Supplementary

Table S1 The regimen of chemo-immunotherapy

Table ST The regimen of chemo-initiatiouterapy					
Systematic treatment	N (%)				
Platinum-based chemotherapy	78 (100.0)				
Immunotherapy					
Anti-PD-1	32 (41.0)				
Anti-PD-L1	44 (56.4)				
Anti-PD-1 + anti-PD-L1	2 (2.6)				
Immune maintenance therapy					
No	36 (46.2)				
Anti-PD-1	14 (17.9)				
Anti-PD-L1	27 (34.6)				
Anti-PD-1 + anti-PD-L1	1 (1.3)				

PD-1, programmed death-1; PD-L1, programmed death ligand-1.

Items -	IPFS	IPFS		dPFS	
	HR (95% CI)	P value	HR (95% CI)	P value	
Age (≥65 <i>vs</i> . <65 years)	-	_	_	_	
Gender (female vs. male)	-	-	_	-	
Smoking status (yes vs. no)	-	-	_	-	
ECOG-PS (>1 <i>vs.</i> ≤1)	-	-	_	-	
Size of primary lesion (≥5 vs. <5 cm)	-	-	_	-	
Mediastinal lymph node metastasis (yes vs. no)	-	-	_	-	
Primary brain metastasis (yes <i>vs.</i> no)	-	-	_	-	
Primary liver metastasis (yes vs. no)	2.74 (1.10–6.83)	0.031	_	0.268	
Number of initial distant metastases (≥3 <i>vs.</i> <3)	-	-	1.92 (1.05–3.50)	0.034	
Superior vena cava syndrome (yes <i>vs</i> . no)	-	-	_	-	
Pleural effusion (yes <i>vs.</i> no)	-	-	-	-	
Pericardial effusion (yes vs. no)	-	-	_	-	
ICIs					
Anti-PD-1 drugs (yes vs. no)	-	-	_	-	
Anti-PD-L1 drugs (yes vs. no)	-	-	-	-	
PCI (yes vs. no)	-	-	-	-	
Extrathoracic radiotherapy (yes vs. no)	-	-	-	-	
Consolidative TRT (yes vs. no)	0.23 (0.11–0.48)	0.000	-	-	
Timing of TRT (lately vs. early)	-	-	_	-	
Dose of TRT					
Conventional radiotherapy (yes vs. no)	_	-	-	-	
Hyperfractionated radiotherapy (yes vs. no)	-	-	-	-	
Hypofractionated radiotherapy (yes vs. no)	-	-	-	-	
Response to systematic before TRT (CR/PR vs. SD/PD)	-	-	_	_	

Table S2 Multivariate analysis of IPFS and dPFS for patients treated with chemo-immunotherapy and TRT

IPFS, local progression-free survival; dPFS, distant progression-free survival; TRT, thoracic radiotherapy; HR, hazard ratio; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ICIs, immune checkpoint inhibitors; PD-1, programmed death-1; PD-L1, programmed death ligand-1; PCI, prophylactic cranial irradiation; CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease.

lterro	Univariate analysis		Multivariate analysis	
Items	HR (95% CI)	P value	HR (95% CI)	P value
Age (≥65 <i>vs.</i> <65 years)	0.55 (0.30–1.04)	0.064	_	_
Gender (female vs. male)	0.39 (0.12–1.25)	0.114	-	-
Smoking status (yes vs. no)	0.85 (0.46–1.58)	0.614	-	-
ECOG-PS (>1 vs. ≤1)	1.01 (0.27–4.55)	0.897	-	-
Size of primary lesion (≥5 <i>v</i> s. <5 cm)	1.56 (0.77–3.13)	0.215	-	-
Mediastinal lymph node metastasis (yes vs. no)	2.58 (1.01–6.54)	0.047	-	0.061
Primary brain metastasis (yes <i>vs.</i> no)	0.73 (0.33–1.63)	0.444	-	-
Primary liver metastasis (yes vs. no)	4.55 (2.08–9.96)	0.000	4.12 (1.89–8.99)	0.000
Number of initial distant metastases (≥3 <i>vs.</i> <3)	1.73 (0.95–3.13)	0.071	-	-
Superior vena cava syndrome (yes vs. no)	1.34 (0.62–2.87)	0.458	-	-
Pleural effusion (yes <i>vs.</i> no)	1.40 (0.78–2.50)	0.261	-	-
Pericardial effusion (yes vs. no)	1.58 (0.80–3.12)	0.184	-	-
ICIs				
Anti-PD-1 drugs (yes vs. no)	0.88 (0.49–1.58)	0.658	-	-
Anti-PD-L1 drugs (yes vs. no)	1.07 (0.60–1.91)	0.823	-	-
PCI (yes vs. no)	1.46 (0.35–6.06)	0.602	-	-
Extrathoracic radiotherapy (yes vs. no)	1.29 (0.72–2.30)	0.394	-	-
Consolidative TRT (yes vs. no)	0.40 (0.21–0.74)	0.041	0.43 (0.23–0.80)	0.008
Timing of TRT (lately vs. early)	0.66 (0.37–1.18)	0.162	-	-
Dose of TRT			-	-
Conventional radiotherapy (yes vs. no)	0.99 (0.43–2.73)	0.980	-	-
Hyperfractionated radiotherapy (yes vs. no)	0.64 (0.26–1.53)	0.313	-	-
Hypofractionated radiotherapy (yes vs. no)	1.37 (0.69–2.72)	0.369	-	-
Response to systematic before TRT (CR/PR vs. SD/PD)	1.24 (0.68–2.27)	0.484	-	_

Table S3 Univariate and multivariate analysis of overall survival for patients treated with chemo-immunotherapy and TRT

TRT, thoracic radiotherapy; HR, hazard ratio; Cl, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ICIs, immune checkpoint inhibitors; PD-1, programmed death-1; PD-L1, programmed death ligand-1; PCI, prophylactic cranial irradiation; CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease.