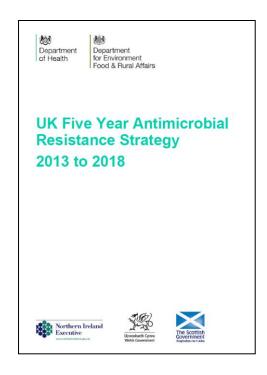


Developing a collaborative approach to reducing antibiotic use

Presented by: Dr Fraser Broadfoot MRCVS

Timeline of Actions - strategic

- 2013 One Health UK AMR Five Year Strategy published
- 2014 Independent Review on AMR Commissioned
- 2015 AMR added to UK National Risk Register





1993 – Antibiotic sales data collection for animals starts

Table 12: Sales of total antibiotics for food-producing animals only (tonnes active ingredient) by food animal species 2006–2011

	2006	2007	2008	2009	2010	2011	
	Tonnes Active Ingredient						
Cattle Only Products	10	9	11	11	11	12	
Pig Only Products	71	66	62	62	47	62	
Poultry Only Products	17	18	31	37	50	23	
Sheep Only Products	<1	<1	<1	<1	<1	<1	
Fish Only Products	4	4	1	3	1	2	
Pig and Poultry Combined Only	234	216	195	205	252	162	
Multi Species Products In Food Animals Only	21	22	28	31	29	29	
Total	356 [*]	335	327	349	390	290	

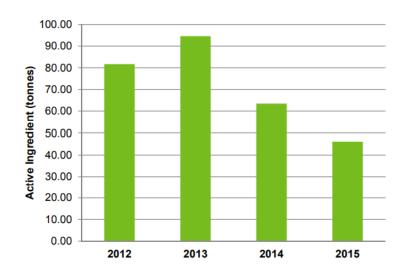
A difference in rounding from Table 2 gives a total of 358 tonnes.

- 1993 Antibiotic sales data collection for animals starts
- 2011 British Poultry Council Stewardship formed



- 1993 Antibiotic sales data collection for animals starts
- 2011 British Poultry Council Stewardship formed
- 2015 Poultry antibiotic usage data published

Figure A4.1: Tonnes of active ingredient of antibiotic used by all members of the BPC Antibiotic Stewardship Scheme 2012-2015

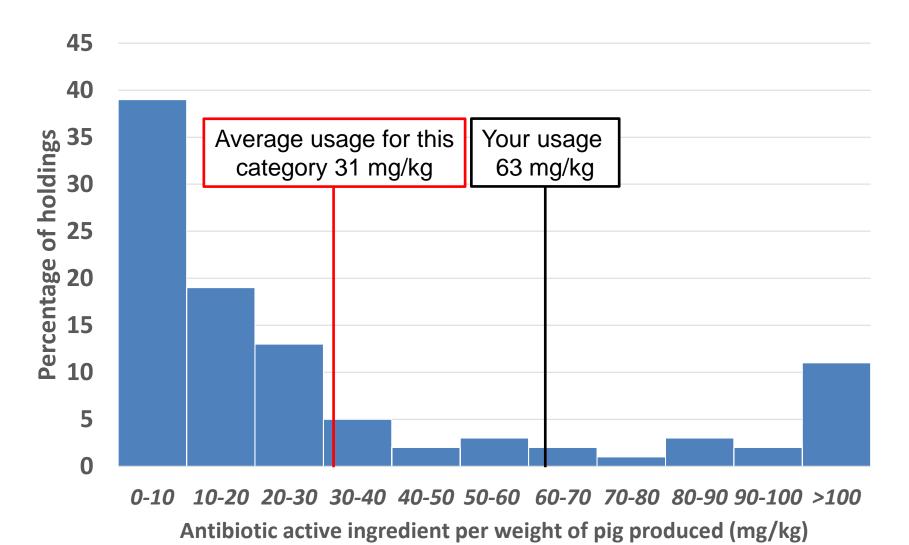


- 1993 Antibiotic sales data collection for animals starts
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- 1993 Antibiotic sales data collection for animals starts
- 2011 British Poultry Council Stewardship formed
- 2015 Poultry antibiotic usage data published
- 2016 Pig industry developed stewardship programme and launches electronic Medicines book for pigs
- 2017 Antibiotic use data published for pigs, laying hens and gamebirds
- 2018 Antibiotic use data published for salmon and trout
- 2021 Medicine Hub for ruminants launched

Benchmarking

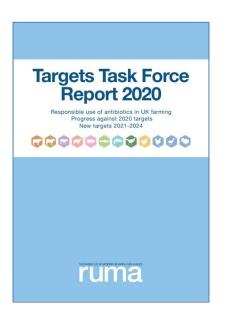


Timeline of Actions – targets

- 2015 RUMA plans industry taskforce
- 2016 Government response to independent review on AMR committing to developing sector targets
- 2016 Industry taskforce used to develop sector targets
- 2017 Sector targets published

