

ESVAC Stakeholder Meeting

Olivier Espeisse, IFAH-Europe, March 18th, 2013



Data 2009

- 9 countries
- mg/kg bodyweight
- Imports/Exports, Species & Dose limitations

- Data 2010

- 19 countries : Spain, Portugal, France, UK, Ireland, Belgium, Netherlands, Denmark, Sweden, Finland, Estonia, Latvia, Lithuania, Iceland, Czech Republic, Austria, Slovenia, Hungary, Norway

- **ESVAC Discussion Paper : Unit of Measurement and Species**



ESVAC report 2010

- Comparison among countries difficult
 - Species mix may differ
- IFAH-Europe considered that improvements on species split and unit of measurement were necessary
- ESVAC discussion paper has made proposals



ESVAC Discussion paper

- ESVAC Process
 - Working group on unit of measurement
 - Working group on separation by species
 - One report “Discussion paper”
 - Following slides will discuss options proposed by Discussion paper and make recommendations
 - Unit of measurement
 - Data collection
 - Species to be collected
 - Product categories to be collected
 - Pilot project



Unit of Measurement

- 3 basic measures for measuring antibiotics
 - Frequency (how many applications or treatments)
 - Dose (mg/kg bodyweight)
 - Duration (how much time)



Unit of Measurement

- Tons
 - Very basic
 - Does not take into account difference among antibiotics in dosage, duration
 - Does not take into account differences among countries - species



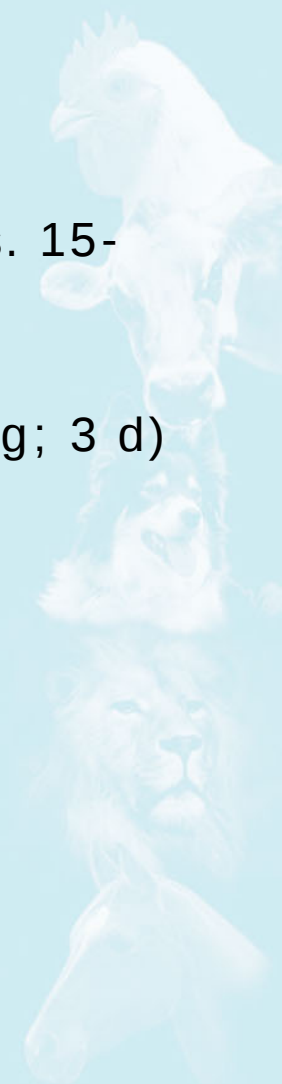
Unit of Measurement

- mg active/kg bodyweight
 - Crude measure
 - PCU used by ESVAC is variation of mg active/kg LW
 - Variation takes into account exports and imports of live animals
 - Measures only “intensity”
 - Encourages prescription of more potent antibiotics



Unit of Measurement

- The issue of potency
- Oxytetracycline: $20\text{mg/kg} * 10\text{ kg} * 6\text{ days} = 1200\text{mg}$ (pos. 15-40 mg/kg; 5-7 d)
- Cefquinome: $1\text{mg/kg} * 10\text{ kg} * 3\text{days} = 30\text{ mg}$ (pos. 1mg/kg; 3 d)



Unit of Measurement

- DDD (Defined Daily Dose)
 - DDDa (animal) sometimes also called ADD (for animal)
 - Daily dose per kg per day
 - A compromise of different doses throughout EU (if different SPCs) that may not reflect reality
 - Does reflect labels but may not reflect practice
 - Measures intensity and duration but not frequency (numbers of animals treated)
 - 1 treatment 10 days = 10 treatments of one day
 - DDDs do not reflect exposure



Unit of Measurement

- DCD (defined Course Dose)
 - DCDA (animal)
 - Dose per treatment per kg animals
 - Assumes dosing and duration according to label
 - Measures frequency and intensity but not duration
 - $DDD/DCD = \text{duration}$



Unit of measurement: recommendation

- ESVAC discussion paper recommends both DCDs and DDDs
- IFAH-Europe would recommend treatment (DCDs) as the **lead** measure for measurement
- DCDs best measures exposure or number of animals treated and is in our sense a better base for assessment
- DDDs are sometimes recommended as allowing comparison with human program (ESAC) but there is according to IFAH-Europe little point in comparing humans over a lifetime with a 40-day broiler lifespan



ESVAC Discussion paper

- Data collection
 - Universal data collection at user level (veterinary practice would report every farm) is favoured by IFAH-Europe and ESVAC report but some issues may remain
 - Ensure cost efficient system is put in place
 - Implementation – need computerisation
 - Ensure quality control of data entry and process
 - Harmonization of systems
 - Allows reporting of prescribed data (Prescribed course dose)
 - Validated sample of farms/practices per country may be a less favoured option
 - Focus on poultry, pigs and veal is recommended



ESVAC Discussion paper

- Species to be collected
 - Agree with prioritisation on pigs and poultry, possibly veal as species with highest usage of antibiotics
 - Cattle and dairy in second stage
 - Liveweight proposals may be revised (i.e. veal too heavy)
- Product categories to be collected
 - We agree with the proposal
 - We recommend that national authorities collect and publish similar ATCvet code categories as ESVAC
- Pilot project
 - Sounds a good option



Thank you

