also affected seed development in fruits. The larvae of the cecidooza may be situated in the septa or in the cavity of the fruits. Horizontal section of gall showed also affected seed development in fruits. The larvae of the 


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ACARIASIS IN AN EMU (DROMAIUS NOVAELLANDIAE) - A CASE REPORT 

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New record of fruit gall D.K.Kulkarni et al. 

Birds serve as hosts for a wide variety of ectoparasites including ticks and mites (Greve, 1986). These not only cause annoyance to the birds but also spread many pathogens including blood protozoa. The infestation by ectoparasites may alter the birds’ behavior by reducing their appetite and result in constant preening and pecking of the affected parts. The present report puts on record, a case of tick infestation and its treatment in a captive emu. 

The prestige ratite a female Emu (Dromaius novaellandiae) in the Arignar Anna Zoological Park, Vandalur, was reported of having inappetance, constant preening and pecking and altered gait. The bird was active and responded to the keeper’s call. A thorough clinical examination was carried out by physically restraining it. To rule out any nutritional cause, the feed ingredients were checked and found to be normal. The droppings were examined and no ova or eggs of helminths were detected. 

The bird preened the feathers particularly over the back region, which was examined thoroughly for wound, growths, inflammation or ectoparasites; no abnormalities could be detected. Then the whole body was examined, which revealed numerous ticks over the skin around the ear canal and lateral sides of the neck resulting in the observed symptoms. The ticks were collected for identification and were identified as Heamaphysalis sp. (Soulsby, 1986). 

Treatment: The condition was treated by applying Deltamethrin solution (BUTOX liquid - Hoechst India Ltd.,) @ 2ml per liter of water sprayed on the affected areas taking care to avoid contact with eyes, left for twenty minutes and cleaned with water. The bird showed improvement from the next day and complete recovery in three days. The enclosure was also sprayed with the acaricide in higher concentration, after shifting the bird to a nearby enclosure. The treatment was repeated after a week to prevent reinfeastation. 

In this case it was difficult to identify the ticks because of the colour of the feathers and skin. The infested area seemed almost normal, with the ticks visible only on close and careful observation. The ticks were found localized in the head and neck regions. Greve (1986) opined that avain hard ticks prefer the head region where they are protected from being dislodged by preening. In this case, the bird was found preening the feathers over the back, but it was actually attempting to remove the ticks by rubbing the head and neck, which resulted in the altered gait. 

Greve (1986) stated that wild birds might be responsible for the introduction of ticks into bird exhibits. The zoological park contains numerous free ranging peafowls and, the emu enclosure being an open enclosure, they frequent the enclosure in search of feed. Subramanian et al. (2002) reported the occurrence of ticks belonging to Heamaphysalis sp. in free ranging peafowls. So the peafowls might be the source of introduction. 

The acaricide used in this case was found to be very effective in controlling the ticks. Greve (1986) suggested the use of rotenone, pyrethrin-piperonyl butoxide, malathion and carbaryl as safe and effective acaricides to be used on the birds. 

To prevent such occurrences in future, it was planned to conduct periodic clinical examination of the bird and the enclosure and to take measures to avoid contact with free ranging peafowls. 

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