

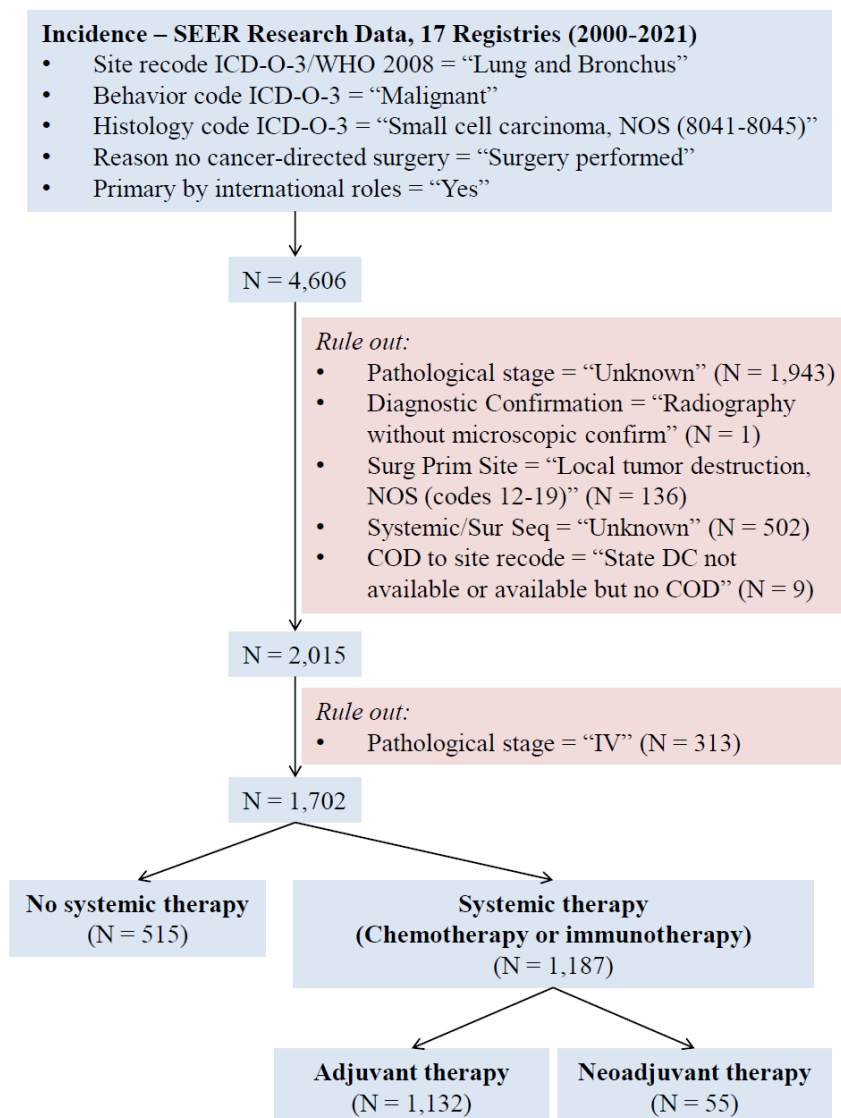


Figure S1 Flow diagram of the study.

Table S1 Univariate and multivariate Cox proportional hazard regression for overall survival and competing-risk regression for lung cancer specific survival in surgical resected stage I SCLC patients

Variables	All	HR (95% CI, P value) for OS		SHR (95% CI, P value) for LCSS	
		Univariate	Multivariate	Univariate	Multivariate
Therapy					
Adjuvant	513 (97.3)				
Neoadjuvant	14 (2.7)	1.00 (0.47–2.12, >0.99)	1.24 (0.58–2.64, 0.58)	1.71 (1.01–2.91, 0.048)	1.99 (1.18–3.37, 0.01)
Age, years, mean ± SD	67.2±7.6	1.06 (1.04–1.07, <0.001)	1.06 (1.04–1.08, <0.001)	1.04 (1.01–1.06, <0.001)	1.04 (1.02–1.06, <0.001)
Sex					
Female	298 (56.5)				
Male	229 (43.5)	1.16 (0.90–1.49, 0.25)		1.05 (0.77–1.42, 0.76)	
Race					
White	487 (92.4)				
Black	21 (4.0)	0.52 (0.22–1.27, 0.15)		0.87 (0.37–2.05, 0.75)	
Others	19 (3.6)	0.88 (0.39–1.97, 0.75)		1.39 (0.65–3, 0.40)	
Grade					
G1, well	2 (0.4)				
G2, moderately	8 (1.5)	3.10 (0.36–26.57, 0.30)		2.06 (0.73–5.82, 0.17)	
G3, poorly	173 (32.8)	1.37 (0.19–9.88, 0.75)		0.82 (0.59–1.14, 0.24)	
G4, undifferentiated	153 (29.0)	1.79 (0.25–12.89, 0.56)		1.09 (0.79–1.5, 0.62)	
Unknown	191 (36.2)	1.80 (0.25–12.92, 0.56)		1.06 (0.77–1.45, 0.73)	

Continuous variables are reported as mean ± standard deviation; Categorical variables are reported as number (%); statistically significant P values are indicated by boldface. SD, standard deviation; HR, hazard ratio; OS, overall survival; SHR, subdistribution hazard ratio; LCSS, lung cancer specific survival.

