Center for Public and Corporate Veterinary Medicine

Emerging Public Practice Opportunities for Food Animal Medicine Graduates

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Veterinary Public Practice

A veterinary practice emphasis that encompasses public health, epidemiology, food safety, infectious diseases, zoonotic diseases, basic sciences, laboratory animal practice, veterinary college faculty, and practices supporting human health
The Scope of Public Practice

Unlike traditional veterinary private practice where the focus is at an individual or herd level...
The Scope of Public Practice

...public practice veterinarians deal with and have the potential to impact major animal populations at state, national or worldwide levels.
Increasing World Demand for Protein

• By 2050 an expanded world population will be consuming two thirds more animal protein than it does today.

World Livestock Report 2011
UN Food and Agriculture Organization
“The convergence of animal health and public health in the area of zoonotic and newly emerging diseases is a critical link to societal well-being.”

- Final Report, AAVMC Foresight Project 2007
“Quite apart from avian influenza, emerging animal diseases, three quarters of which are zoonotic, are set to become more and more part of the world landscape”

- OIE/World Bank joint press release  Jul 29, 2010
APHIS List of 17 Most Damaging Animal Disease Threats

1. Highly Pathogenic AI (F)
2. Foot-and-Mouth Disease
3. Rift Valley fever (F)
4. Exotic Newcastle Disease
5. Nipah and Hendra virus (F)
6. Classical swine fever
7. African swine fever
8. Bovine spongiform encephalopathy (?)
9. Rinderpest
10. Japanese encephalitis (F)
11. African horse sickness
12. Venezuelan equine (F) encephalitis
13. Contagious bovine pleuropneumonia
14. Ehrlichia ruminantium (Heartwater)
15. Eastern equine encephalitis (F)
16. Coxiella burnetii (F)
17. Akabane virus

Zoonotic diseases: (F) fatal (?) possible

Red text: FBI pathogens of Concern
Food Animal Opportunities

The training and education of Food Animal Medicine graduates provides a solid foundation for working across the entire scope of public practice arenas.
Emerging Public Practice Opportunities

- “One World One Health”
- Disease surveillance
- Risk assessment/modeling
- Emergency preparedness/response
Emerging Public Practice Opportunities

- Food safety/security/defense
- Laboratory/Diagnostics
- Research and development
- Conservation medicine
Public Practice Veterinarians

“The world is our clinic”