Zoonotic Disease Prioritization Workshop?

Workshop participation can lead to sustainable improvements in:
- Biodiversity and ecosystem health
- Global food security and humanitarian needs
- Health outbreak preparedness
- Capacity building and training

Most commonly prioritized zoonoses:
1. Rabies
2. Zoonotic Influenza viruses
3. Viral Hemorrhagic Fevers
4. Brucellosis
5. Anthrax

For more information, visit: www.cdc.gov/onehealth/global-activities/prioritization.html
Healthy Pets, Healthy People

www.cdc.gov/healthypets
1st Wednesday of month, 2pm ET

NEW: Free Continuing Education

>8,000 invitees from local, state, & federal human and animal health departments, organizations, academics, and many other partners

Call topics include timely updates on
  - Companion animals, livestock, and wildlife zoonoses
  - Emerging infectious diseases
  - Vector-borne, foodborne, and waterborne diseases
  - Updates on recent outbreak investigations
  - Environmental health issues
  - Prevention programs, guidance, and resources
  - Upcoming public health events and activities

To subscribe visit, https://www.cdc.gov/onehealth/zohu/

To suggest topics, contact ZOHUCall@cdc.gov
One Health is the collaborative effort of multiple disciplines and sectors – working locally, nationally, regionally, and globally – with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and our shared environment.
For more information, contact CDC 1-800-CDC-INFO (232-4636)

Contact: CBartonBehravesh@cdc.gov or onehealth@cdc.gov
Subscribe to updates at www.cdc.gov/onehealth

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.
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Ongoing One Health Initiatives with Partners

- Institutionalizing One Health: from Assessment to Action

- Role of environment in health security
  - CBD COP14: biodiversity mainstreaming for health
  - Country Assessment of Environmental Health Services

- One Health Economics

Dr. Catherine Machalaba presenting
One Health recognizes that the health of people is connected to the health of animals and the environment. It is an approach to designing and executing programs and research in which a number of sectors communicate and work together to achieve better public health outcomes.

To register go to www.eeds.com/live/418145

For information about agenda and hotel, etc go to: einstein.yu.edu/centers/global-health/events/one-health-approach.aspx

For more information email jill.raufman@einstein.yu.edu

Intended Audience: Infectious Diseases, internal medicine physicians and Veterinary medicine, environmental health, Public health

ACCME Statement: Albert Einstein College of Medicine of is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Statement: Albert Einstein College of Medicine designates this live activity for a maximum of 10.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register here!
Veterinary Public Health Group


- **Annual Meeting**: 11-14 November (San Diego); CE credit for veterinarians and vet. technicians (15 hours)
  - Connecting the human-animal bond and health benefits across the economy
  - Driving Global Climate Change Action to Protect Health: Health Sector Leadership, Organizing and Engagement (Inter-Sectional session)
  - One Health: Addressing threats, impacts, and opportunities at the human-animal-ecosystem interface as a result of human health equity
  - Emerging infectious diseases and the One Health perspective
  - Health disparities across Humans, Animals, and the Environment

- **Newsletter and social media** outreach (@APHAVPH)

- **Proposed Annual Meeting 2020 theme**: *Creating the Healthiest Nation: Promotion of Public Health through a “One Health” Approach*

For more information, please visit: https://www.apha.org/apha-communities/spigs/veterinary-public-health
Contact: machalaba@ecohealthalliance.org
# Synergizing One Health Collaborations

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October 17, 2018

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Network for the Evaluation of One Health (NEOH)

Dr. Maurizio Aragrande

On line presentation for:

One Health Education Task Force

Synergizing One Health Collaborations Group

Update meeting

October 17, 2018
About NEOH

• Objectives
  • To investigate the added value of OH initiatives
  • Evaluate systemic outcomes in society, economy and ecosystems

• Method
  • System thinking, interdisciplinarity, transdisciplinarity

http://neoh.onehealthglobal.net/
Evaluation concept
Tangible result

Concepts and experiences in framing, integration and evaluation of One Health and EcoHealth

https://www.frontiersin.org/research-topics/5479/

Integrated approaches to health. A handbook for the evaluation of OneHealth

http://www.wageningenacademic.com/neoh

Dissemination activities

http://neoh.onehealthglobal.net/final-action-conference

Creating impact for One Health and EcoHealth advancements in implementation, evaluation, and governance

