

## INTRODUCTION

- Intestinal parasite infections are still common and important in household dogs and cats. The most frequent parasite is *Giardia duodenalis*.
- ESCCAP establishes deworming guidelines based on several factors, like age, pregnancy / lactation status or contact with children.
- Monthly or quarterly coprology tests are an alternative to routine deworming.
- The degree of antiparasitic resistance in companion animals remains largely unknown.

### OBJECTIVE

To know the resistances detected in *Ancylostoma caninum*, *Dipylidium caninum* and *Giardia* spp. against different antiparasitic drugs.

### *Ancylostoma caninum*

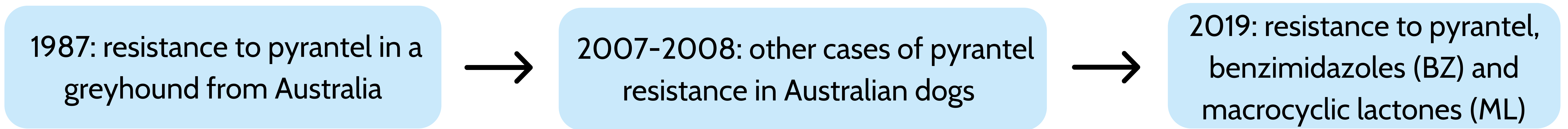


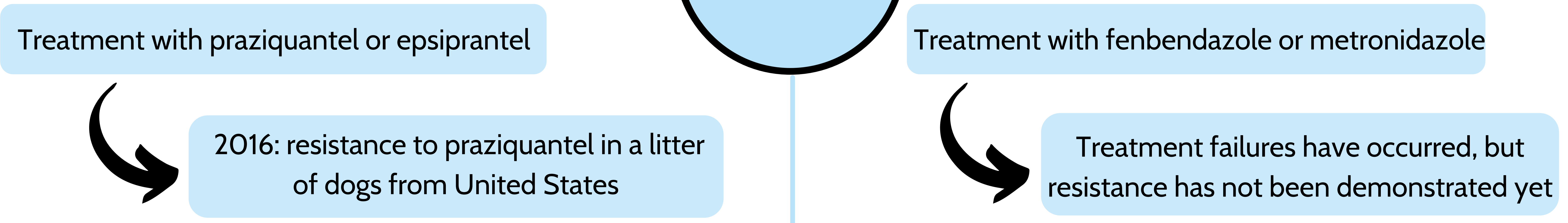
Table 1. Selected reports of resistance in *Ancylostoma caninum* to different antiparasitic drugs.

Antiparasitic drug(s)	Efficacy (%)	Type of assay	Country	Author(s)
Pyrantel	25,7	<i>In vivo</i>	Australia	Kopp et al. (2007)
Pyrantel	First isolate: 27,5 Second isolate: 71	<i>In vivo</i> and <i>in vitro</i>	Australia	Kopp et al. (2008)
Pyrantel Fenbendazole (BZ) Milbemycin oxime (ML) Emodepside + Praziquantel	23,2 26,1 8,8 99,6	<i>In vivo</i> , molecular and <i>in vitro</i>	United States	Jimenez Castro et al. (2019, 2020)

### *Dipylidium caninum*



### *Giardia* spp.



## CONCLUSIONS

- *A. caninum* presents multiple drug resistance (MDR).
- The antiparasitic resistance described in *D. caninum* has only been clinically confirmed.
- In the case of *Giardia* spp., more studies are needed to demonstrate resistance in companion animals.
- It is suggested that the emergence of antiparasitic resistances will occur if a routine and intensive deworming pattern is applied without a prior diagnosis.

## REFERENCES

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