Antibiotic reduction
Pig sector progress

DR ZOE DAVIES
Chief Executive, National Pig Association
Context

- 489,000 breeding sows in UK (June 2016)
- 4,866,000 pigs in total
- 11,500 pig premises
- Just over 2,000 assured businesses account for 92% production
- 20 companies over 50% of breeding herd
- 1 company has 10%
- 14 companies = 80% of kill
Early Actions

- Red Tractor requirement for annual collation - 2014
- NPA allied industry in-feed medication reporting
- Cross sector working through RUMA
- Pig Health and Welfare Council AB sub-group
- Close working with VMD and APHA
eMB-Pigs

- Launched April 2016
- To collate on-farm usage data
- Trend reports back to producers
- Anonymous, aggregated data shared with VMD
- Focus on 2015 data → sensible target setting
- Will become mandatory for Red Tractor producers by October 2017
Dashboard

My Test Farm 1, A12 B34, 00/000/0000, AB1234


Click here to enter data online.

Alternatively, submit your antibiotic usage return using your third party medicine record keeping software.

Your last antibiotic usage return was submitted on 6th Oct 2015 using Database Seed Process. Click here to view it.

Holding Details

<table>
<thead>
<tr>
<th>Post Code</th>
<th>Holding Number</th>
<th>Stampmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>A12 B34</td>
<td>00/000/0000</td>
<td>AB1234</td>
</tr>
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</table>

Permissions

- Medicine data
- View and enter

Antibiotic Usage Trends

- See holding report for details of antibiotic usage.

Usage by Antibiotic Class

1st Jul 2015 - 30th Sep 2015

- Tetracyclines
- Aminoglycosides
- Macrolides
- Sulphonamides
- Other
Antibiotic Stewardship Programme

- Launched May 2016
- Promote the use of eMB-Pigs to capture & collate on-farm antibiotic use data
- Benchmark farm level antibiotic use
- Extend education in effective disease control strategies
- Promote veterinary prescribing principles and strictly limit the use of CIAs
- Reduce antibiotic use
- Ensure compliance through Red Tractor
eMB-Pigs

301 users
1,361 holdings
2015 data for 54% slaughter pigs
Drive for 70% to determine meaningful reduction targets
Target enzootic use

Tuesday 29 November 2016 6:00

Antibiotics use in the pig industry has been monitored recently with figures released last week by the Veterinary Medicines Directorate suggesting it is in decline. However, work is taking place in the UK to try and already sales of products licensed for enzootic use, according to latest VMD figures, by 20% over the past five years. Fall across all the sectors. See also: Practical measures Richard Pearson, [...]

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Alternative therapies

Production Process

1. Step 1: Viral and bacterial pathogens weaken the animal.

2. Step 2: Identify the pathogen.


4. Step 4: Treat the animal.

5. Step 5: After treatment, the animal forms antibodies against the pathogen.

Scientists take a fertilised egg from a pig, then snip out the normal version of an immune gene called RELA.

2. RELA gene replaced with a version carried by African pigs, such as a warthog.

3. Embryos transferred back to mother pig using standard IVF procedures.
Education at all levels

Level 2 Certificate of Competence in the Safe and Responsible Use of Veterinary Medicines (0141-21)

June 2016 Version 1.0

Qualification Handbook

Specific content on AMR and responsible use of antibiotics
## PVS Prescribing Principles

### Classes of Antimicrobials

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS 1</td>
<td>STANDARD PRESCRIBING WITHIN RESPONSIBLE USE GUIDELINES</td>
</tr>
<tr>
<td>CLASS 2</td>
<td>NOT TO BE USED UNLESS SENSITIVITY TESTS OR CLINICAL EXPERIENCE HAS PROVEN THAT FIRST CHOICE ANTIMICROBIALS ARE NOT EFFECTIVE OR AVAILABLE WITHIN TERMS OF THE SPC SUBJECT TO POINT 4 BELOW</td>
</tr>
<tr>
<td>CLASS 3</td>
<td>PRODUCTS OF LAST RESORT; ONLY TO BE USED WHEN NO OTHER OPTIONS ARE AVAILABLE AND SUPPORTED BY LABORATORY SENSITIVITY TESTS OR IN EXTREME CIRCUMSTANCES WHEN ALL ELSE HAS FAILED</td>
</tr>
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</table>

### Antimicrobials

- **Fluoroquinolones**
- **Amoxy/Clav**
- **3rd & 4th gen Cephalosporins**
- **Colistin**
Encouraging progress

- Sales of CIAs remain low, as does resistance
- Colistin use is at 0.12mg/PCU - lower than EMA recommended minimum of 1mg/PCU
- Next year will be even better!

Source: UK-VARSS 2015
Medicated piglet feed declining
Medicated Starter/Weaner Feed produced in GB

National production

- ZnO Only
- Antibiotics only
- non POM
- All
- ZnO + Antibiotic combination

Q1 2014 to Q3 2016

Tonnnes: 0 to 140,000
More to be done

- RUMA Targets Task Force
  - Sector specific target
  - Will be based on 2015 data – must have enough
  - Not clear whether % or figure
  - To be agreed by July 2017
  - Will be deliberately challenging

- NPA Producer Group and AHDB Pork Board leadership

- Veterinary ambassadors

- Red Tractor changes
Common challenges

- The UK pig industry uses 5 times more than Denmark
- The NPA should ban the use of CIAs
- Routine antibiotic use should be banned
- Prophylactic and metaphylactic use should be banned
- The pig sector should aim for AB free
- Later weaning and a move away from ‘factory farming’
Zinc Oxide

- CVMP decision Dec 2016
- Ban on environmental grounds
- AMR link but lacking evidence
- VMD stakeholder meeting
- Used in 70-90% starter diets
- Hamper efforts to reduce ABs
- UK soils Zn deficient
- CVMP agreed to review position - expected this month
- Commission decision... but!
- Already consulting on phase out period needed.
What we are asking Government to do

- Help us to help ourselves!
- Investment in buildings and innovation leading to healthier herds and lower AB use
  - Tax relief for new builds (Agri ISAs)
  - Similar to Agricultural Buildings Allowance
- Ability to retain the use of ZnO even if for a shorter term (10 years)
- Retain sufficient disease surveillance facilities, knowledge and reliable testing
- Evidence based reports – FSA MRSA risk assessment
- Brexit deal – equivalent standards
Thank you

ANY QUESTIONS?

Zoe.davies@npanet.org.uk