EU Cost Action TA 1404, Network for the Evaluation of One Health (NEOH)

Final Conference and Workshop

Department of Agricultural and Food Sciences, University of Bologna

Viale Giuseppe Fanin 44, Bologna (Italy) - 10-12 September 2018
Intangible outcomes

• Development of human capital in NEOH practice
  • Interdisciplinary team working
  • Inclusive environment
  • Mutual learning
Need for education and training

• Needs for the continuation of NEOH activity
  • *Training in interdisciplinary and transdisciplinary approaches for OH-EH initiatives*

• Young researchers needs
  • *A place where new opinions are encouraged and a change of mind is praised*
  • *Welcoming to free-wheeling, out-of-the-box, fresh thinking*
  • *Speak in plain language*
  • *Overcome professional territorialism*
  • *Create one united movement and language around EH/OH*
  • *A problem shared is a problem halved*
Thank you for your attention!

Maurizio Aragrande
NEOH Vice-Chair
University of Bologna, Italy
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Synergizing One Health Collaborations Online - Meeting

Irene Naigaga
OHCEA Regional Program Manager
Kampala, Uganda:  www.ohcea.org

17\textsuperscript{th} October, 2018
**OHCEA Strategic Framework 2019-2024 (Draft)**

**Vision:** A Global one health leader championing sustainable health for humans, animals & environment

**Mission:** To drive transformational change for continuous improvement of health and well-being of *humans, animals, and environment through OH principles and approach* to research, training and community service

**Pillar 1:**
EDUCATION AND CAPACITY BUILDING

**Pillar 2:**
RESEARCH, INNOVATIONS AND COMMUNITY SERVICE

**Pillar 3:**
RESOURCE MOBILISATION & PARTNERSHIPS

**Pillar 4:**
ORGANISATIONAL & NETWORK STRENGTHENING

**OHCEA’s APPROACH:** ONE HEALTH IS AN APPROACH AND NOT ANOTHER DISCIPLINE
One Health Workforce Development Strategy

Strengthened OHW Policy and Government Engagement
- Workforce Assessment
- Workforce Planning
- Policy Communication

One Health Workforce Institutional Strengthening
- Increased university & network capacity to identify and address OHW needs

One Health Workforce Education and Training
- Training and development of current and future One Health workforce to prevent, detect, and respond to emerging pandemic threats

Multi-sectoral Engagement

Education and Training

One Health University Networks as a Catalyst for Workforce Change

Partnerships & Collaboration
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OIE One Health Activities

- 2nd OIE Global Conference on Antimicrobial Resistance and the Prudent Use of Antimicrobials in Animals
  - Marrakesh, Morocco 29-31 October 2018
- World Antibiotic Awareness Week
  - 13-19 November 2017
- Rabies Elimination
- World Rabies Day
  - 28 September 2018
- Efforts to
  - achieve commitments for national prioritisation from countries in Phase 1 of Global Strategy
  - work towards an Official Recognition of national control programmes for dog mediated rabies

Dr. Julie Sinclair presenting
OIE One Health Activities

- High Path Avian Influenza Global Situation Report
  - PVS Pathway
  - IHR-PVS National Bridging Workshops
  - JEE participation
- EBO-SURSY Programme – implementation 2nd year
- Other activities
  - Taking a Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries (TZG 2018) and Operational Tools
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The South African Medical Association (SAMA) & One Health

Current and Future Activities

17 October 2018

Dr. Selaelo Mametja presenting

www.samedical.org
• SAMA is a member of the World Medical Association (WMA) and subscribes to the
  *WMA Resolution On Collaboration Between Human & Veterinary Medicine*, 2008

• SAMA, in view of rising zoonoses, recognises the reality of climate change and its link
to the domains of human and veterinary science. The general neglect of zoonotic
diseases in South Africa is cause for concern.

• As such, SAMA established a sub-committee on Environmental & Climate Change
  issues and recently (2018) established a bilateral MoU with the Public Health
  Association of South Africa (PHASA). A similar MoU with the SA Veterinary Association
  (SAVA) is likely.

