

**Table S1** Patient characteristics comparing segmentectomy with lobectomy after propensity score matching

Characteristics	Segmentectomy (n=99)	Lobectomy (n=99)	P value
Age (years)	68.1±9.5	67.5±8.8	0.56
Sex, male (%)	59 (59.6)	53 (53.5)	0.39
BMI (kg/m <sup>2</sup> )	23.0±3.1	22.4±4.1	0.07
Smoking index (pack-year)	488±555	432±550	0.38
preFVC (L)	2.98±0.72	2.95±0.68	0.96
preFEV1 (L)	2.21±0.58	2.20±0.55	0.91
FEV1/FVC (%)	74.2±10.5	74.8±9.1	0.57
Tumor size on CT (mm)	18.5±4.8	18.3±5.0	0.96
Solid size on CT (mm)	13.7±5.9	13.7±6.3	0.76
CTR (%)	75.7±27.8	76.1±27.7	0.84
c-T factor			0.42
T1mi	10 (10.1)	7 (7.1)	
T1a	22 (22.2)	32 (32.3)	
T1b	51 (51.5)	45 (45.5)	
T1c	16 (16.2)	15 (15.2)	
Location of primary tumor			<0.001
Right upper lobe	13 (13.1)	39 (39.4)	
Right middle lobe	0	5 (5.1)	
Right lower lobe	16 (16.2)	23 (23.2)	
Left upper lobe	51 (51.5)	13 (13.1)	
Left lower lobe	19 (19.2)	19 (19.2)	
Pathology			0.70
Adenocarcinoma	82 (82.8)	86 (86.9)	
Squamous cell carcinoma	10 (10.1)	7 (7.1)	
Others	7 (7.1)	6 (6.1)	
p-N factor			0.30
N0	95 (96.0)	90 (90.9)	
N1	2 (2.0)	6 (6.1)	
N2	2 (2.0)	3 (3.0)	
p-Stage			0.12
IA	80 (80.8)	82 (82.8)	
IB	14 (14.1)	6 (6.1)	
II	3 (3.0)	8 (8.1)	
III-	2 (2.0)	3 (3.0)	

Data were expressed as mean ± standard deviation or n (%). BMI, body mass index; FVC, forced vital capacity; FEV1, forced expiratory volume in one second; CT, computed tomography; CTR, consolidation to tumor ratio; p-N, pathological N; p-Stage, pathological stage.

**Table S2** Comparison of the radiologic features between the patients with loco-regional relapse and those with no evidence of relapse

All*	With loco-regional relapse (n=39)	No relapse (n=328)	P value
Tumor diameter (mm)	19 (9-30)	20 (6-30)	0.98
Solid diameter (mm)	18 (6-30)	15 (2-30)	0.03
CTR (%)	100 (37.5-100)	100 (11.8-100)	0.003

\*, patients with distant relapse with or without loco-regional relapse were excluded. Values are expressed with the median and range. CTR, consolidation to tumor ratio.

**Table S3** Comparison of the radiologic features between the patients with loco-regional relapse and those with no evidence of relapse after segmentectomy

Segmentectomy*	With loco-regional relapse (n=16)	No relapse (n=93)	P value
Tumor diameter (mm)	18.5 (9-25)	18 (8-30)	0.79
Solid diameter (mm)	15 (6-25)	12 (3-27)	0.07
CTR (%)	100 (37.5-100)	66.7 (13.6-100)	0.01

\*, patients with distant relapse with or without loco-regional relapse were excluded. Values are expressed with the median and range. CTR, consolidation to tumor ratio.

**Table S4** Comparison of the radiologic features between the patients with loco-regional relapse and those with no evidence of relapse after lobectomy

Lobectomy*	With loco-regional relapse (n=23)	No relapse (n=235)	P value
Tumor diameter (mm)	22 (10-30)	21 (6-30)	0.46
Solid diameter (mm)	20 (9-30)	16 (8-30)	0.04
CTR (%)	100 (51.4-100)	64.3 (11.8-100)	0.02

\*, patients with distant relapse with or without loco-regional relapse were excluded. Values are expressed with the median and range. CTR, consolidation to tumor ratio.