Seroprevalence and Associated Risk Factors of Brucellosis in Sheep and Human in Four Regions in Matrouh Governorate, Egypt.

Diab MS, Elnaker YF, Ibrahim NA, Sedeek EKh and Zidan Sh-A-A.


ABSTRACT
Brucellosis is a worldwide zoonosis that has major public health concern in Egypt. The present work was conducted to investigate the seroprevalence of brucellosis in sheep and human in four localities in North Western region of Egypt, on basis of the Rose Bengal plate test (RBPT) and further confirmation by complement fixation test (CFT). A total of 2471 sheep serum samples and 371 human samples were collected. The prevalence of brucellosis in sheep and human by using RBPT were 11% (272/2471) and 24.3% (90/371), respectively while by CFT were 10.56% (261/2471) and 22.91% (85/371). There was significant relationship between age and infection rate in sheep (P< 0.01), with higher percentage of infection was indicated in age group over than 24 months by 14.19% (264/1860) followed by age group less than 24 month and over 12 months by 2.39% (8/335). On studying the relation between locality and infection rate there was no significance in human samples while in sheep it was significant (P< 0.01) with higher percentage of infection found in Siwa region by 20.30% (94/463) in sheep and in human by 27.6% (27/98). Concerning season there is highly significant relationship between season and percent of infection with *Brucella*, the high percent of infection found in human and sheep by 43.1% (62/144) and 16.51% (123/745) respectively and lower percent found in spring months by 8% in sheep.

From our result, it is concluded that RBPT and CFT used as screening tests for detection the prevalence of species in serum samples, *Brucella* infection is found with high percent in north, west region of Egypt, which need further examination and studying another risk factor associated with infection and isolation of *Brucella* in this area.

**Keywords:** Brucellosis, Complement fixation test, Human brucellosis, Rose Bengal plate test, Sheep
ABSTRACT

Studies showed that probiotics can be used to prevent or reduce the side effect of oxidative stress and its relation with growth performance under heat stress condition. Fifteen male calves were divided into three equal groups, the first was offered the basal diet as a control group, whereas the second and the third groups were fed the same basal diet as in control, in addition to a daily supplement of 3 g and 6 g dried grinded Baladi Calves. The results showed that RM/kg concentrate, respectively, for a period of one month. The results showed that RM supplemented groups showed significant (P< 0.01) improvement (P< 0.05) on growth performance indices (Average daily gain, growth rate and total weight gain) compared with control subgroups in both genders. Probiotics increased (P< 0.01) the values of plasma total protein, glucose, urea nitrogen and aspartate aminotransferase concentrations remained relatively stable throughout the study period, while plasma immunoglobulin G increased significantly (P< 0.05) in lambs supplemented with probiotics than control groups. The mean values of plasma immunoglobulin A did not differ in both control and treated groups during the study period. In conclusion, probiotic supplementations can be offered as a possible strategy to minimize the side effect of oxidative stress on growth performance of castrated male calves under heat stress condition.

Keywords:
- Probiotics
- Oxidative stress
- Growth performance
- Heat stress


Successful Surgical Management of Corneo-conjunctival Dermoid Cyst with Bilateral Nasal Choristoma in a Red Kandhari Calf.

Aher V, Bhadane B, Ramchandra Balage P, Dhage G, Gangane G, Asaramji Mate A and Lokhande Devidas S.


ABSTRACT

An old Red Kandhari calf presented at teaching veterinary clinical complex, veterinary college Parbhani with corneo-conjunctival haired masses on the left eye and bilateral nasal growth at nasolabial planum since birth. As the mass was completely covering on cornea due to which vision was hindered completely after physical examination and considering the health status of the calf the surgery was scheduled. The masses were surgically excised from the cornea and bulbar conjunctiva of eye and the left and right side of the dorsomedial nasolabial planum. Then the eye was flushed with normal saline and the tissue of both corneo-conjunctival and nasal were stored in 10% formalin later histopathology of the excised tissue confirmed as a unilateral corneo-conjunctival dermoid with ectopic lacrimal glands and bilateral nasal choristomas with loose stroma and hair follicle. Two months of follow up was done where there was no reoccurrence of the growth observed. Surgery was curative and healing was uneventful.

Keywords: Calf, Corneo-conjunctival dermoid, Nasal choristoma