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Agricultural Outlook Forum U.S. Department of Agriculture Arlington, Virginia

USDA Antimicrobial Resistance (AMR) Plan Steven Kappes

Presented: February 19-20, 2015





USDA Antimicrobial Resistance (AMR) Plan

U.S. Department of Agriculture February 2, 2015





Agenda

- USDA AMR 2012 Workshop
- USDA AMR Action Plan
- White House Initiatives
- Next Steps

USDA May 2012 Workshop

Objectives

- Review current antibiotic use and resistance monitoring
- Review management practices to reduce antibiotic resistance
- Review alternatives to the use of antibiotics

USDA partners

- APHIS, ARS, ERS, FSIS, NASS and NFIA
- Led by USDA One Health Working Group

Information Gaps Identified by Stakeholders: 2012 Workshop

- 1. Data Gaps
- 2. Communication Gaps
- 3. Defined Metrics
- 4. Funding Needs

Ways to Address Gaps Identified by Stakeholders

- Holistic approach considering entire microbiome
- Strengthen National Antimicrobial Resistance Monitoring System (NARMS)
- Strengthen National Animal Health Monitoring System (NAHMS)
- Conduct research via a long-term plan
- Conduct outreach and education

USDA AMR Action Plan

Goals:

- Obtain and disseminate science-based, quantitative antibiotic drug use information coupled with the development of resistance in food-producing animals and to relate this to livestock management practices.
- Address recognized knowledge gaps and develop effective, practical mitigation strategies that will help to prolong the effectiveness of antibiotics to treat both people and animals.

Objectives

Objective 1: Determine and/or model patterns, purposes, and impacts of antibiotic use in food-producing animals.

Objective 2: Monitor antibiotic drug susceptibilities of selected bacterial organisms in food-producing animals, production environments, and meat and poultry.

Objective 3: Identify feasible management practices, alternatives to antibiotic use, and other mitigations to reduce AMR associated with food-producing animals and their production environments.

Proposed Surveillance

Enhanced and expanded

- survey questionnaires
- longitudinal studies
- Measurement of antimicrobial drug use and related production practices by livestock and poultry producers

Approach

- Confidentiality protections for voluntary onfarm participation
 - Confidential Information Protection and Statistical Efficiency Act (CIPSE).
- Regulatory standards still apply for slaughter plant sampling under PR/HACCP

Proposed Research

- Alternatives
- Vaccines
- Feed, nutrition, genetic resistance
- Ecology
- Management practices
- Multi-institutional/multiagency projects that integrate research, education, and extension.

Proposed Education/Outreach

Support FDA and stakeholders in education and outreach programs for various audiences including veterinarians, producers, extension agents, academia, the media and the lay public.

White House Initiatives

- Executive Order
- National Strategy for Combating Antibiotic Resistant Bacteria (CARB)
- Report from the President's Council of Advisors on Science and Technology on Combating Antibiotic Resistance

National Strategy Goals

- Slow the emergence and prevent the spread of resistant bacteria.
- 2. Strengthen national surveillance efforts to combat resistance.
- Advance the development and use of rapid diagnostic tests for the identification and characterization of antibioticresistant bacteria.
- Accelerate basic and applied research and development for new antibiotics as well as other therapeutics and vaccines.
- Improve international collaboration, capacities for antibioticresistance prevention, surveillance, control, and antibiotic research and development.

Next Steps

- CARB Task Force
- 5-year National Action Plan
- Presidential Advisory Council
- International Goal 5





President's FY2016 Budget Fact Sheet: http://www.whitehouse.gov/the-press-office/2015/01/27/fact-sheet-president-s-2016-budget-proposes-historic-investment-combat-a

USDA AMR Workshop:

http://www.fsis.usda.gov/wps/wcm/connect/9ddc0b 9c-af04-4ed4-b959-b7799ddbfe11/USDA-Antibiotic-Resistance-Workshop-Summary.pdf?MOD=AJPERES

USDA AMR Action Plan: www.usda.gov/antimicrobial.html

CARB National Strategy: http://www.whitehouse.gov/sites/default/files/docs/carb_national_strategy.pdf