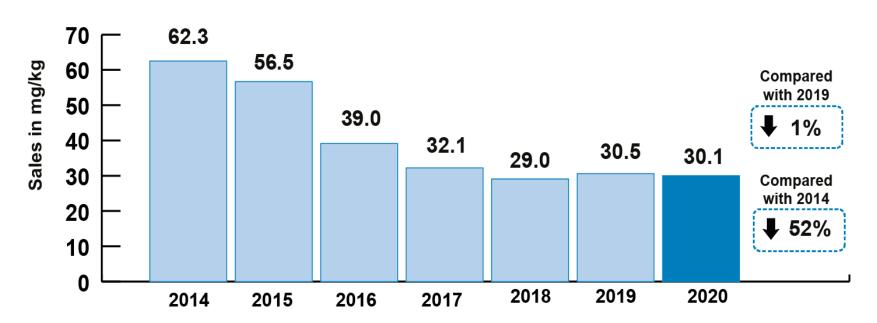






Antibiotic Sales Data – Food Producing Animals

Sales for food-producing animals (mg/kg)

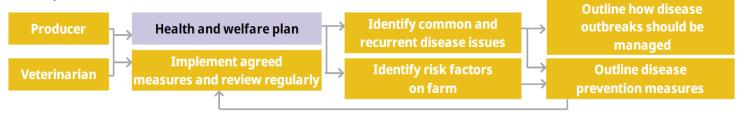


Source: UK-VARSS 2020 - https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment data/file/1033825/VARSS Main Report Final Accessible version.pdf

FAO e-learning Session Three

The role of food and agriculture stakeholders in antimicrobial resistance **Proactive approach**

The next diagrams highlight the importance of a **proactive approach** to preventing disease. An important part of this involves veterinarians* and producers working together to create, implement and monitor health and welfare plans and focus on long-term improvements.



The role of food and agriculture stakeholders in antimicrobial resistance **Record-keeping**

This diagram highlights the importance that keeping good records has for monitoring disease/treatments and informing management decisions. This includes monitoring the supply, use and prescription of antimicrobials, and assessing the health and welfare of the treated and untreated animals.

Click on the hand icon to learn more	Supply records	Use records	Prescription records	Health and welfare monitoring	Adverse events	Clinical records/laboratory test results
Wholesale and retailer distributor	ß					
Medicated feed manufacturers	Ģ					
Producer		Ş		Ş		
Veterinarian*			Ģ	Ģ	Ģ	Ģ

*or other suitably trained person authorized in accordance with national legislation

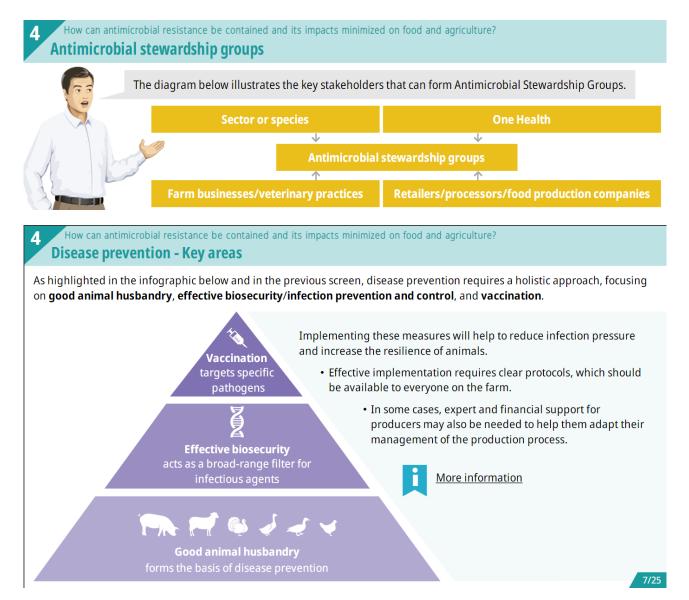


Learn more about record-keeping

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The role of food and agriculture stakeholders in antimicrobial resistance 3 **Monitoring antimicrobial use** Antimicrobial use data can be collected in several ways and has many benefits. **Data sources** Central database Prescriber/supplier Producer Measure trends and effects of control measures Click on the yellow buttons to learn more **Benchmarking Set national targets Identify risk factors** Reputation/public confidence 19/24

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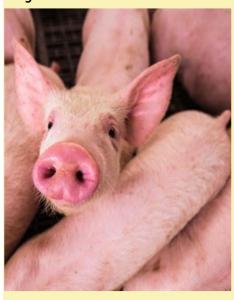


FAO e-learning Session Four

4 How can antimicrobial resistance be contained and its impacts minimized on food and agriculture? **Sector examples**

Below are some examples of diseases in various animals sectors.

Pigs



Respiratory diseases:

Example of biosecurity in Indonesia



Biosecurity interventions can be practical yet inexpensive. For example, the 3-Zone Biosecurity model that FAO's Emergency Centre for Transboundary Animal Diseases (ECTAD) and partners developed divides a farm into three separate areas, according to the associated biosecurity risk:

- high-disease risk external areas (red zone);
- medium-risk service areas (yellow zone); and
- the clean and highly secure access-restricted **green zone**, where the chicken flock is located.

 Click on the arrow to learn more



Conclusion - Key factors of success

- Strong leadership
- Collective approach with accountability
- Cross sector organisations to lead on the work
- Strong relationship between farmers and vets
- Government and livestock industry working together
- Setting targets relevant to the challenges of each livestock sector
- Access to data to set and monitor targets and assess impact
- Clear and transparent communications