HEPATOID GLAND ADENOMA IN TWO DOGS: A CASE REPORT

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Present communication reports two cases of Hepatoid gland adenoma presented for histopathological opinion to the department. Grossly, single circular growth of 5.5 x 7x4 cm in diameter was present at the base of tail in an 8 year-old male Labrador cross. Whereas, the other case was in an adult female non-descript dog with perianal nodular mass of 440 gm and size of 13.5x12 cm in diameter. Both the cases were diagnosed as that of Hepatoid gland adenoma.

**Key words**: Dog, Hepatoid gland adenoma, Histopathology.

Hepatoid Gland adenoma is a benign tumour that arises from modified sebaceous glands that are most abundant in the cutaneous tissues of perianal region and dorsal and ventral aspects of tail (Goldschmidt and Hendrick, 2002 and Villalobos, 2011). Its occurrence is rare in female and castrated male. Hyperplasia and adenoma of Hepatoid gland is very common in intact male than female dogs as androgens stimulate the development of hepatoid gland leading to proliferative changes (Villalobos, 2011) English Bulldog, Beagle, German Shepherd Siberian Huskies, Samoyeds, Pekingese, and Cocker Spaniels are most commonly affected (Baba and Toi, 2007 and Villalobos, 2011). Present communication reports two cases of Hepatoid gland adenoma in dogs.

A circular growth of 5.5x7x4 cm in diameter size surgically removed from an 8-year-old male Labrador cross breed dog (Case 1; Fig.1) and another growth of 440 gm and size of 13.5x12 cm in diameter from perianal region of adult female non-descript dog (Case 2) were presented to the Department of Veterinary Pathology for histopathological opinion. On cutting, the growth was pale-brown in the first case and grey-white in the second case. The growth was firm in consistency in both the cases. The tissues from multiple sites from both the cases were collected in formalin and processed for paraffin embedded sectioning.

On the basis of histological evaluation, both the tumours were diagnosed as Hepatoid gland adenomas. Goldschmidt and Hendrick (2002) reported that the Hepatoid gland tumours can be solitary or multiple with the size ranging from 0.5 cm to 440 gm.

Fig.1: Case 1--Growth removed from perianal region

Fig.2: Tumour cells with round nucleus and moderate amount of eosinophilic cytoplasm resembling hepatocytes (H & E, 200X)
5 cm in diameter and are pale brown on cut section. The tumour observed in 8 year male Labrador dog was similar to that in the previous studies (Baba and Toi, 2007 and Villalobos, 2011). Microscopic examination of tumor growth in both the cases showed tumour cells arranged in sheets/lobules that were separated by a thin stroma and surrounded by a capsule (Fig.2). The microscopic lesions described in the present investigation corroborate the findings of Goldschmidt, and Hendrick (2002), Trangadiya et al., (2014) and Devi et al. (2012). The tumour growth was removed surgically and the male dog was castrated after diagnosis of the tumour. Villalobos (2011) also reported that up to 95% of male dogs suffering from hepatoid gland tumours respond favourably to castration and regress.

References

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