

Treatment of Congenital Lobar Emphysema using Lung Lobectomy in a Puppy

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Congenital lobar emphysema (CLE) is a rare respiratory disease which is related with bronchial cartilage dysplasia, and causes respiratory distress. A 3-month-old male Pekingese was presented with a cough and severe dyspnea for five days. Thoracic radiographs exhibited that the cranial mediastinum and heart were displaced to the left side due to overinflated right middle and caudal lung lobes. A loss of normal vascular shadows resulting in a hyperlucent appearance could be seen in these lung lobe areas. Diagnosis of lobar emphysema of the right middle and caudal lung lobes was made. The right middle and caudal lung lobes were totally removed via midline sternotomy. In histopathological findings, significantly enlarged and hyperinflated alveoli with loss and displacement of the alveolar were identified. Four weeks after surgery, we detected total resolution of the clinical signs after the surgery. Physical examination revealed no abnormalities. Four on the postoperatively, owner reported no respiratory abnormalities. Early recognition followed by radiographic findings and lung lobectomy should carry a good prognosis.

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