Relapsed lymphoma presenting neurological sings in 4 dogs

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Signalment: A Fox terrier(6-year-old, castrated male), a Afghan Hound(4-year-old, intact female), a Miniature Pinscher(9-year-old, intact female), and a Maltese(3-year-old, intact female) were

referred for vomiting, diarrhea, anorexia, weight loss, swelling of superficial lymph nodes and were

diagnosed as multicentric lymphoma staging IV to V.

Results: LCHOP(L-asparaginase, cyclophosphamide, vincristine, doxorubicin, prednisolne) protocol

are performed. When LCHOP were administered 4 patients, all dogs achieved complete remission.

During the LCHOP chemotherapy, lymphoma had relapsed and tried reinduction with the same

protocol. In the event LCHOP had failed again with presenting neurological signs. Therefore,

DMAC (dexamethasone, actinomycin D, cytosine arabinoside, melphalan), the rescue therapy had

considered and attempted for 2 of 4.

Clinical relevance: In relapsed lymphoma, first line chemotherapy was often failed. When we

have to considering rescue chemotherapy, especially presenting neurological sings considered CNS

type of lymphoma, it is worth attempting protocols including the drugs which go through the

blood-brain barrier.

Key words: DMAC protocol, neurological signs, refractory lymphoma

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