California’s Antibiotic Program: 2 years of progress

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Overview

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II. Review of the Use Limitations

III. California Program Highlights
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   b. Key Program Products Produced
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Antimicrobial Use and Stewardship Program

• A CDFA Program established to implement Food and Agricultural Code 14400-14408 [a.k.a. Senate Bill 27 (Hill, 2015) or SB 27]

• Assess, educate, and enforce law relating to antimicrobial use for livestock

• Gather California data on:
  
  ![Icons]
  
  Use of medically important antimicrobial drugs (MIADs)
  Animal management practices and health outcomes
  Trends in antimicrobial resistance
  Sales of medically important antimicrobial drugs

• Information collected by AUS is then used to develop recommendations and guidelines that will inform California livestock producers and veterinarians on antimicrobial stewardship

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Limitations of Use (effective January 1, 2018)

- Permitted when deemed necessary by the professional judgement of a California licensed veterinarian

- For treatment, control or, in some cases, prevention of disease
  - *Necessary to treat a disease or infection*
  - *Necessary to control the spread of disease or infection*
  - *Necessary in relation to surgery or a medical procedure*

- Necessary for prophylaxis to address an elevated risk of contraction of a particular disease
  - Not administered in a regular pattern

- Requires a valid *veterinarian-client-patient-relationship (VCPR)*
  - as defined by California Code of Regulations Title 16, Section 2032.1

At the same time: Federal restrictions on feed and water MIADs
CA Veterinarian CE requirement: SB 361 (2015)
What makes California different?

- **Stewardship program**: opportunity to reduce exposure to antimicrobials by focusing on key animal health challenges, with the aim of reducing the development of resistance

- **Diverse data picture**: not only sales data; collecting and monitoring a more complete data including clinical indication, husbandry practices, and resistance trends
What information is gathered?

- Voluntary data gathered from producers
  - By In-house Surveys
  - By University Contractors

- Snapshots as well as long-term trends that occur over years

- Includes data such as pre-VFD/water federal restriction and pre-CA law

- All information collected is held confidential, protected by law

- Geographic & operation size distributions aligned with NASS study estimates

- National Collaborations - State University Experts, NAHMS Goat Study, etc.
• Regulations for sale of CA-regulated MIADs
• Timely access to veterinary treatment
  ▪ Identify ‘rural’ areas with limited access to veterinary care
  ▪ Consult with producers and licensed veterinarians for strategies
    ▪ Youth Agricultural VCPR Model
    ▪ Veterinary Medicine Loan Repayment Program (VMLRP)
• Principles of Antimicrobial Stewardship
• Judicious Use Guidelines (Producer & Veterinarian)
• Reports
  ▪ Annual Report to be published Fall 2019
  ▪ Summary Report: Veterinary Feed Directives 2017-2019 Q1
  ▪ Legislative Report published January 2019
Antimicrobial Stewardship Goals

• **As little as possible** - Reduce the need for antimicrobial drugs with infectious disease prevention

• **As much as necessary** - Use antimicrobials appropriately to **optimize** livestock health and minimize selection for antimicrobial resistance

**AUS Principles of Stewardship**

- Commitment to Partnership
- Animal Health and Disease Prevention
- Judicious Use of Antimicrobials
- Record, Reevaluate, and Report
- Expertise in Antimicrobial Stewardship
Judicious use is the prudent and effective use of antimicrobial drugs once you have decided to use them.

AUS Judicious Use Guidelines

• Veterinary and producer versions
• Visual guide available here today!

Available for download: https://www.cdfa.ca.gov/AHFSS/aus/Stewardship.html
Features of Judicious Use Guidelines

• Consider and draw upon the tenets of other foundational documents outside our program affecting a veterinarian’s use in California and acts as a complete resource packet for beginning to examine judicial use examples including:

  ▪ **Compliance Policy Guide 615.115:** Extralabel Use of Medicated Feeds for Minor Species

  ▪ **Title 21, Code of Federal Regulations, Part 530:** Extralabel Drug Use in Animals

  ▪ **Title 16, California Code of Regulations, Section 2032.1:** Veterinarian-Client-Patient Relationship

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Animal Health and Disease Prevention

• Informational results direct the focus and priorities of AUS Work Groups
  ▪ Species-Specific Expert Task Forces made of university and industry leaders
  ▪ Literature reviews focused on the top 3 California-producer identified conditions for administration, by production type
  ▪ An educational approach for future materials

• Address trends across
  ▪ Differing needs by operation characteristics
  ▪ Veterinary involvement
  ▪ Recording tools and materials

• Informed reduction strategies: not based on artificial targets
• Analysis of the data on-going: continuing to conduct studies, information analysis can be used to help refine recommendations

• Pilot antimicrobial resistance assessment efforts for on-farm trends

• Funnel information directly into stewardship efforts

• Going beyond the traditional Quality Assurance program?
  ▪ Disease focused workshops
  ▪ Partnering with local veterinarians
  ▪ Useful tools and record keeping resources
  ▪ Continued partnership with universities and livestock groups

• VFD and sales enforcement- Inspection Services

• California Veterinary Medical Board responsible for enforcing veterinary practice law
Thank you!

Please contact us if you have any questions, comments, or suggestions!

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