

Appendix 1 Early chest removal criteria

Postoperative time ≤ 6 hr

- No air leak detecting by digital drainage system
- No fluid drainage of 100 mL/h or more
- No ≥ 3 risks combined
 - Male
 - Chronic obstructive pulmonary disease
 - Upper lobe lobectomy or left upper division segmentectomy
 - Severe pleural adhesion
 - BMI < 18.5 kg/m²

Table S1 Multivariate logistic regression analysis in patients with conventional chest-tube-removal

Variables	OR	95% CI	P value
Thoracotomy	8.15	3.55–18.72	0.001
COPD	2.60	1.68–3.62	< 0.001
Steroid and/or immunosuppressant use	2.59	1.35–7.70	0.008

COPD, chronic obstructive pulmonary disease; OR, odds ratio; CI, confidence interval.

Table S2 Multivariate logistic regression analysis of usual chest-tube-removal factors in all anatomical lung resection patients

Variables	OR	95% CI	P value
Thoracotomy	6.21	1.03–14.48	< 0.001
COPD	3.01	1.38–3.82	0.001
Steroid and/or immunosuppressant use	1.93	1.34–2.87	0.01

COPD, chronic obstructive pulmonary disease; OR, odds ratio; CI, confidence interval.