Table S2 Univariate and multivariate Cox proportional hazard regression for overall survival and competing-risk regression for lung cancer specific survival in surgical resected stage II SCLC patients

Variables	All	HR (95% CI, P value) for OS		SHR (95% CI, P value) for LCSS	
		Univariate	Multivariate	Univariate	Multivariate
Therapy					
Adjuvant	289 (95.4)				
Neoadjuvant	14 (4.6)	0.71 (0.33–1.51, 0.37)	0.74 (0.35–1.57, 0.43)	1.00 (0.52–1.93, 0.99)	1.07 (0.54–2.11, 0.86)
Age, years	66.5±7.9	1.02 (1.00–1.04, 0.02)	1.02 (1.00–1.04, 0.02)	1.03 (1–1.05, 0.02)	1.03 (1.00–1.05, 0.02)
Sex					
Female	167 (55.1)				
Male	136 (44.9)	1.25 (0.93–1.67, 0.14)		1.23 (0.90–1.7, 0.20)	
Race					
White	283 (93.4)				
Black	11 (3.6)	0.59 (0.24–1.44, 0.25)		0.64 (0.24–1.66, 0.36)	
Others	9 (3.0)	0.67 (0.25–1.80, 0.42)		0.64 (0.24–1.66, 0.36)	
Grade					
G1, well	3 (1.0)				
G2, moderately	9 (3.0)	0.62 (0.11–3.40, 0.58)		0.61 (0.23–1.61, 0.32)	
G3, poorly	99 (32.7)	1.10 (0.27–4.49, 0.90)		1.09 (0.78–1.52, 0.61)	
G4, undifferentiated	77 (25.4)	1.09 (0.26–4.47, 0.91)		1.11 (0.76–1.62, 0.59)	
Unknown	115 (38.0)	0.86 (0.21–3.51, 0.83)		0.88 (0.63–1.23, 0.44)	

Continuous variables are reported as mean ± standard deviation; Categorical variables are reported as number (%); statistically significant P values are indicated by boldface. SD, standard deviation; HR, hazard ratio; OS, overall survival; SHR, subdistribution hazard ratio; LCSS, lung cancer specific survival.

Table S3 Univariate and multivariate Cox proportional hazard regression for overall survival and competing-risk regression for lung cancer specific survival in surgical resected stage III SCLC patients

Variables	All	HR (95% CI, P value) for OS		SHR (95% CI, P value) for LCSS	
		Univariate	Multivariate	Univariate	Multivariate
Therapy					
Adjuvant	330 (92.4)				
Neoadjuvant	27 (7.6)	0.62 (0.38–1.02, 0.059)	0.61 (0.37–1.00, 0.048)	0.60 (0.35–1.01, 0.056)	0.60 (0.35–1.01, 0.056)
Age, years	66.6±9.1	1.02 (1.01–1.03, 0.005)	1.02 (1.01–1.03, 0.004)	1.01 (0.99–1.02, 0.40)	
Sex					
Female	189 (52.9)				
Male	189 (52.9)	1.17 (0.92–1.49, 0.20)		1.23 (0.96–1.6, 0.11)	
Race					
White	320 (89.6)				
Black	24 (6.7)	1.03 (0.64–1.64, 0.91)		0.78 (0.45–1.36, 0.39)	
Others	13 (3.6)	0.98 (0.52–1.85, 0.96)		1.19 (0.63–2.24, 0.59)	
Grade					
G1, well	1 (0.3)				
G2, moderately	13 (3.6)	0.83 (0.11–6.49, 0.86)		0.83 (0.46–1.51, 0.54)	
G3, poorly	106 (29.7)	1.12 (0.16–8.03, 0.91)		0.98 (0.74–1.3, 0.89)	
G4, undifferentiated	70 (19.6)	1.02 (0.14–7.41, 0.98)		1.02 (0.74–1.4, 0.91)	
Unknown	167 (46.8)	1.11 (0.16–7.98, 0.92)		1.03 (0.80–1.34, 0.81)	

Continuous variables are reported as mean ± standard deviation; Categorical variables are reported as number (%); statistically significant P values are indicated by boldface. SD, standard deviation; HR, hazard ratio; OS, overall survival; SHR, subdistribution hazard ratio; LCSS, lung cancer specific survival.