

**S3 Table.** Univariable and multivariable analyses for risk factors associated with CPI after definitive radiotherapy for lung cancer

Variable <sup>a)</sup>	CPI (-) (n=826)	CPI (+) (n=23)	Univariable		Multivariable	
			HR (95% CI)	p-value	HR (95% CI)	p-value
Age (yr)	66 (58-73)	67 (60-72)	1.01 (0.98-1.05)	0.466	-	-
Male sex	669 (81.0)	19 (82.6)	1.22 (0.42-3.59)	0.717	-	-
BMI (kg/m <sup>2</sup> )	23.3 (21.2-25.3)	23.2 (20.4-25.4)	0.93 (0.81-1.07)	0.322	-	-
Former or current smoker	677 (82.4)	19 (82.6)	1.16 (0.39-3.41)	0.789	-	-
COPD/asthma	118 (14.3)	7 (30.4)	2.59 (1.06-6.31)	0.036	-	-
Interstitial lung disease	39 (4.7)	2 (8.7)	2.89 (0.67-12.38)	0.153	-	-
Previous PTB	17 (2.1)	3 (13.0)	5.06 (1.50-17.07)	0.009	4.11 (1.17-14.40)	0.027
Diabetes mellitus	162 (19.6)	5 (21.7)	1.19 (0.44-3.21)	0.730	-	-
Chronic heart disease	153 (18.5)	8 (34.8)	2.46 (1.04-5.81)	0.040	-	-
Cerebrovascular disease	63 (7.6)	2 (8.7)	1.09 (0.26-4.65)	0.909	-	-
Total dose (Gy)	60.0 (52.5-66.0)	60.0 (52.5-66.0)	0.99 (0.94-1.04)	0.639	-	-
BED <sub>10</sub> (Gy)	79.2 (63.5-79.2)	78.0 (63.5-79.2)	1.00 (0.99-1.02)	0.758	-	-
CTV (cm <sup>3</sup> ) <sup>b)</sup>	196 (110-315)	191 (90-249)	0.99 (0.96-1.02)	0.431	-	-
Concurrent chemoradiation	547 (66.2)	13 (56.5)	0.58 (0.25-1.32)	0.193	-	-
History of lung cancer surgery	60 (7.3)	1 (4.3)	0.41 (0.06-3.08)	0.389	-	-
History of radiation pneumonitis	156 (18.9)	10 (43.5)	3.49 (1.53-7.96)	0.003	3.60 (1.57-8.28)	0.003
Systemic corticosteroid user	557 (67.4)	17 (73.9)	1.43 (0.56-3.64)	0.450	-	-
Inhaled corticosteroids user	91 (11.0)	9 (39.1)	5.08 (2.19-11.79)	<0.001	4.39 (1.85-10.39)	0.001

Values are presented as the median (interquartile range) or number (%). BED<sub>10</sub>, biologically effective dose with an  $\alpha/\beta$  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. <sup>a)</sup>No CPI was developed in patients with chronic liver disease, chronic kidney disease, or a history of reirradiation, <sup>b)</sup>A 10 cm<sup>3</sup> was used as the unit for CTV in the univariable and multivariable analyses.