

A CASE OF FIBROMA IN A DOMESTIC FOWL

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Introduction

Few incidences of tumors in domestic poultry were reported by Arnall (1966), Blackmore (1966) and Yun and Dekuang (1993). Among the tumors reported, the incidence of fibroma among domestic poultry is rare. Ubiquitous distribution of fibroblasts in the body allows fibromas to occur anywhere, but they are preferentially seen in locations lined by mucus membrane (Madewell and Theilen, 1987). A case of fibroma in a domestic fowl and its successful management is reported.

History and Clinical Findings

A one-year-old hen, weighing 3kg, was brought to the Veterinary College Hospital, Mannuthy with the history of presence of a large hard mass ventral to the cloaca, noticed since three months (Fig 1). Initially it was small and gradually increased in size. By the time it was brought to the hospital, the mass was about 8cm in diameter. The bird was clinically normal and had been laying eggs normally. But the bird could not balance itself on the legs due to the weight of the mass.

On examination, a large mass was seen adhering to the skin ventral to the cloaca. Surgical resection of the mass was resorted to.

Treatment

Ketamine hydrochloride* 2 ml was given intramuscularly to anaesthetize the bird. A circular incision was made around the base of the mass and the mass was dissected out. The mass was not pedunculated and hence was separated from the body by blunt dissection and bleeding points were ligated. The skin edges were apposed with braided silk 1/0 by horizontal mattress sutures. The owner was advised to medicate the bird with

Sulphamethoxazole-trimethoprim combination** for six days. Zinc oxide ointment was dispensed for external application over the suture line.

After one week, the sutures were removed and the bird recovered uneventfully and no recurrence was reported over a follow up period of one year.

On removal the mass weighed 385 gm and had a circumference of 30cm and 20cm lengthwise and breadthwise respectively.

Histopathological examination of the tissue revealed loosely arranged differentiated fibroblasts with focal areas of deposition of collagen. The tissue was relatively acellular with moderate number of histiocytes in the perivascular areas. The blood vessels were dilated and cross-section of bands of muscle bundles was seen at places. The histological findings were consistent with that of fibroma

Discussion

Fibroma is a rare condition in poultry. Dorn and Priester (1987) found that only two out of 90 tumors in birds were fibrosarcoma and they did not come across any case of fibrosarcoma of the skin. A case of neurofibroma was reported by Varkey et

Figure 1: Fowl with tumour



*Ketmin 50- (50mg/ml) Themis Medicare Ltd., Mumbai, 2ml ampoule

**Bactrim PAED tablets, Nicholas Piramal India Ltd., Mumbai

al. (1994) in chicken

Handong Province, China. Chinese J. of Vet. Med. 19: 35-36

Summary

A case of fibroma in a domestic fowl and its successful surgical management is reported.

Acknowledgement

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