Implications of the Foresight Report for animal welfare education and research.

What are veterinary colleges teaching today about animal welfare?

Where do we go from here?

Janver D. Krehbiel, DVM, PhD.

College of Veterinary Medicine / Michigan State University
ENVIRONMENT OF VETERINARY MEDICINE

PROFOUND CHANGE

Foresight Report
Norm Willis Group

(Objective)

Envisioning the Future of Veterinary Medicine
Intent – Goal

Provide Basis for Strategic Planning by

• Individual Colleges of Veterinary Medicine
• Association of American Veterinary Medical Colleges (AAVMC)
  o National Level
  o International Level
Foresight Study – Process - Tools

Four Meetings

• Challenge Questions
  o Societal Expectations
  o Education, Format, and Delivery
  o Status of Veterinarians
  o Relationship with Public Health
  o Policy, Regulation, Funding
• Curricular Development
  o Responsive
  o Flexible

• Prepare Veterinarians
  o Opportunities
  o Challenges
Scenario Development

- Doomsday: Pandemic Disaster 2015–25
- Brave New World of Modified Species
- Fragmented Profession
- One Medicine, One Health
- Globalized “Google Vets”

95 Participants
Implications of the Foresight Report (FR)

Related to

- Animal Welfare
- Education
- Research
Points of Concern (FR)

Values & Ethics (5.9)

- Primary Obligation
  - Human Client
  - The Animal Patient
- Social Benefits of Animals
  - Economic Benefits
  - Public Health
  - Animal Welfare
Points of Concern (FR)

Recommendations (6.3)

- Advocate for the well-being of animals
- Form alliances with
  - Humane Societies
  - Animal Welfare Associations

To influence policy on the well-being of animals
Veterinarian’s Oath

Being admitted to the profession of veterinary medicine, 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.
Purdue University
School of Veterinary Medicine

- Core Courses Semester 1, 2, and 4
  - Animal Behavior
  - Animal Husbandry
  - Diagnostic Techniques

- Principles of Professionalism Jurisprudence & Ethics
  - Discussion Based Course
  - Guest Lectures
  - Focus on Specific Issues

Labs, Field Trips
Purdue University
School of Veterinary Medicine

- Grand Rounds – Required Year 1, 2, & 3
  - Interactive
  - Guest Lecturers
- Elective Courses
  - Environments for Large Animal Species
  - Shelter Animal Medicine
  - Forensic Veterinary Medicine
TCSVM

• Year 1 – Human Animal Relationships
  o 1/3 – 1/2 of the topics AW
• Year 2 – Jurisprudence
• Year 3 – Ethics
  o Expansion of Year 1 topics
• Year 4 – Capstone
  o Ethical Reasoning
  o Small Groups
  o Case Based
  o Clinical Rotations
Tufts Cummings School of Veterinary Medicine (TCSVM)

- Ethics and Values Curriculum – All Four Years of the Program
- Center for Animals and Public Policy
- ESVP – Ethics and Values Signature Program 1980
- MAPP – Masters of Science in Animals and Public Policy – 1995
  o Topics Integrated with DVM Students
University of Florida
College of Veterinary Medicine
Dr. Arthur Donovan

- Student Visits to Farms
- Compare & Contrast AW–3 Farms
  - Housing – Free Stall Barn
  - Cud Chewing
  - Flight Zone
  - Heat Stress Abatement
  - Castrations & Dehornings
  - Nutrition – Preventive Medicine
Calf Welfare
Dr. Sheila McGuirk
(University of Wisconsin)

5 “C’s” of Calf Raising
- Colostrum
- Cleanliness
- Calories
- Comfort
- Consistency

<table>
<thead>
<tr>
<th>Dairy Cow</th>
<th>Beef Cow</th>
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<tr>
<td>Working Mother</td>
<td>Stay at Home Mom</td>
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<td>Parlor Limitations</td>
<td>Time &amp; Resources</td>
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<tr>
<td>Comingling</td>
<td>Quarantine</td>
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University of Wisconsin – Madison
School of Veterinary Medicine (UW SVM)

- Dairy Cow Ethics
- Industrialized Agriculture
  - Five Freedoms
  - Facility Design
  - Hygiene Scoring
  - Health Management
  - Production Systems
UW SVM

Food Animal Production Medicine
Current Research Projects

• Hoofbath Video Behavioral Study
• Ecology of Infectious Disease
• Cow Comfort and Well-Being
North Carolina State University
College of Veterinary Medicine

Animal Welfare Courses

- VMP 916: Health Maintenance & Production I, II, III
- VMC 927: Introduction to Animal Behavior
- VMP 945: Epidemiology & Public Health
- VMP 958: Exotic & Emerging Diseases in Veterinary Medicine
- VMC 962: Animal Welfare, Ethics & Social Responsibility

Teaching Animal Unit (TAU)
NC State/CVM

Selectives (Year 1, 2 & 3)
- VMC 991B: Shelter Medicine
- VMC 991F: Animal Behavior & Welfare
- VMC 991W: Animal Behavior Service

Clinical Rotations (Year 4)
- VMC 970: Community Classroom

NCVC – Animal Track
In Development – Animal Welfare and the Law

North Carolina State University
College of Veterinary Medicine
Endowments – AW Funding

- Shelter Medicine
- Fund for Strays
- Scholarships
- 3 FTE’s, AES, CVM, CANR
- Lucky Fund
MSU/CVM Veterinary Technology

VM 295: Biomedical Research & Regulatory Issues for VT’s

- Husbandry
- Nutrition
- Ventilation
- Animal Welfare Act
- PHS Policy
- AAALAC
- IACUC
- AALAS
- Housing
- Environment
• Dairy Farm Pasture Option
• Free Stall Housing
• Water Beds
• Rotational Grazing
• Robot Milkers
Animal Welfare Changes

VTH Animal Safety & Care

- Padded Stalls
- Heating Pads
- Incubators – ICU
- Non-Slick Floors
- Large Animal Handling Facilities
- Water Treadmills