Occurance of Cephalopenia titillator in Camels (Ca dromedarius) at Tripoli-Libya

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Abstract

Forty camels were examined at Tripoli slaughter housse, ten of then were found infected with Cephalopenia titillator (camel nasal bot fly). The larvae occurred mainly in the nasopharynx and occasionally were found embedded between turbinated bones. The nasal cavity was congested and filled with mucus in which some larvae were entangled. The mear laval burden were 5.3. The rates of different larval stages were 32% L1 74.5% L2, and 43.5% L3.

The results indicate lower infection rates in Libya than other neighboring countries.

Introduction

Cephalopenia titillator the camel bot fly is a cosmopolitan parasite and is all camel-raising parts of the world (Zumpt, 1965; and Soulsby, Reprinted, high incidence has been reported in Chad (Graber and Gruvel, 1964) and oth of west Africa (Currasson, 1947) as well as the Sudan (Steward, 1950 (Soliman, 1965), Ethiopia and Somali, (Bekele, 2001), Jordan (Sharif et. A Iraq (Abul hab and Alaffass, 1977), Iran (Rak and anwari, 1974), India Bruneti Pakistan (Minar et. Al. 1977), and USSR (Kunichkin, 1975)

Its pathogenic effects are frequently underestimated despite its high prein camels. The nasopharyngeal myiasis of camels is caused the la Cephalopenia titillator Clark 1797, Clinically the disease characterized by re and neurological disorders (Droandi, 1936 and Currasson, 1947). The maj lesions observed were congestion of the pharyngeal mucosa with profuse se and haemorrhage in early cases. In some cases ulcers-like lesions and noduli contained pus (Bekele, 2001).

In Libya like most other regions the camel bot fly is quite frequent. A $\mathfrak p$ isolated reports no epidemiological studies have been made and therefore the work was undertaken to study the prevalence of infection in slaughtered $\mathfrak q$ Tripoli area.

Materials and Methods

Forty heads of camels (Camelus dromedarius) were collected from a shouses in Tripoli which deals with animals raised locally. Most of the animals e were 4 months to 4 years old. Sexes were sampled are males only. After reskin from the head a sagittal section was cut with a hand saw. All the sinus

opened and larvae were collected from nasal passages, anterior and poster head sinuses. After all the heads of a given batch were processed, First, Se third instars (L1, L2 and L3) were counted and identified according to keys (1965).

Results

Out of 40 examined animals in the slaughter places survey 10 (2 infected with Cephalopenia titillator.

Most cases developed no obvious signs other developed clinical signs discharge, restlessness, frequent sneezing and snoring on inspiration. Exan the nasal cavity following slaughter revealed that the sinuses were congeste dark mucus in which the larval stages of parasite were entangled (Fig. 1).

The mean larval burden in infected animals were 5.3 with 1.7 L1, 1.3 L L3. out of 53 recovered 32% were L1, 24.5 % L2, and 43.5 % L3.

The first instar larvae were never found in the posterior part of fronta. Third instar larvae recovered from nasopharynx and oropharynx were all numbers of first, second, and third instar larvae recovered from heads were 16 respectively (fig.2).

Discussion

Eggs of this flies are deposited in the nostrils of camels and moult t attached to nasal passages and pharynx (Fatani and Hilali, 1994).

The present study showed that camels in Libya are not highly inf Cepalopenia titillator when compared with other countries. 25% of camels were found to be infected.

Geographically, Camel nasal flies occur wherever camels live (Zur Infection rates of 47%, 81%, 86 %, and 74% were reported from Iraq, Egyp and Sudan respectively (Soliman, 1965, Alani et. Al. 1991).

Results in this study revealed that the percentage in Libya less country. There are no differences in infection rates in different ages of the animals.

Results of the present investigation describes for the first time the oc Cephalopenia titillator in Libya and provide base line data for the futu concerned with Cephalopenia titillator in camel in Libya.

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Fig.1: Larvae of Cephalopenia titillator accumulated in the nasal cavity

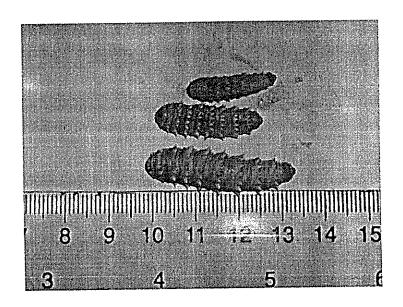


Fig.2: Larvae of Cephalopenia titillator in different size