

Guidelines on Clinical Field Studies Testing Parasiticides

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VICH-Guidelines on the Efficacy of Anthelmintics

Efficacy Requirements: Overall Guideline (EAGR) Spec. Recommedations for bovines Spec. Recommendations for ovine Spec. Recommendations for caprine Spec. Recommendations for porcine

Spec. Recommendations for canine

Spec. Recommendations for feline

Spec. Recommendations for equine

Spec. Recommendations for poultry

Dec00 Final/Impl Dec00 Final/Impl Dec00 Final/Impl Dec00 Final/Impl Jul02 Final/Impl Jul02 Final/Impl Jul02 Final/Impl Jul02 Final/Impl

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CVMP-Guidelines on the Efficacy of Ectoparasides

Efficacy Testing for Cattle, Sheep and Goats

Efficacy Testing for the tratment and prevention of tick and flea infestation in Dogs and Cats

Nov01 Consult May01 Final

Further Guidelines applicable

Good Clinical Practice (VICH)

Statistical Guideline (CVMP)

WAAVP guidelines for evaluating the efficacy of anthelmintics for dogs and cats

Jul01 Final/Impl May01 Consult 1994



Assessment Criteria for Field Efficacy

1. Parasite counts

- Anthelminitcs: epg / larval counts
- Ectoparasites: number of fleas/ticks etc.
- 2. Better or equal than the control group
- 3. Calculation of percent effectiveness
 - Anthelmintics: geometric mean (> 90 %)
 - Ectoparasites: arithmetic mean (> 90 %)



Requirements for Different Regions

1. Anthelmintics

 Not mentioned, although requested in the EAGR to be answered specifically per species

2. Ectoparasites

- Dogs and Cats: 2 diff. geographic regions
- Sheep (blowfly): 2 diff. geographic regions

WAAVP (1994): several different geographic regions



Replicate Number per Group

1. Anthelmintics

Minimum 6 per group (dependent on the statistical approach)

2. Ectoparasites

- Dogs & Cats: ticks 50, fleas 50 (per region)
- None mentioned but sheep ",stripping" (200)

WAAVP (1994) Dog & Cat: 100 from each region Minimum of 300 dogs / 150 cats



Specific Protocols

1. Anthelmintics

- A lot of specific guidance for artificial infestations; little guidance for field studies
- No guidance for tapeworm
- 2. Ectoparasites
 - Detailed data capture forms and formular for analysis given, but ...



Ectoparasite Guidelines

- Give detailed guidance for both lab-based and field studies
 - Lack of guidance for positive controlled studies
- May contradict with other guidelines, e.g.:
 - Replicate numbers: Statistical Guideline
 - Protocol: Good Clinical Practice Guideline

Anthelmintic Guidelines

- Give detailed guidance for lab-based infestations
- Are general, species specific and consistent
- Do not give detailed guidance for field studies for both round- and tapeworms
- Lack of guidance for positive controlled studies
- Fit well into the concept of GCP and Statistical Guideline

Quality of Data

- Following the guidelines reduces risk to fail with the scientific quality of data
- Documentation and transparency of the conduct of studies is essential for the integrity, accuracy and correctness of studies (GCP requirements)
- Fraud should be limited but its possibility kept in mind (what happens if guidelines are not followed?)



Thank you!

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