J Vet Clin Vol. 23, No. 1(Suppl.) May (2006)

Primary Lung Tumor in a Shih-Tzu Dog

Chae-Young Lim, Chul Park, Dong-In Jung, Byeong-Teck Kang, Ju-Won Kim, Ha-Jung Kim, Ki-Jin Ko, So-Young Lee, Sue-Kyung Cho, Hyo-Jin Park, Su-Hyun Gu, Ra-Young Heo, Sung-Kuk Han, Hyo-Won Jeon, Ju-Heon Sung, Jung-Hyun Kim, A-Ram Yoon, Byung-Hyun Chung, Ki-Dong Eom, and Hee-Myung Park*

Department of veterinary internal medicine, college of veterinary medicine, Konkuk University

Introduction: Primary lung cancer is a rare tumor in a dog.

Materials and methods: A 7-year-old neutered female Shih-Tzu dog was referred to Konkuk University Veterinary Medical Teaching Hospital (KUVMTH) due to 5 days duration of anorexia, depression, panting, and shivering.

Result: Tachycardia was noted on auscultation and prescapular lymph node enlargement was detected on physical examination. Complete blood count was normal. Serum biochemical abnormalitiesincluding markedly elevated alkaline phosphatase (ALP), mildly elevated creatine kinase (CK), and mild hypoglycemia were noted. A left-sided, large extracardiac mass, right-sided cardiac deviation and pleural effusion were observed on radiographic and computed tomographic examination. Fine needle aspiration biopsy was performed and malignant epithelial tumor was diagnosed. The mass was nonresectable, thus palliative chemotherapy including carboplatin (10mg/kg, IV, q3weeks) was initiated. Pleural effusion was decreased and clinical signs of this dog were mildly improved after chemotherapy. But the mass was more enlarged, and the dog was died 48 days after initial diagnosis. Necropsy findings revealed that the tumor was originated from right cranial lung lobe and metastasis to lung, pleura, and diaphragm.

Clinical Relevance: Canine primary lung cancer is highly malignant. It is not responsive to chemotherapy alone. Therefore, early diagnosis was required for more effective treatment. Although chemotherapy was not effective to tumor itself, it was effective to malignant pleural effusion.

*Corresponding author: parkhee@konkuk.ac.kr