What are the changes?
- Certain drugs are moving from over-the-counter (OTC) status to VFD status (those administered in feed) or prescription status (those administered in drinking water).
- VFD orders will be required for use of VFD drugs on or in medicated feeds, thereby requiring veterinary oversight.
- “Medically important” antibiotics will only be allowed for FDA-approved uses (e.g. no longer allowed for growth promotion).
- NO EXTRA-LABEL use of VFD drugs in feed allowed.

What is the reason for these rule changes?
Growing concern over general antibiotic-resistance of pathogens resulted in these rule changes as part of an effort to promote judicious use of medically important antibiotics in food-production animals.

What is a Veterinary Feed Directive Order (VFD)?
A written document issued by a licensed veterinarian (in the context of a valid Veterinarian-Client-Patient-Relationship) that authorizes the use of a VFD drug, or a combination of VFD drug, on or in an animal feed.
- It is similar to a “prescription,” but it requires specific information and language in order to be compliant.
- See other side for sample VFD order form (provided by the AVMA)

What is a “VFD drug”?
A drug deemed “medically important” in humans that is intended for use on or in animal feed, and is used under the supervision of a licensed veterinarian.

What is the veterinary-client-patient-relationship (VCPR)?
As defined in the AVMA’s Principles of Veterinary Medical Ethics:
- The veterinarian has assumed the responsibility for making clinical judgments regarding the health of the patient, and the client has agreed to follow the veterinarian’s instructions.
- The veterinarian has sufficient knowledge of the patient to initiate at least a general or preliminary diagnosis of the medical condition of the patient. This means that the veterinarian is personally acquainted with the keeping and care of the patient by virtue of a timely examination of the patient by the veterinarian or medically appropriate and timely visits by the veterinarian to the operation where the patient is managed.
- The veterinarian is readily available for follow-up evaluation or has arranged for the following: veterinary emergency coverage, and continuing care and treatment.
- The veterinarian provides oversight of treatment, compliance, and outcome.
- Patient records are maintained.
- VFD order forms must be kept for minimum of 2 years by the client AND the veterinarian.

How does a producer obtain a VFD feed?
- Contact a licensed veterinarian; obtain a VFD form containing the required information; send the VFD order to the feed supplier to obtain the medicated feed.
- Clients are prohibited from the use of any VFD feed beyond the scope of the recommendations of the veterinarian.
- VFD feed(s) and VFD drug(s) cannot be shared with other operations.

Drugs moving from OTC status to VFD status:

<table>
<thead>
<tr>
<th>Class of Antibiotic</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminoglycosides</td>
<td>Apramycin, Hygromycin B, Neomycin, Streptomycin, Gentamicin</td>
</tr>
<tr>
<td>Diaminopyrimidines</td>
<td>Ormetoprim</td>
</tr>
<tr>
<td>Lincosamides</td>
<td>Lincomycin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin, Oleandomycin, Tylosin</td>
</tr>
<tr>
<td>Penicillins</td>
<td>Penicillin</td>
</tr>
<tr>
<td>Streptogramins</td>
<td>Virginiamycin</td>
</tr>
<tr>
<td>Sulfas</td>
<td>Sulfadimethoxine, Sulfamerazine, Sulfamethazine, Sulfquinocaine</td>
</tr>
<tr>
<td>Tetracyclines</td>
<td>Chlorotetracycline, Oxytetracycline</td>
</tr>
</tbody>
</table>

Drugs that ALREADY require a VFD:
- Avilamycin, Florfenicol, Tilmicosin

Drugs that do NOT require a VFD (see chart below):
- Are not “medically important” or are not antimicrobials

| Ionophores          | (Monensin, Lasalocid, etc), |
| Bacitracin          | BMD, bacitracin zinc |
| Bambermycins        | Flavomycin |
| Carbadox            | |
| Anthelmintics       | Coumaphos, Fenbendazole, Ivermectin |
| Beta-agonists       | Ractopamine, Zilpaterol |
| Coccidiostats       | Clopidol, Decoquinate, Diclazuril |

For more information, contact your private veterinarian or University of Hawaii Extension:
- Jenee Odani: Extension Veterinarian (808) 956-3847
- Brent Buckley: Beef Ext. Specialist (808) 956-7090
- Kyle Caires: Maui Ext. Agent (808) 244-3242, ext. 232
- Mike DuPonte: Hawaii Ext. Agent (808) 981-5199
- Glen Fukumoto: Hawaii Ext. Agent (808) 322-4893
- C.N. Lee: Dairy Extension Specialist (808) 956-4882
- Mark Thorne: Range Ext. Specialist (808) 887-6183
- Halina Zaleski: Swine Ext. Specialist (808) 956-7594

Thank you to Cody Petro-Sakuma for assistance with developing this handout.