One Health in Practice

LISA CONTI, DVM, MPH, DACVPM
Deputy Commissioner and Chief Science Officer
Florida Department of Agriculture and Consumer Services
Lisa.conti@freshfromflorida.com
850-617-7706
One Health

The collaborative effort of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals and our environment.
The Hippocratic Oath

I swear by Apollo Physician and Asclepius and Hygeia and Panacea and all the gods and goddesses, making them my witness, that I will fulfill according to my ability and judgment this oath and this covenant.
Sanitary Privies Are Cheaper Than Coffins

For Health's Sake let's keep this Privy CLEAN. Bad privies (and no privies at all) are our greatest cause of Disease. Clean people or families will help us keep this place clean. It should be kept as clean as the house because it spreads more diseases.

The User Must Keep It Clean Inside. Wash the Seat Occasionally

How to Keep a Safe Privy:

1. Have the back perfectly screened against flies and animals.
2. Have a hinged door over the seat and keep it CLOSED when not in use.
3. Have a bucket beneath to catch the Excreta.
4. VENTILATE THE VAULT.
5. See that the privy is kept clean inside and out, or take the blame on yourself if some member of your family dies of Typhoid Fever.

Some of the Diseases Spread by Filthy Privies:

Typhoid Fever, Bowel Troubles of Children, Dysenteric, Hookworms, Cholera, some Tuberculosis.

The Flies that You See in the Privy Will Soon Be in the Dining Room.

Walker County Board of Health
The Veterinary Oath

I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health, the relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.
PEOPLE/ANIMALS/ENVIRONMENT
How expansive is your circle? Decisions for one, a few, or for many?

Community/Ecosystem
Patient
One Health Practitioner

• Prevent and treat disease
• Educate

• Participate in policy decisions
• Reduce hazards for high risk people
• Identify sentinel animal abuse
• Mental health collaborator
Environmental Health

1. Food and Water Safety
2. Zoonoses and Vectorborne Disease Prevention and Control
3. Safe and Healthy Places

Microbes, chemicals, radiation and other hazards
Number of papers published per year identified with the search terms “one health” or “one medicine” in Pubmed (1873-2015)
Why One Health?

If you want to go fast, go alone.
If you want to go far,
GO TOGETHER.

African Proverb
Perspectives

BoAT!

LAND!
No one—not rock stars, not professional athletes, not software billionaires, and not even geniuses—ever makes it alone.

Malcolm Gladwell
A Brief History of Shared Experiences

• Paleolithic society
  Hunting

• Neolithic Society
  + Farming, transportation, protection

• Modern Society
  + Companionship, sport, research
The Human-Animal Connection

- 57% US homes have pets\(^1\)
- More households with pets than children (46%)\(^2\)
- 93% of pet owners would risk their life for their pet\(^3\)
- 50% of pet owners would choose their pet as their single companion if stranded on a deserted island\(^3\)

1. AVMA Market Research Statistics; 2007
2. US Census
When you travel...
Don’t pack a pest
Declare agricultural items

www.dontpackapest.com
Giant African Land Snails (GALS)  
*Lissachatina fulica*
Listed as one of the top 100 invasive species in the world

- Major landscape/agricultural pest
- Eats stucco
- Reproduces rapidly
- No natural enemies
Rat Lungworm

*Angiostrongylus cantonensis*
T-Shaped Transformation

Boundary Crossing Competencies
- Teamwork, communication, perspective, networks, critical thinking, global understanding, project management, etc.
- Many Disciplines
  - Understanding & communications
- Many Systems
  - Understanding & communications

Deep in at least one discipline
- Analytic thinking & problem solving

Deep in at least one system
- System Thinking
TAKE HOME MESSAGES

• One Health approach increasingly important as:
  - population increases
  - our agriculture intensifies
  - habitat destruction worsens

• 21st century demands we reassess our institutions, priorities, and policies.

• One Health approach considerations:
  - Education Logistics
  - Infrastructure – who’s in charge/leadership
  - Funding/resources
Opportunities for One Health

www.OneHealthInitiative.com
Thank you!

http://www.onehealthinitiative.com/