



# Collecting data on the use of antibiotics in animals

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# Why are data on antibiotic use important?



### One Health Issue, One Health Approach

Data collection is a UK Government objective – human and animal data

Two aspects;

- AMR Surveillance
- Sales and use of antibiotics



Data on antibiotic use help us to;

- monitor and analyse trends in use
- identify sub-optimal use and associations with resistance patterns
- design appropriate interventions to control the development of resistance
- assess the impact of any actions taken.



Two European processes ongoing in parallel;

- methods for data collection across EU
- draft Regulation on Veterinary Medicinal Products



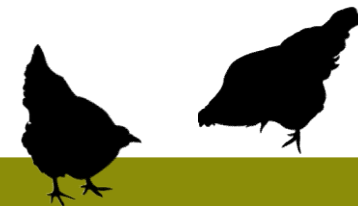


ESVAC =

European Surveillance of Veterinary Antimicrobial  
Consumption project

[http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document\\_listing/document\\_listing\\_000302.jsp](http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/document_listing/document_listing_000302.jsp)

Developing harmonised EU methods for data collection  
on use of antimicrobials in priority species – pigs, poultry,  
cattle





# Draft Regulation on Veterinary Medicinal Products

### *Article 54*

#### *Collection of data on the sales and use of antimicrobial veterinary medicinal products*

1. Member States shall collect relevant and comparable data on the volume of sales and the use of veterinary antimicrobial medicinal products.
2. Member States shall send data on the volume of sales and the use of veterinary antimicrobial medicinal products to the Agency. The Agency shall analyse the data and publish an annual report.
3. The Commission shall be empowered to adopt delegated acts in accordance with Article 146 in order to establish detailed rules on the methods of gathering data on the use of antimicrobials and the method of transfer of these data to the Agency.
4. The Commission may, by means of implementing acts, set up the format and the requirements for the data to be collected in accordance with this Article. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 145(2).



# **What do we already know about antibiotic use in animals in the UK?**





By weight of active ingredient;

Nearly  $\frac{3}{4}$  of all sales of antibiotics authorised for use in animals are authorised for use in **pigs, poultry or both**

More than half are authorised for use in both pigs and poultry





## Antibiotic sales data (tonnes active ingredient)

	2011	2012	2013
Cattle Only	12	14	14
<b>Pig Only</b>	<b>62</b>	<b>65</b>	<b>61</b>
<b>Poultry Only</b>	<b>23</b>	<b>22</b>	<b>19</b>
Sheep Only	<1	<1	<1
Fish Only	2	2	1
<b>Pig and Poultry Only</b>	<b>162</b>	<b>245</b>	<b>226</b>
Non Food species	35	35	36
Multi-species Food	29	33	34
Multi-species Food + Non Food	21	29	29
<b>Total</b>	<b>346</b>	<b>445</b>	<b>420</b>



# Developing a UK approach to data collection

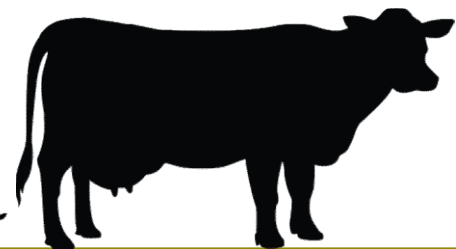


### Conclusions reached;

- Data on usage are already recorded but not readily accessible
- Not feasible to directly adopt other EU systems
- No single solution for all species or commodity sectors
- Central co-ordination needed and likely to encourage participation



- Focus on antibiotics
- Focus on pigs, poultry, cattle as priority
- Take a commodity sector-specific approach
- Incrementally building towards UK-wide all species data collection and capture system with benchmarking at farm level
- Minimum requirement of UK wide **annual aggregate data by product and commodity-sector group for the priority species.**





VMD central data hub for antibiotic sales and usage data

- linked to VMD product databases
- define essential data and standard data formats

Support and boost private sector led initiatives in priority livestock sectors and medicine supply chain

- facilitate and co-ordinate
- technical and financial support

Antibiotic use in companion animals – research projects  
(e.g. VetCompass, SAVSNET)





Creativity and collaboration across the UK sectors, achievements and plans;

- Pig Sector – Martin Smith (AHDB Pork)
- Poultry Sector – Máire Burnett (BPC)
- Cattle Sector – Brian Lindsay (CHAWG)
- Pharmaceutical Industry – Dawn Howard (NOAH)
- IT Industry – Phil Sketchley (Adviser to IT industry)





**Thank You**