Stewardship of Antimicrobial Drug Use in Food-Producing Animals

2017 NIAA Antibiotic Symposium
Joe Swedberg
Chair of the Board, Farm Foundation
OUR VISION: Catalyze robust debate to ensure informed policy decisions.

OUR MISSION: Farm Foundation is an agriculture policy institute cultivating dynamic no-partisan collaboration to meet society’s needs for food, fiber, feed and energy. Since 1933, we have connected leaders in farming, business, academia, organizations and government through proactive, rigorous debate and objective issue analysis.
History of Antibiotics in Livestock Production

1950: FDA approves use of antibiotics for growth promotion in food animals.

1957: FDA links use of SGPs to emergence of antibiotic-resistant bacteria.

1969: Swann Committee report recommends only antibiotics with no/minimal disease treatment application be used in animal growth promotion.

1972-74: Many European countries ban growth promotion use of medically important antibiotics.

1977: FDA issues “notices of opportunity for a hearing” to ban sub therapeutic use of penicillin and tetracyclines, but is never held due to congress.

1980: Report by Institute of Medicine states resistance from AGPs is a “potential human health hazard”.


1990: Citizen petition filed requesting FDA to ban AGPs.

1993: Approval of Feed and Water Medications as RX for VFD.


1999: Manufacturers are required to report quantity of antimicrobial drugs sold or distributed to the FDA.

2000: Strategies to Address Antimicrobial Resistance (STAAR) Act introduced in Congress.


2008: Final VFD rule update published.

2013: Guidance Document #209, Draft Guidance #213, revised VFD rule proposed.

Sources: Center for Disease Dynamics, Economics & Policy, Natural Resource Defense Council
Guidance for Industry #209
“Judicious Use of Medically-Important Antimicrobial Drugs in Food-Producing Animals”
Label changes required by Jan. 1, 2017

Guidance for Industry #213
“New Animal Drugs and New Animal Drug Combination Products Administered in or on Medicated Feed or Drinking Water of Food”
Took full effect Jan. 1, 2017

Revised Veterinary Feed Directive (VFD) Rule
Effective October 2015 and took full effect Jan. 1, 2017
Farm Foundation Approach and Methodology

Public-Private Partnership: Farm Foundation, FDA, USDA

Regional workshop model

Target audiences:
- Livestock producers
- Veterinarians
- Feed Suppliers
- Support agencies and organizations, i.e. state and federal agencies, colleges of veterinary medicine, state departments of agriculture, Cooperative Extension

Online survey – open to all interested parties, whether or not they attended workshop
Workshop Locations
Farm Foundation Approach and Methodology

Each workshop featured:
• Participation by senior FDA and USDA APHIS staff members
• Presentations by regional producers, veterinarians and feed suppliers
• Significant time for discussion between participants, FDA and APHIS

FDA and APHIS left the meetings having engaged directly with industry stakeholders and with key questions raised by workshop attendees. Workshop attendees left with comprehensive overview of how policies will impact management of their respective operations.
What we found out

1) Need for more education and outreach:
   • Despite work by many groups, many key stakeholders still lack awareness of the changes.
   • Cooperative Extension and feed suppliers have a critical role in providing education materials.
What we found out

1) More education and outreach

2) Continuing dialogue between industry and state and federal regulators
   • One of most valuable elements of workshops—direct interaction with FDA and USDA.
   • Interaction generated list of unanswered questions—resolution of which will strengthen outcomes
   • Continuing dialogue will require commitment of private & non-profit sectors
What we found out

1) More education and outreach
2) Continuing dialogue between industry and state and federal regulators
3) Access to veterinary services and the supply of food-animal veterinarians
   • Develop options to provide veterinary services to small producers in underserved areas. Bipartisan legislation has been introduced “Vet Medical Loan Repayment Pr
   • Increase number of veterinarians with economically-sustainable food-animal practices
   • Explore new models of delivering veterinary services in underserved areas
   • Find products to meet needs of producers raising small ruminants or minor species
   • Partnered with Animal Health Institute which provided funding for outreach
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Auburn University College of Agriculture
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Alabama Extension Service
Alabama Cattlemen’s Association
Alabama Farmers Cooperative
Arizona State University Morrison School of Agribusiness
Association of Public and Land-grant Universities
Association of American Veterinary Medicine Colleges
Economic Research Service, USDA
Iowa State University College of Agriculture and Life Sciences
Kentucky Veterinary Medical Association
National Pork Board
National Turkey Federation
North American Meat Institute
University of Arizona College of Agriculture and Life Sciences
University of Arizona Veterinary Medical Education Program
University of California, Davis, School of Veterinary Medicine
University of Idaho College of Agricultural and Life Sciences
Western Dairy Association
Barn Media
C-ARC Enterprises, Inc.
Elanco Animal Health
Farm Credit Council
Hardin Farms
Hormel Foods Corporation
Irsik Farms
JBS United
Jennie-O Turkey Store
J.R. Simplot Company
Kautz Farms
National Pork Producers Council
National Western Stock Show
North Carolina Farm Bureau
Pew Charitable Trusts
Rose Acre Farms
Texas Cattle Feeders Association
Texas A&M AgriLife Research
SO WHERE ARE WE AT TODAY?
Antimicrobial Stewardship Working Group

- The Farm Foundation has partnered with the PEW Charitable Trust as well as companies and livestock groups in a voluntary collaborative effort to examine stewardship of animal health and the responsible use of antimicrobials in food producing animals.

- The Working Group is an opportunity for the respective value chain members to better understand how each is currently practicing sound stewardship, the challenges faced and common issues that need to be addressed.
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