

ALTERNATIVE TREATMENT TO ORAL IVERMECTIN IN STRONGYLOIDES STERCORALIS HYPERINFECTION IN THE SETTING OF SMALL BOWEL OBSTRUCTION AND PARALYTIC ILEUS.

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Background and importance

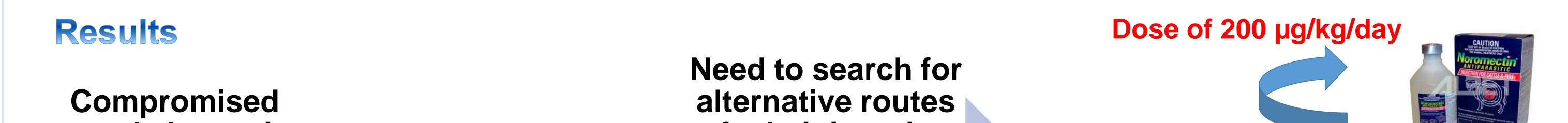
Gastrointestinal complications, including small bowel obstruction and paralytic ileus, are associated with Strongyloides stercoralis hyperinfection syndrome, decreasing oral bioavailability. Ivermectin is the first-line agent for the treatment of strongyloidiasis as well as S. stercoralis hyperinfection. In Europe, ivermectin is available in oral and parenteral formulations; however, the European Medicines Agency (EMA) has approved

Aim and objectives

The aim of the study is to describe alternatives to oral ivermectin when enteral absortion is compromised, regarding a recent case in our hospital.

Materials and methods

- \checkmark A bibliographic research was made using databases such as MEDLINE (PUBMED) and Micromedex.
- \checkmark A specific search for official regulatory documents concerning human and veterinary medical products, from the websites of the EMA was carried out.
- \checkmark Therapeutic options found were assessed by the multidisciplinary infectious diseases team, including a clinical pharmacist.



enteral absorption

Days 1-14

Day 14

of administration



- Subcutaneous ivermectin for veterinary use
- Compounding pharmacists prepared enemas of ivermectin

Oral ivermectin formulations no optimal

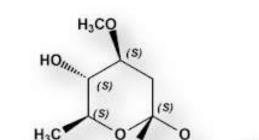
• A progressive decrease in the parasite load was observed. Discontinuation of enema administration due to the appearance of a recto vaginal fistula.

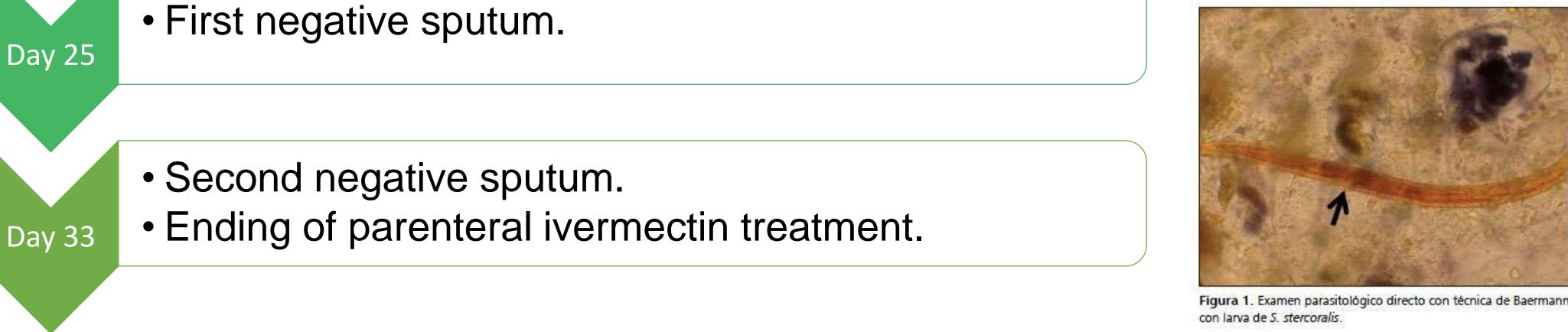
• First negative stool culture.

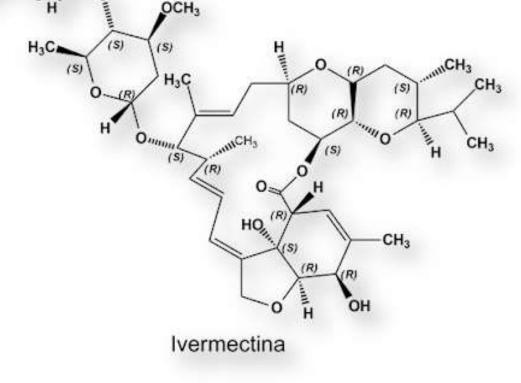




12 mg/30 ml administered every 12 hours







Conclusions and relevance

- The lack of treatment alternatives to oral ivermectin implies the use off-label of other therapies.
- Subcutaneous ivermectin available for veterinary use and rectal ivermectin compounding from marketed tablets could be valid options when the oral bioavailability is decreased.
- Further research is needed in order to fill the gap of ivermectin administration in patients with enteral absortion compromised.