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A clinical report of cutaneous myxoma in a Shih Tzu dog

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Abstract

A two-year-old neutered Shih Tzu male dog was referred to Urmia University Veterinary Hospital with the owner's complaint of a lump in the lumbar area with dimensions of 20×30×30 mm. In the evaluation of the mass, its consistency was relatively firm and painless, and no sign of inflammation, wound, or bleeding was seen. In the hematology and biochemical analysis, no abnormal findings were observed except mild anemia. According to the favorable clinical condition of the animal and the result of cytology, it was suggested to remove the mass by surgical method. Histopathological examination, which confirmed cutaneous myxoma, showed that the mass had no capsule and consisted of immature fibroblasts with different shapes of nuclei, including spindle, plump, and round, which were loosely arranged in a myxoid stroma. Despite the prominence of breed predisposition in Doberman pinschers and German shepherds, there are limited reports of myxoma in other breeds. This clinical report, which dealt with the occurrence of cutaneous myxoma in a young Shih Tzu dog, showed that this tumor does not necessarily occur in animals over eight years of age, and there is no breed limitation in its occurrence.

Key words: Oncology, Skin tumor, Pet, Neoplasia

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Refrences

Basir, Z., & Tabandeh, M.R. (2022). The effect of alcoholic extract of Nettle leaves, Urtica dioica, on histomorphology and structural alterations during dermal wound healing in rat. *Iranian Veterinary Journal*, 18(3): 18-30.

Erdikmen, D.O., Haşimbegoviç, H., Şennazli, G., & Sönmez, K. (2009). A Cutaneous Myxoma Case in A 12-Year-Old Boxer. *Kafkas Universitesi Veteriner Fakultesi Dergisi*, 15(2): 301-304.

Johnson, M.C., & Myers, A.N. (2017). Cytology of skin neoplasms. *Veterinary Clinics: Small Animal Practice*, 47(1): 85-110.

Kumar, D.R., Soni, M., Singh, R., Choudhary, S., & Asrani, R.K. (2023). Subcutaneous myxoma of the neck in a dog: A case report. *Indian journal of veterinary pathology*, 47(1): 105-106.

Martins, A.L., Canadas-Sousa, A., Mesquita, J.R., Dias-Pereira, P., Amorim, I., & Gärtner, F. (2022). Retrospective study of canine cutaneous tumors submitted to a diagnostic pathology laboratory in Northern Portugal (2014–2020). *Canine Medicine and Genetics*, 9(1): 2.

Schmid, D., Körner, M., & Bley, C.R. (2022). Diagnosis and radiation therapy of an extensive myxoma in the retropharyngeal region infiltrating the cranial cervical vertebral canal in a dog. *Veterinary Radiology & Ultrasound*, 63(3): e24-e28.

Šimundić, M., Petrič, A.D., Pavlin, D., Zemljič, T., Firm, I., Gombač, M., Srečnik, Š., Stojov, M., Šimenc, L., & Švara, T. (2019). Cardiac myxoma in a dog. *Slovenian Veterinary Research*, 56(3): 133–138.

Sudjaidee, P., & Pornsukarom, S. (2020). Canine cutaneous tumors in Sriracha district, Chonburi province, Thailand: a retrospective analysis of relative frequency and risk factors. *Veterinary Integrative Sciences*, 18: 205-215.

Udegbunam, S.O., Udegbunam, R.I., Nnaji, T.O., Ezeasor, C.K., & Anyanwu, M.U. (2015). Unusual occurrence of cutaneous myxoma in a Caucassian dog: a short communication. *Comparative Clinical Pathology*, 24: 945-950.

White, C.R., Hohenhaus, A.E., Kelsey, J., & Procter-Gray, E. (2011). Cutaneous MCTs: associations with spay/neuter status, breed, body size, and phylogenetic cluster. *Journal of the American Animal Hospital Association*, 47(3): 210-216.