

Primary Central Nervous System Lymphoma in a Poodle

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Introduction: Primary CNS lymphoma is a result of neoplastic transformation of native lymphocytes within the CNS.

Materials and methods: A 4-year-old intact male poodle dog was presented with tonic-clonic cluster seizure. Physical and neurologic examination, complete blood counts, chemistry profile, radiography, magnetic resonance imaging (MRI), cerebrospinal fluid (CSF) analysis were performed.

Results: Brain MR scanning revealed diffuse hyperintensed lesions on T2-weighted images and those lesions were not enhanced. CSF analysis indicated elevated protein, moderate lymphocytic pleocytosis, markedly elevated LDH. On cytology of CSF, large lymphocytes were detected. Based on these results, CNS lymphoma was strongly suspected. Thus, intrathecal administration of cytosine arabinoside was inducted. However, the patient died one day after chemotherapy.

Clinical relevance: This report describes the clinical and imaging findings of primary CNS lymphoma in a poodle dog.

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