FEMORAL NERVE ENTRAPMENT IN A DOG WITH DIFFUSE IDIOPATHIC SKELETAL HYPEROSTOSIS

A Lai¹, J Culvenor¹, C Bailey¹, S Davies²

¹North Shore Veterinary Specialist Centre, Sydney, Australia
²Veterinary Imaging Associates, Sydney, Australia

Objective: To report femoral neuropathy caused by nerve entrapment associated with diffuse idiopathic skeletal hyperostosis (DISH).

Study design: Case report.

Study population: Seven-year-old female spayed Boxer dog.

Results: Entrapment of the right femoral nerve due to DISH caused a femoral nerve deficit and atrophy of muscle groups associated with the affected nerve. A combination of computed tomography and magnetic resonance imaging was performed to provide a diagnosis. Amputation of the right transverse process of the sixth lumbar vertebra at the level of nerve entrapment relieved the neurological abnormality.

Conclusions: Nerve entrapment leading to neuropraxia may occur concurrently with DISH and surgery in this case was successful in restoring function.

Clinical relevance: Peripheral neuropathy from nerve entrapment should be considered in patients with DISH. Surgical amputation of impinging osseous structures may be indicated for relief of femoral neuropathy.