A 44-year-old man with persistent cough was referred to our hospital for further evaluation. The chest computed tomography (CT) scan revealed a giant mass of the left upper lobe, 8.7 cm in size, accompanied by mediastinal lymph node swelling (Fig. 1A: axial image; Fig. 1B: coronal image). A biopsy specimen taken during bronchoscopy revealed a non-small cell lung cancer, corresponding to clinical Stage IIIB (cT4N2M0). We administered systemic chemotherapy consisting of six cycles of cisplatin 40 mg/m² (days 1 and 8) and docetaxel 40 mg/m² (days 1 and 8) during 2 weeks followed by 1 week rest and concurrent radiation therapy (60 Gy/30 fr). CT scan after chemoradiation showed a marked reduction in the size of the tumor and mediastinal lymph nodes (Fig. 2A: axial image; Fig. 2B: coronal image) with no sign of new distant metastasis. Thus, we performed left upper lobectomy with combined resection of the pulmonary artery and lymph node dissection.

In the resected specimen, no residual cancer cells were detected pathologically. In this case, preoperative chemoradiotherapy was highly effective and no recurrence has been observed 1 year after surgery.

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