e-Appendix 1. The definitions of some procedure details.

The registration time was defined as the time from LW insertion into the bronchoscope to the completion of matching the actual airway anatomy to the virtual image. The time for finding lesions was defined as the time from completion of registration to removal of the rEBUS device from the bronchoscope, including the process of navigation and the confirmation of rEBUS. The total procedural time was defined as the time from bronchoscope insertion to withdrawal of the glottis. The visibility rate with rEBUS was calculated as the number of cases visible with rEBUS divided by the total number of cases using rEBUS. The usage rate of fluoroscopy was defined as the number of cases for which fluoroscopy was used divided by the total number of cases.