Intestinal parasites in camel calves

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Aims: To obtain knowledge about parasites in Bactrian camel calves in Sweden.

Introduction

Intestinal parasites were studied in young Bactrian camel calves (*Camelus bactrianus*) on a farm situated on the island of Öland in Sweden.

The herd is the largest camel herd in Scandinavia and comprises Bactrian camels (n=30), beef cattle (n=70) and llamas (n=20).

Materials and Methods

All camel calves (n=7) born 2009 – March to May were sampled each week from birth to 12 weeks of age, directly from the rectum.



Photo: Signe Erlingsson

In total, 81 faecal samples were examined by Stoll's technique, by larval cultures (nematodes), by immuno-fluorescens (protozoa) and by ELISA (rotavirus group A).



Submitted faecal samples

Results

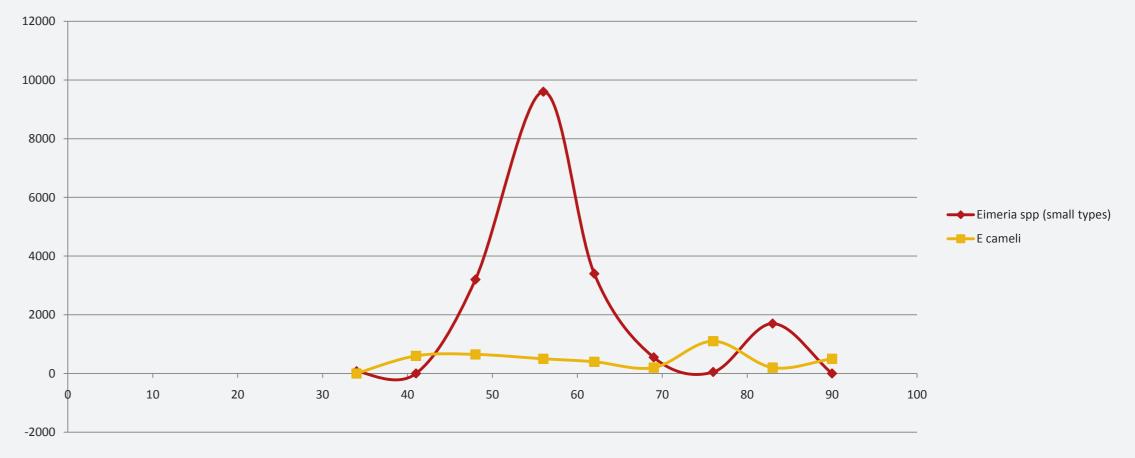
- *Eimeria* spp – small types - was the most prevalent finding (45/67) and opg ranged between 50 – 66 000.

- Prevalent findings were *E cameli* – the large *Eimeria* - (41/67, 50-4400 opg), Trichostrongylidae (18/68, 50-600 epg) and *Giardia* sp (28/79).

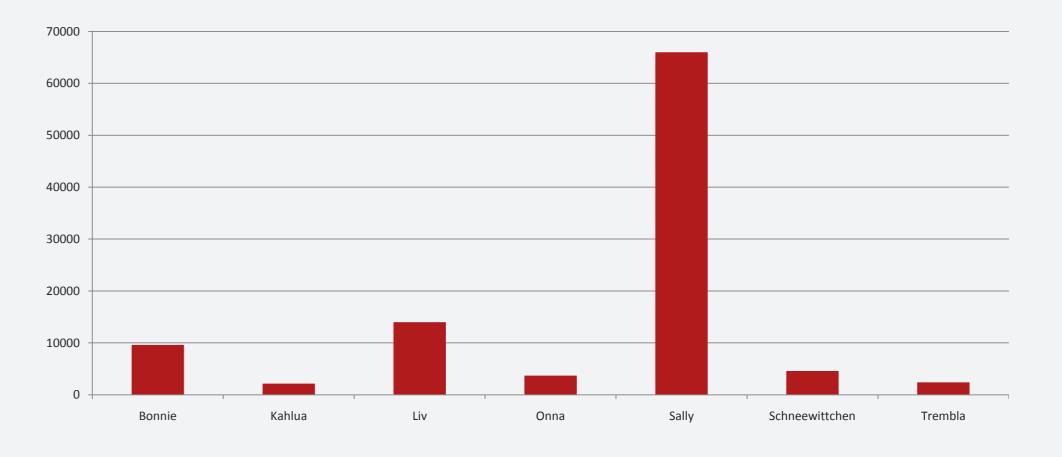
Conclusion

The calves excreted *Eimeria* oocysts between 40 and 90 days of age, in uni- or bimodal peaks. One single calf excreted a major part of the oocysts.

The parasites did not cause clinical symptoms.



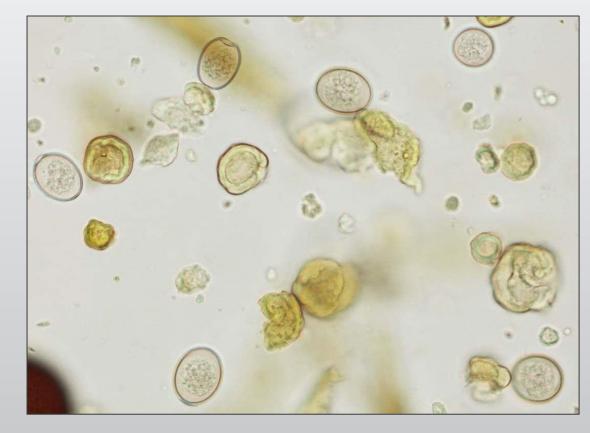
Excretion (opg) of *Eimeria* spp during 0-100 days of age in one of the seven sampled camel calfes ("Bonnie").



- -Rare findings were *Trichuris* sp (4/68) and *Crypto-sporidium* sp (1/80).
- -Haemonchus sp and rotavirus were not found.
- -All calves were healthy throughout the study period.

Maximum excretion (opg) of *Eimeria* spp (small types) in seven camel calves.

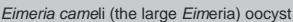
Photos of parasites from the camel calves during the study:



Eimeria bactriani (small type) oocysts



Sporulated Eimeria bactriani (small type) oocyst







Trichuris sp egg



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