


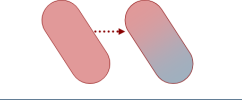





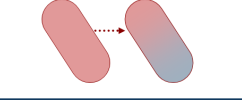
## How Antibiotic Resistance Happens

This crisis is a real and natural event that is accelerated with the use of antibiotics.

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| <p><b>1.</b><br/>Lots of germs.<br/>A few are drug resistant.</p>                        | <p><b>2.</b><br/>Antibiotics kill bacteria causing the illness, as well as good bacteria protecting the body from infection.</p>  |
| <p><b>3.</b><br/>The drug-resistant bacteria are now allowed to grow and take over.</p>  | <p><b>4.</b><br/>Some bacteria give their drug-resistance to other bacteria, causing more problems.</p>                           |

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Email questions to  
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## Antibiotic Use in Livestock



New CA rules take effect Jan 1, 2018

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## The Wonder Drug

Antibiotics used to prevent and treat diseases in animals are a valuable tool that producers and veterinarians use to improve animal welfare and general animal health and well-being.

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## New California Law

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## What is the difference?

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|----------------|---|---|
| Source         | <br>Federal Law | <br>California Law |
| Drugs          | Medically Important Antibiotics   | Same  |
| Formulations   | Medicated feed and water  | All (injectable, intra-mammary, feed, water, etc)   |
| New Systems    | Feed: VFD w/VCPR<br>Water: Rx w/VCPR  | Rx or VFD w/VCPR  |
| Indications    | Treatment, control and prevention   | Same  |
| Limitations    | No use for growth promotion or feed efficiency  | Same, plus "regular pattern" preventative use   |
| Effective Date | Jan 1, 2017   | <b>Jan 1, 2018</b>  |

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## Antimicrobial Use and Stewardship (AUS)

The California Department of Food & Agriculture will provide voluntary antibiotic stewardship guidelines and best management practices to assist producers and veterinarians in minimizing the use of medically important antibiotics for the more than 20 livestock species and production types important to California. The guidelines will be an ongoing endeavor to incorporate scientifically validated practical alternatives to the use of medically important antibiotic drugs.



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## California Animal Health Monitoring System (CAHMS)

Many reports (including human medical journals) use tonnage of antibiotics sold in the US in attempt to tie antibiotic use in livestock to resistance in humans. The link is weak, as the data does not reflect the purpose of use (production efficiency vs disease control, prevention, or treatment), region, animal weight, dose, frequency or duration of use, etc. CAHMS will be conducting voluntary surveys to more accurately represent antibiotic use in CA livestock. These surveys will assist in the development of guidelines for producers and veterinarians and is needed to establish accurate communication with the public. All information gathered will be held confidential per the statutory provisions of the law, including from FOIA or PRA requests.

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