

## **Internal Medicine Cisplatine Treatment for Mesothelioma in a Dog**

Su-Ji Hong, Kyoung-Won Seo, Yun-Chan Jung, Joo-Hyun Jung, Wan-Hee Kim,  
Cheol-Yong Hwang, Dea-Yong Kim, Hwa-Young Youn\*, Chang-Woo Lee

*Veterinary medical teaching hospital, College of veterinary medicine, Seoul National University*

**Introduction:** Mesothelioma is a rare neoplasm arising from lining cells of the peritoneal, pleural and pericardial cavities. Mesothelioma in dog is rare, and understanding the natural history of the tumor is limited by few detailed reports.

**Materials and methods:** A 10-year-old female maltese was presented with severe abdominal distension and dyspnea to Medical Teaching Hospital of Seoul National University. Radiology revealed marked pleural effusion and ascites which were admitted to Clinical Pathology to evaluate cytology. At experimental laparotomy, whitish and firm mass was observed in surface of the abdominal organ and peritoneum. Predominant cells of the pleural fluid were neoplastic mesothelial cells. Histologically, the tumors were revealed as epithelial type mesothelioma. Cisplatin was infused intravenously at 50mg/m<sup>2</sup> initially.

**Results:** Complete resolution of clinical signs were observed after the second shot of cisplatin. No clinical signs were noted for about 100 days.

**Clinical relevance:** The total survival time was 153 days. This is the first report of successful palliative chemotherapy using intravenous cisplatin for canine mesothelioma in Korea. This case suggests that the intravenous cisplatin can be considered in mesothelioma concurrently affecting pleural and peritoneal space as a treatment option.

\*Corresponding author: [hyyoun@snu.ac.kr](mailto:hyyoun@snu.ac.kr)