• SAMA made the first contact meeting with the South African Veterinary Association
  (SAVA) in 2016 to explore possible collaboration. Subsequent to that meeting, SAMA in
  the interim engaged academia (University of Pretoria) on the subject, which
  precipitated the idea of a multi-stakeholder meeting; hence the SAMA national
  stakeholder meeting on 25 June 2018.

• SAMA continues to expand its network globally, through our working relationship with
  Dr George Lueddeke of the global One Health Commission.

• SAMA is currently brainstorming on how to commemorate One Health Day 2018.
SAMA held its first One Health meeting involving key national stakeholders on 25 June 2018, which generated the following targets:

1. Awareness on One Health is still low among professional groups and other organisations in SA and needs to be boosted. There is need to strengthen existing One Health networks (e.g. the One Health Forum in South Africa) instead of re-inventing the wheel.

2. One Health needs to be integrated into the medical curricular. There is need to change the way health professionals are taught: emphasis must be placed on joint teaching of professionals rather than in isolation.

3. We will leverage on the Forum of Statutory Health Processional Councils (South Africa) to engage at the level of the Director General of Health.

4. We can influence the Public Health Association of South Africa to introduce a Special Interest Group on One Health.

5. We must jointly lobby for One Health to find expression in the ongoing Universal Health Coverage and Sustainable Development Goals agendas.

6. There is need for joint research by stakeholders represented in the meeting, to identify research gaps, to assess teaching methods in medical / vet schools, to find out if teaching is structured in a way that incorporates the different dimensions of One Health.
Thank you / Questions
## Synergizing One Health Collaborations
### Organization Presentations
#### October 17, 2018

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A consortium of universities that are collaborating to build One Health capacity and academic partnerships with government, national and regional stakeholders in the Southeast Asian region.

Established in 2011

20 universities, 34 schools/faculties
17 universities, 23 schools/faculties
10 universities, 42 schools/faculties
20 universities, 21 schools/faculties

IN APRIL 2018, 67 UNIVERSITIES, 120 SCHOOLS/FACULTIES

Conduct OH activities in Cambodia, Myanmar, and Lao PDR but with no formal network.

Future Workforce
Pre-Service Students

Current Workforce
In-Service Professionals

Faculty/ Institutions
Faculty Members & Institutions
Technical Competency
- e.g., Public Health, Infectious diseases, Epidemiology
- Risk analysis, One Health concept
- Should not be the only primary focus

Core Competency
- e.g., Communication, Coordination, Collaboration
- Leadership, Management, Systems Thinking

Incorporate One Health Core Competencies (OHCCs) into the development of technical skills of One Health workforce
Sharing of learner-centered activities when teaching One Health

- Case Studies
- Field observations and experiences
- Games
- Group projects
- Problem-based learning exercises
- Role plays and simulations
## Synergizing One Health Collaborations
### Organization Presentations

**October 17, 2018**

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Synergizing One Health Collaborations

From Geneva to Kakuma: Opportunities for One Health Innovation in the Digital Age

Dr. Rafael Ruiz de Castañeda, PhD
Dr. Isabelle Bolon, DVM PhD

17th October 2018, Geneva

Source: Jacques Van Niekerk
Our approach to One Health education:

- **Trans-disciplinary:** Academia, international organizations, NGOs, citizen science approach etc.

- **International and global:** International Geneva

- **Humanitarian:** Poverty related diseases, zoonotic EIDs and NTDs, snakebite, refugee camps etc.

- **Innovation:** MOOCs, digital epidemiology, AI etc.

- **Youth:** Students in Geneva, in refugee camps, online etc.

Source: MOOC Global Health at the Human-Animal-Ecosystem Interface, Coursera
Global Health at the Human-Animal-Ecosystem Interface

- Launched March 2017
- 37 experts from 20 institutions
- 3,000 enrolments
- English, French, Chinese
- One Health: Risks and benefits at the human-animal-ecosystem interface

Source: MOOC Global Health at the Human-Animal-Ecosystem Interface, Coursera
UNIGE’s MSc in Global Health:

• Following MOOC together: Learn by teaching

• Project-based learning with focus on One Health challenges

• Triangle of students: Geneva-Nairobi-Kakuma

• Building research capacity to understand and tackle health issues at the human-animal-ecosystem interface
Thank you!

