

Two case of performing en block resection of lung cancer involving the great vessels (left atrium and aortic arch)

Eitetsu Koh

Department of Thoracic Surgery, Tokyo Women's Medical University Yachiyo Medical Center, Japan

We report two case of performing en block resection of lung cancer involving the great vessels (left atrium and aortic arch) case1. We report a case of a 67-year-old woman with stage IIIB locally advanced non-small cell lung cancer who had also suffered from hyperthyroidism with persistent atrial fibrillation (AF). Thiamazole provided euthyroid status, but medication failed to resolve AF. A computed tomography (CT) scan revealed a 5 x 5 cm mass in the left hilar region that involved the left atrium and bifurcation of the pulmonary artery. Left pneumonectomy, left atrium partial resection and reconstruction of the bifurcation of the pulmonary artery were performed. In addition, a maze procedure was performed using cardiopulmonary bypass and cardiac arrest. We present the first case report of advanced lung cancer surgery with a maze procedure. Follow-up by CT scan 34 months later did not show any recurrence and her attacks of AF(no medication after surgery) were completely resolved after the operation.case2. We report a case of a 54-year-old man with T4N0M0 non-small cell lung cancer directly invading into the thoracic wall and aortic arch. He underwent neoadjuvant chemotherapy followed by en bloc resection of tumor, lung, chest wall and aortic arch. Perfusion was maintained through femora-femoral cardiopulmonary bypass, with permanent bypass to arch vessels to avoid separate extracorporeal cerebral circulation. Total reconstructions of the chest wall and aortic arch were completed without need for cardiac arrest. Final pathologic diagnosis was squamous cell carcinoma, T4N0M0. The patient was discharged without major complications and has been free of disease for 20 months postoperatively.

Biography

Eitetsu Koh is a surgeon in the Division of Thoracic Surgery of Tokyo women's medical University Yachiyo Medical center and a member of the Department of General Thoracic Surgery in the Graduate School of Chiba University. He graduated from Gifu University in 1994 and received a PhD degree from Chiba University for his research entitled "Correlation between the serum IL-6 (interleukin 6) value and the expression of the tumor organization IL-6 value in non-small cell lung cancer patients" in 2005. He became a board certified Japan surgical society , Japan society for respiratory endoscopy , general thoracic surgery, ICD, Industrial medical doctor and cancer therapy certified recognition certificated doctor.

eitetsuk@gmail.com