Opportunities and Challenges of prescribing antibiotics in farm animal practice

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In the UK, 3 times more antibiotics are used to treat people than animals on a ‘kg for kg’ basis.

One Health report 2019 (using 2017 data), based on tonnes of active ingredient.

Produced by RUMA www.farmantibiotics.org
Sales for food-producing animals (mg/kg)

Sales of veterinary antibiotics for use in food-producing animals, adjusted for animal population, were 28.3 mg/kg; a 2.0 mg/kg (6%) decrease since 2020 and an overall 34 mg/kg (55%) decrease since 2014. This represents the lowest sales to date.
Sales of Highest Priority Critically Important Antibiotics (HP-CIAs) in food-producing animals account for 0.4% of total sales and have dropped from 0.14 mg/kg in 2020 to 0.12 mg/kg in 2021; an 18% decrease since 2020.
Challenges...

Gareth asked a question in Sheep Farmers UK.

what the best injection to cure joint illness in a young lamb, pet lamb

George
Betamox and metacarpal every other day for a week seemed to help

Jennifer
Definitely Betamox LA every day for 5 days.

Ross
Noroclav

Richard
Betamox LA and a anti inflammatory every other day for a week at least 3 injections.
🌟 COMPETITION TIME! 🌟

We love progress updates on our cases. This bull was born last spring by a caesarean section performed by vet... Now at just over 11 months of age he’s quite some fella! Known as _the beast from the East_... we are offering a £25 gift voucher for Yorkshire Handmade Pies for the person who is closest to guessing _’s (the bull that is!) weight (see image 2).

To enter, simply...

👩‍❤️‍💋‍👩 Like this post
👩‍❤️‍💋‍👩 Write your guess (in kgs) in the comments below.

Entries close at 8pm on Monday 8th and the winner will be announced on Tuesday 9th!

😊 😊

# _beast #teambeef #PieWeek #buylocal #supportindependent
Convenience?
Differences in opinion on antibiotic prescribing?
Sheep Industry TTF targets

<table>
<thead>
<tr>
<th>SPECIES AND TARGET</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>Sheep</td>
<td></td>
</tr>
<tr>
<td>Reduce overall use by 10%</td>
<td>Data unavailable</td>
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<tr>
<td>Halve use of highest priority antibiotics</td>
<td>Data unavailable</td>
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<tr>
<td>Co-ordinate collection of antibiotic use data</td>
<td>Metrics published 2019/centralised database live 2021</td>
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<tr>
<td>Reduce lameness (including 5% yearly rise in footrot vaccine sales)</td>
<td>Vaccine sales 2019 up 1% on 2018; 2020 data due 2021</td>
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<tr>
<td>Reduce abortion (including 5% yearly rise in enzootic abortion vaccine sales)</td>
<td>Vaccine sales 2019 up 1% on 2018; 2020 data due 2021</td>
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<tr>
<td>Reduce antibiotic use in neonatal lambs by 10% yearly</td>
<td>Achieved targeted 34% reduction 2016-2020</td>
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<tr>
<td>Plan to tackle vet and farmer behaviour</td>
<td>Communications ongoing – communications campaigns on ‘Plan Prevent Protect’</td>
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Davies et al. Quantitative analysis of antibiotic usage in British sheep flocks. Veterinary Record 2017 181:511
207 Flocks, 8 Vet Practices

Use around lambing

Davies et al. Quantitative analysis of antibiotic usage in British sheep flocks. Veterinary Record 2017 181:511
207 Flocks, 8 Vet Practices

Year round Oxytetracycline use - lameness

Davies et al. Quantitative analysis of antibiotic usage in British sheep flocks. Veterinary Record 2017 181:511
Supply challenges...

![Graph showing the sale of oral antibiotics for UK lambs.](image)

**Sale of oral antibiotics for UK lambs**

<table>
<thead>
<tr>
<th>Period</th>
<th>Total doses sold</th>
<th>% Decrease on previous year</th>
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<tbody>
<tr>
<td>SEP 15 - AUG 16</td>
<td></td>
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<tr>
<td>SEP 16 - AUG 17</td>
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<td>SEP 17 - AUG 18</td>
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<td>SEP 19 - AUG 20</td>
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<tr>
<td>SEP 20 - AUG 21</td>
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*Kynetec data supplied by kind permission of MSD Animal Health*
Opportunities for change

The Medicine Hub for cattle and sheep

ahdb.org.uk/medicine-hub
Are you a FVC?
Be Dynamic! Be S.M.A.R.T!

Course: Dynamic Health Planning for Vets in Practice (sruc.ac.uk)
Dynamic Health Planning

Farmer → Set Targets → Vet → Risk Plan → Monitor → Nutritionist → Consultant → Review → Farmer
Practice Team Engagement