

Textbook outcome and long-term survival after pulmonary resection for non-small cell lung cancer: a retrospective cohort study

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Table S1. Missing data.

Variables	Missing count	Missing percentage
BMI (kg/m ²)	25	3.4%
Smoker	23	3.1%
Smoking pack-years [†] (n = 570)	10	1.7%
Chronic lung disease		
COPD	22	3.0%
Interstitial lung disease	89	12.2%
Baseline laboratory results		
Hemoglobin (g/L)	7	1.0%
Creatinine (μmol/L)	11	1.5%
Albumin (g/L)	25	3.4%
Lung Function Test		
FVC	191	26.1%
FEV ₁	111	15.2%
TLCO	114	15.6%
Predicted FEV ₁ (%)	17	2.3%
Predicted TLCO (%)	113	15.5%
Tumour diameter	107	14.6%
Missing data are presented as n (%). [†] Smoking pack-years were available for 570 of 580 former or current smokers; data were missing for 10 patients. COPD: Chronic obstructive pulmonary disease; FVC: Forced vital capacity; FEV ₁ : Forced expiratory volume in one second; TLCO: transfer capacity of the lung for carbon monoxide.		

Table S2. Extended characteristics of patients with textbook outcomes following pulmonary resection of non-small cell lung cancer (NSCLC).

Variable	Overall (n = 731)	Textbook outcome (n = 163)	No textbook outcome (n = 568)	p-value	Effect size
Basic characteristic					
ASA physical status				0.228	0.076
I	5 (0.7%)	1 (0.6%)	4 (0.7%)		
II	216 (29.5%)	58 (35.6%)	158 (27.8%)		
III	466 (63.8%)	97 (59.5%)	369 (65.0%)		
IV	44 (6.1%)	7 (4.3%)	37 (6.5%)		
Age-adjusted CCI	4 (3–5)	4 (3–5)	4 (3–5)	0.994	<0.001
Lung function test					
FVC (L) (n = 540)	3.2 (2.7–3.9)	3.1 (2.6–3.8)	3.2 (2.7–3.9)	0.631	0.021
FEV ₁ (L) (n = 620)	2.2 (1.8–2.7)	2.2 (1.8–2.7)	2.2 (1.8–2.7)	0.445	0.031
TLCO (mmol/min/kPa) (n = 617)	18.6 (15.3–22.4)	18.4 (14.4–23.0)	18.7 (15.8–22.2)	0.201	0.051
Operative characteristics					
Regional anesthesia				0.074	0.125
Spinal	8 (1.1%)	1 (0.6%)	7 (1.2%)		
Epidural	16 (2.2%)	3 (1.8%)	13 (2.3%)		
Paravertebral	26 (3.6%)	5 (3.1%)	21 (3.7%)		
Erector spinae	14 (1.9%)	4 (2.5%)	10 (1.8%)		
Extrapleural	633 (86.6%)	150 (92.0%)	483 (85.0%)		
Serratus anterior	1 (0.1%)	0 (0%)	1 (0.2%)		
None	33 (4.5%)	0 (0%)	33 (5.8%)		
Surgical approach				0.161	0.120
VATS	325 (44.5%)	83 (50.9%)	242 (42.6%)		
VATS assisted thoracotomy	84 (11.5%)	23 (14.1%)	61 (10.7%)		
VATS-to-thoracotomy	52 (7.0%)	11 (6.8%)	41 (7.2%)		
Thoracotomy	249 (34.1%)	44 (27.0%)	205 (36.1%)		
Hemi-clamshell	6 (0.8%)	0 (0%)	6 (1.1%)		

Hemisternotomy	7 (1%)	2 (1.2%)	5 (0.9%)		
Clamshell	1 (0.1%)	0 (0%)	1 (0.2%)		
Sternotomy	7 (1%)	0 (0%)	7 (1.2%)		
Operation				<0.001*	0.178
Wedge resection	105 (14.4%)	8 (4.9%)	97 (17.1%)		
Segmentectomy	97 (13.3%)	31 (19.0%)	66 (11.6%)		
Lobectomy	495 (67.7%)	121 (74.2%)	374 (65.8%)		
Pneumonectomy	34 (4.6%)	3 (1.9%)	31 (5.5%)		
Data are presented as numbers (%) for categorical variables and as median [IQR: 25 th ; 75th percentile] for continuous variables*p-values < 0.05 are considered statistically significant. CCI: Charlson comorbidity index; FVC: Forced vital capacity; FEV ₁ : Forced expiratory volume in one second; TLCO: Transfer capacity of the lung for carbon monoxide.					

Table S3. Detailed postoperative complications, readmissions, and prolonged hospital stay outcomes stratified by textbook outcome status.

Outcomes	Textbook outcome (n = 163)	No textbook outcome (n = 568)	p-value
Minor complication (CDC < III)	67 (41.1%)	241 (42.4%)	0.784
Highest CDC grade I	26 (16.0%)	101 (17.8%)	0.829
Highest CDC grade II	41 (25.2%)	140 (24.6%)	0.807
Major complications (CDC ≥ III)	0	115 (10.6%)	NA
Highest CDC grade IIIa	0	15 (2.6%)	NA
Highest CDC grade IIIb	0	50 (8.8%)	NA
Highest CDC grade IVa	0	36 (6.3%)	NA
Highest CDC grade IVb	0	7 (1.2%)	NA
Highest CDC grade V	0	7 (1.2%)	NA
Reintervention within 30 days	0	56(9.8%)	NA
ICU/HDU readmission rate	0	68 (12.0%)	NA
Hospital readmission within 30 days	0	62 (10.9%)	NA
Prolonged hospital stays	0	59 (10.3%)	NA
Data are presented as numbers (%). NA: Not applicable (comparison not performed because the event occurred in only one group or was excluded by textbook outcome definition. Patients who achieved a textbook outcome, by definition, had no major complications, reinterventions, ICU/HDU readmissions, hospital readmissions, or prolonged hospital stay. These criteria contribute directly to the composite outcome, and therefore zero events are expected in this group for those categories). *p-values < 0.05 are considered statistically significant. CDC: Clavien–Dindo Classification; ICU: Intensive Care Unit; HDU: High Dependency Unit; NA: Not Applicable.			