

Head Trauma in a Pomeranian dog; CT & Histopathological Findings

Eulsoo Choi¹, Kyuwoan Cho¹, Heechun Lee², Jiyoung Yhee³, Chiho Yu³,
Junghyang Sur³ and Dongin Jung^{1*}

*Departments of ¹Veterinary Internal Medicine and ²Veterinary Medical Imaging, College of Veterinary Medicine,
Gyeongsang National University*

³Department of Veterinary Pathology, College of Veterinary Medicine, Konkuk University

Signalment: A 18-month-old intact male Pomeranian dog was referred due to neurological signs such as tetraparesis, head tilt, and nystagmus after traumatic injury. Physical and neurological examinations, complete blood count, serum chemical analysis, radiography, and computed tomography (CT) were evaluated.

Results: Based on skull radiographic and brain CT findings, this case was diagnosed as brain injury due to severe head trauma. Although initial management was performed, the present case expired ten hours after diagnosis. On necropsy findings, severe edematous lesions were founded and intracerebral hematoma was also detected at cerebral parenchyma. Histopathological analysis revealed severe neuronal damage and hemorrhage.

Clinical relevance: This case report describes clinical findings, imaging characteristics, necropsy findings and histopathological features of a severe head trauma case.

Key words: head trauma, computed tomography (CT), dog