

S1 Table. Univariable and multivariable analyses for risk factors associated with CPI after definitive, neoadjuvant, or adjuvant radiotherapy for lung cancer

Variable	CPI (-) (n=1,490)	CPI (+) (n=57)	Univariable		Multivariable	
			HR (95% CI)	p-value	HR (95% CI)	p-value
Age (yr)	63 (56-70)	65 (59-70)	1.02 (1.00-1.05)	0.100	-	-
Male sex	1,155 (77.5)	48 (84.2)	1.92 (0.94-3.92)	0.072	-	-
BMI (kg/m ²)	23.5 (21.5-25.4)	22.7 (20.8-25.3)	0.93 (0.85-1.01)	0.085	0.89 (0.81-0.98)	0.013
Former or current smoker	1,153 (77.7)	47 (82.5)	1.71 (0.87-3.39)	0.122	-	-
COPD/asthma	193 (13.0)	13 (22.8)	2.01 (1.08-3.73)	0.027	-	-
Interstitial lung disease	53 (3.6)	5 (8.8)	4.63 (1.84-11.65)	0.001	4.61 (1.75-12.15)	0.002
Previous PTB	20 (1.3)	7 (12.3)	8.22 (3.72-18.17)	<0.001	6.80 (2.92-15.85)	< 0.001
Diabetes mellitus	277 (18.6)	18 (31.6)	2.11 (1.21-3.69)	0.009	1.68 (0.95-2.98)	0.073
Chronic heart disease	284 (19.1)	20 (35.1)	2.51 (1.46-4.33)	0.001	1.87 (1.05-3.30)	0.032
Cerebrovascular disease	115 (7.7)	4 (7.0)	0.89 (0.32-2.46)	0.819	-	-
Chronic liver disease	54 (3.6)	2 (3.5)	1.05 (0.26-4.29)	0.949	-	-
Chronic kidney disease	45 (3.0)	1 (1.8)	0.52 (0.07-3.78)	0.521	-	-
Total dose (Gy)	52.5 (44.0-60.0)	50.0 (44.0-60.0)	0.98 (0.95-1.00)	0.078	-	-
BED ₁₀ (Gy)	63.5 (52.8-79.2)	60.0 (52.8-78.0)	0.99 (0.98-1.01)	0.408	-	-
CTV (cm ³) ^a	162 (87-271)	187 (113-270)	1.01 (1.00-1.02)	0.137	1.02 (1.00-1.03)	0.023
Reirradiation	239 (16.0)	12 (21.1)	1.16 (0.61-2.19)	0.649	-	-
Concurrent chemoradiation	1,149 (77.1)	45 (78.9)	0.91 (0.48-1.72)	0.773	-	-
History of lung cancer surgery	689 (46.2)	34 (59.6)	1.20 (0.71-2.05)	0.496	1.83 (1.04-3.24)	0.037
History of radiation pneumonitis	197 (13.2)	16 (28.1)	2.85 (1.60-5.09)	< 0.001	2.56 (1.37-4.80)	0.003
Systemic corticosteroid user	1,026 (68.9)	44 (77.2)	1.50 (0.81-2.78)	0.200	-	-
Inhaled corticosteroids user	164 (11.0)	20 (35.1)	3.97 (2.31-6.85)	< 0.001	3.15 (1.78-5.57)	< 0.001

Values are presented as the median (interquartile range) or number (%). BED₁₀, biologically effective dose with an α/β ratio of 10; BMI, body mass index; CI, confidence interval; COPD, chronic obstructive pulmonary disease; CPI, chronic pulmonary infection; CTV, clinical target volume; HR, hazard ratio; PTB, pulmonary tuberculosis. ^{a)}A 10 cm³ was used as the unit for CTV in the univariable and multivariable analyses.