



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Collecting data by species, establishing technical units of measurements and indicators. State of play

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Data on consumption of antimicrobial agents per animal species, technical units of measurement and indicators

As a 1st step reflection paper developed

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Animal species suggested to be prioritized

Table 4. Animal species and age groups/production category most relevant for surveillance of consumption of veterinary antimicrobial agents

Species	Age group/Production category	Proposed reference weights at treatment for the age group ¹
Pigs	Piglets	2 kg
	Weaners	7 kg
	Sows/boars Finishers	220 kg 35 kg
Cattle	Veal calves	170 kg
	Dairy cattle	500 kg
	Meat cattle (beef)	500 kg
Poultry	Broilers	1 kg
	Turkeys	10 kg

¹ Proposed weights might change after the public consultation period.



Antimicrobial groups to be included

Table 5. Groups of veterinary antimicrobial agents to be included in the surveillance by animal species as applicable (ATCvet = Anatomical, therapeutic and chemical veterinary classification)

Groups of antimicrobial agents	ATCvet codes
Antimicrobial agents for intestinal use	QA07AA; QA07AB
Antimicrobial agents for intrauterine use	QG01AA; QG01AE; QG01BA; QG01BE; QG51AA; QG51AG
Antimicrobial agents for systemic use	QJ01
Antimicrobial agents for intramammary use	QJ51
Antimicrobial agents used as antiparasitic agents	QP51AG



Methods collecting data by animal species

- The recommended methods are ranked in order of preference:
- Continuous automated data collection including **all** prescriptions/administrations/delivery in a country.
- Cross-sectional or prospective longitudinal studies in representative number of farms in order to **estimate** national consumption, in tonnes of active ingredient, by species, age group and production category
- Stratification by species based on overall sales data



Data to be provided to ESVAC

- The data to be provided to the ESVAC will be the prescribed or estimated amounts consumed, in **weight of active ingredient**, by country and year of each product (name and pharmaceutical form or administered route) per defined animal species and age group/production type.
- These will be analysed and **reported** in ESVAC by use of **technical units of measurement** that is harmonized across EU



Technical units of measurement

- The proposed **technical units of measurement** for reporting of the data in ESVAC by animal species are
- Weight of active ingredient
- Defined daily dose animal = DDDA
- Defined course dose animal = DCDA
- DDDA and DCDC should be assigned for the species suggested to be prioritised in the ESVAC project – i.e. pigs, poultry and cattle.



Indicators

- The proposed indicators to be used for reporting of the consumption of antimicrobial agents by species the proposed indicators are:
- Weight of active ingredient consumed by age group/1000 animals/year.
- Number of DDDA or DCDA consumed by age group/1000 animals/year.



Suggestions for implementation

- As a first step
 - Develop an ESVAC protocol on collection of consumption data by species by MSs
 - Develop an ESVAC template on data to be provided to ESVAC
 - Run a pilot project to test the protocol and the template in a limited number of MSs that are willing to participate and to collect and analyse these data by the ESVAC team



Suggestions for implementation cont

- In parallel, to develop guidelines on how to assign DDDA and DCDA values for pigs, poultry and cattle across EU
- To subsequently establish EU wide DDDA and DCDA values for these species



Responses to consultation reflection paper

- Pig Veterinary Society (UK)
- LEI (Wageningen University and Research centre)
- National Food institute, Technological University of Denmark
- Jansegers Luc (Belgium)
- Veterinary Medicines Authority (SDa), Utrecht, The Netherlands
- National Farmers Union of Scotland
- FVE – Federation of Veterinarians of Europe



Responses to consultation reflection paper

- Finnish Food safety Authority (Evira) and Finnish Medicines Agency (Fimea)
- IFAH-Europe
- IFIP - The French Institute for Pig and Pork industry
- COPA-COGECA - European farmers and European Agri-cooperatives
- European Group for Generic Veterinary Products (EGGVP)
- Dr Juliane Bräunig, Bundesinstitut für Risikobewertung, Germany



Actions

- The reflection paper will be revised by the drafting group and the ESVAC team.
- Revised reflection paper will be published on our web pages
- Overview of comments received with our considerations will also be published.