Dr. Rafael Ruiz de Castañeda, PhD

Source: Amaury Laporte / Flickr
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UNDP’s work on health-environment nexus

Key partnerships

- WHO, UNEP, Convention on Biological Diversity, GAHP, Health Care Without Harm, civil society groups (e.g. Climate Action Network), Planetary Health Alliance, academic partners and more

Current priority thematic areas

- **Solar for Health**: Currently implemented in 7 countries (over 700 health facilities), ongoing negotiations with additional governments

- **Climate change adaptation in the health sector**: e.g. UNDP/WHO GEF project in 6 Asian LDCs: Bangladesh, Cambodia, Lao PDR, Myanmar, Nepal and Timor-Leste to increase the adaptive capacity of national/subnational health systems and institutions to respond to and manage long-term climate-sensitive health risks

- **Climate change mitigation and health**: Discussing ways to bring health components to Nationally Determined Contribution planning processes and civil society advocacy

- **Indoor/outdoor air pollution and links to NCD agenda**
Strategic opportunities

Key ongoing processes
- Operationalizing UNDP-WHO MoU
- Portfolio building: The Wellcome Trust, Pure Earth/GAHP, DFID/EU
- InterAction Council/Planetary Health Secretariat
- Scaling up actions in high-burden countries (India etc.)
- Emerging work on AMR (e.g. Vietnam)
- Health emergency preparedness

Examples of recent engagements
- Planetary Health Alliance conferences
- Health Forum at the Global Climate Action Summit (convened by HCWH, Global Climate and Health Alliance, University of California, US Climate and Health Alliance)
- Upcoming: WHO First Global Conference on Air Pollution and Health; UNFCCC COP-24
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One Health related teaching and research activities in the Department Veterinary Tropical Diseases

Tshepo Matjila presenting

Oct 2018
DVTD and One Health

Research projects
- TB&BR
- VVBD

OH Platform
wildlife/livestock/human interface

OH School

OH modules
UG
PG
One Health Platform
ONE HEALTH PLATFORM
2 Research Programmes

- Tuberculosis and Brucellosis
- Vectors and vector-borne Diseases
# Synergizing One Health Collaborations

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World Bank and One Health

Dr. Franck Berthe presenting

The Onchocerciasis Control Program (OCP)

The African Program for Onchocerciasis Control (APOC)

The Global Program for Avian Influenza Control and Human Pandemic Preparedness and Response (GPAI)

The Regional Disease Surveillance Systems Enhancement Series of Projects (REDISSE)

Strong, environmentally considerate, public health systems are needed to prevent, reduce and manage risks to humans, animals and the environment and are critical to achieving the World Bank twin goals of ending extreme poverty and boosting shared prosperity
Operational Framework
for Strengthening Human, Animal and Environmental Public Health Systems at their Interface
(“One Health Operational Framework”)

Content
1. Strategic Context and Rationale
2. Value of Investing in One Health
3. Policy, Technical & Institutional Aspects: an Inventory of Tools
4. One Health Entry Points
5. Building Blocks to Operationalizing One Health
6. Monitoring and Upscaling
7. Annexes: lessons, examples, expanded library of tools, and safeguards

Close collaboration with EcoHealth Alliance, and Extensive peer review (WHO, PAHO, FAO, OIE, UNISDR, CBD, UNEP, U.S. CDC, USAID, WRI, and OSU)
REDISSE: Regional Disease Surveillance Systems Enhancement

The program is structured to contribute to four of the key action packages: i) surveillance and reporting; ii) laboratory capacity; iii) health workforce; and iv) epidemic preparedness and response.
IV. Brief Discussions / Summary

V. Any Follow-up meetings needed?

Thank You for participating in this ‘Synergizing One Health Collaborations’ Discussion

Please join us again next week, Wednesday, October 24, if you can.

George Lueddeke, PhD  
Chair, One Health Education Task Force