Table S1 Univariate analysis of baseline variables in the mixed effects model

Factors	Pain	Coughing	Shortness of breath	Disturbed sleep	Fatigue	Drowsy	Distress	Walking	Activity
Sex	0.50	0.09	0.26	0.33	0.17	0.27	0.23	0.70	0.29
Age	0.24	**0.03**	0.18	**<0.001**	**0.008**	0.70	**0.003**	0.28	0.77
BMI	0.13	0.51	0.27	0.94	**0.045**	0.93	0.24	0.37	0.34
Education level	>0.99	0.42	0.72	0.59	0.53	0.32	0.71	0.80	0.10
Smoking status	0.51	0.28	0.68	0.68	0.28	0.25	0.18	0.27	0.30
Alcohol consumption	0.48	0.58	0.43	**0.03**	0.92	0.17	0.70	0.27	0.19
Family history of cancer	0.71	0.73	**0.04**	0.23	0.46	0.12	0.54	0.71	0.61
Months between onset and treatment	0.93	0.16	0.69	0.37	0.82	0.44	0.34	0.89	0.34
ASA classification	**0.01**	0.07	0.11	**0.003**	**0.003**	0.05	**0.004**	**0.005**	**0.02**
aCCI score	**0.01**	**0.001**	0.07	**<0.001**	**<0.001**	**0.03**	**<0.001**	**0.01**	**0.04**
FEV1	0.09	**0.01**	0.17	**0.03**	**0.03**	0.68	**0.01**	0.09	0.25
FEV1%	0.18	0.054	0.15	0.35	0.53	0.85	0.35	0.31	0.91
MVV	0.08	**0.002**	**0.008**	**<0.001**	**<0.001**	0.06	**<0.001**	**0.009**	**0.044**
MVV%	0.12	**0.03**	**0.03**	**0.008**	**0.001**	0.14	**0.01**	**0.01**	0.08
DLCO SB	0.99	0.22	0.50	0.22	0.46	0.30	0.26	0.24	0.70
DLCO SB%	0.58	0.68	0.87	0.84	0.36	0.95	0.68	0.98	0.08
Nodule diameter	0.90	0.49	0.10	0.26	0.81	0.85	0.44	0.36	0.09
Nodule type	0.05	0.83	**0.01**	0.56	**0.04**	0.96	0.89	0.28	0.55
Nodule location	0.54	0.60	0.99	0.36	0.29	0.29	0.33	0.47	0.52
Type of lymphadenectomy	0.14	0.21	**0.03**	0.59	0.39	0.52	0.32	0.55	0.38
Histological type	0.21	0.26	0.06	0.19	0.16	0.84	0.19	0.77	0.97

Statistically significant values are given in bold (P<0.05). BMI, body mass index; ASA, American Society of Anesthesiologists; aCCI, age-adjusted Charlson comorbidity index; FEV1, forced expiratory volume in 1 second; MVV, maximal voluntary ventilation; DLCO SB, diffusion capacity of carbon monoxide single breath.

Table S2 Distribution of moderate-to-severe symptoms and functional interference

Item	Single lobe surgery, %	Multiple lobe surgery, %	P value
Pain	27.6	29.2	0.33
Coughing	24.8	27.7	0.06
Shortness of breath	26.2	35.5	<0.001
Disturbed sleep	27.0	33.0	<0.001
Fatigue	17.5	18.7	0.40
Drowsy	12.8	13.5	0.56
Distress	7.9	7.0	0.35
Walking	12.7	16.8	0.001
Activity	8.5	13.2	<0.001