15 Year Project ....Raising Chickens without Antibiotics

Bruce Stewart-Brown, DVM
Perdue Foods, LLC
In 2002...it became clear to us

• The “Science” on the Public Health Implication of Antibiotic use in Animals is going to be debated for many years
• Regulations, or attempts at regulation, will be coming from Federal, State, even Local
• Consumers concern is real and will grow
• If you can, move away from them....safely and slowly but.....but do it
4 Ways Antibiotics Might be Used in Chickens

1. Antibiotics for Growth Promotion (continuous Prevention)
2. Hatchery Use
3. “Animal Only” class of Antibiotics (Ionophores)
4. Treatment of Sick or “soon to be sick” (birds in the house with sick birds)
# Types of Programs

<table>
<thead>
<tr>
<th></th>
<th>Antibiotic Hatchery Use</th>
<th>Antibiotic used for Growth Promotion or Prevention (all flocks – in feed, human approved)</th>
<th>Ionophore Use (An “Animal Only” antibiotic)</th>
<th>Treatment /Control /Targeted Prevention (only when needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry “All in”</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Gray Area (“No Human”)</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>YES or NO?</td>
</tr>
<tr>
<td>NAE/ABF</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>Organic</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
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Breeders – Needed Cleaner Eggs
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We Eliminated Hatchery Antibiotic Use in 2104

- It took us several years to get to ZERO. It is not something we’d recommend doing “cold turkey”
No Antibiotics for Growth Promotion and No Human Approved Antibiotics (of any sort) in Feed.
Total #'s of Prebiotic and Probiotic
Any Feed items that might be prone to causing gut irritation...threatens the long term success for low/no antibiotics

- Perdue Foods slowly migrated to all vegetable diets for a number of reasons, but one reason is to be more successful without antibiotics.
Vaccine Spend Relative to General Poultry Industry - if they were the same size
What about when Chickens get sick

• Treat them
• By a Vet
• Using the best product you know how to use
• For that HOUSE, for the right amount of time, measure the outcome
• Look for repeating HOUSES, fix them
• Get ready to report your Use to anybody interested
Our Goal Was: No Antibiotic Ever is successful because No Antibiotics Needed

- Animal Care needs to change, for you to do this right – so we are working on that
- Organic husbandry rules were directionally something to aspire to
- Don’t forget the Farmers