

Table S1 Features of patients who received chemotherapy and survived 1 year with odds ratios for 1 year survival in all stages

Factor	Number surviving 1 year (n=695)	% surviving 1 year from those receiving chemotherapy	OR 1-year survival	95% CI	Adjusted OR 1-year survival	95% CI	P value (LR test)
Sex							
Female	404	45.3	1		1		
Male	291	33.5	0.61	0.50–0.73	0.61	0.48–0.76	<0.01
Age group							
<60	150	45.2	0.79	0.62–1.01	1	0.74–1.35	
60–79	498	39.4	1		1		
≥80	47	28.3	0.48	0.32–0.72	0.74	0.45–1.21	0.53 [‡]
Townsend quintile							
Least deprived- 1	97	44.7	1		1		
2	108	37.2	0.73	0.51–1.05	0.8	0.52–1.22	
3	142	39.1	0.79	0.57–1.12	1.02	0.68–1.53	
4	185	41.3	0.87	0.63–1.21	1.01	0.68–1.50	
Most deprived- 5	163	36.8	0.72	0.52–1.00	0.88	0.59–1.31	0.61
Performance status							
0	196	54.9	1		1	1	
1	307	44.2	0.65	0.50–0.84	0.71	0.53–0.97	
2	119	28.9	0.33	0.25–0.45	0.44	0.31–0.63	
3	24	16.7	0.16	0.10–0.27	0.29	0.17–0.51	
4	1	7.7	0.07	0.01–0.53	0.05	0.00–0.63	
Missing	48	34.3	0.43	0.29–0.64	0.46	0.29–0.75	<0.01
Charlson comorbidity index							
0	240	45.4	1		1		
1	193	52.6	1.34	1.02–1.74	1.42	1.03–1.96	
2–3	128	37	0.71	0.54–0.93	0.84	0.60–1.17	
≥4	134	25.8	0.42	0.32–0.54	0.75	0.55–1.01	<0.01
Stage							
Limited	381	60.7	1		1		
Extensive	286	26.2	0.23	0.19–0.29	0.3	0.23–0.39	
Missing	28	66.7	1.3	0.67–2.51	1.54	0.72–3.28	<0.01
Chemotherapy							
Carboplatin+ etoposide	530	38.4	1		1		
Cisplatin + etoposide	133	67.9	3.39	2.46–4.66	1.48	0.99–2.21	
CAV	1	20	0.4	0.04–3.60	0.64	0.05–8.59	
Other	11	34.4	0.84	0.40–1.76	1.4	0.61–3.24	
Single platinum	14	11.1	0.2	0.11–0.35	0.42	0.23–0.79	
Missing	6	27.3	0.6	0.23–1.55	1.06	0.33–3.41	0.02
Chemotherapy cycles received							
More than planned (mean 5 cycles)	16	53.3	0.89	0.41–1.93	0.9	0.36–2.27	
Less than planned (mean 3 cycles)	275	32	0.37	0.27–0.50	0.47	0.32–0.68	
4 planned and received	115	56.1	1		1		
6 planned and received	203	52.5	0.86	0.61–1.21	1.22	0.82–1.83	
Received planned amount excluding 4 & 6 cycles (mean 2 cycles)	27	28.4	0.31	0.18–0.52	0.36	0.18–0.72	
Missing planned cycles	59	32.1	0.37	0.24–0.56	0.45	0.28–0.74	<0.01
Received radiotherapy							
Did not receive radiotherapy	269	27.8	1		1		
Radical (≥40 Gy)	233	77.4	8.91	6.58–12.09	2.94	2.04–4.25	
Palliative (<40 Gy)	193	39.3	1.69	1.34–2.12	1.43	1.10–1.87	<0.01
Received PCI							
No	469	33.6	1		1		
Yes	226	61.9	3.21	2.53–4.08	2.08	1.54–2.79	<0.01

‡: LR test for trend. Adjusted OR for all other factors in table.

Table S2 Sensitivity analysis of 1-year survival with different radiotherapy thresholds for limited stage SCLC

Radiotherapy received	Number surviving 1 year	Proportion surviving 1 year from all who received chemotherapy	OR 1-year survival	95% CI	Adjusted OR 1-year survival	95%CI	P value likelihood ratio test
Received radiotherapy							
Did not receive radiotherapy	119	44.2	1	–	1	–	<0.01
Radical (≥ 40 Gy)	197	81.4	5.52	3.69–8.26	3.32	2.07–5.31	
Palliative (<40 Gy)	65	55.6	1.58	1.02–2.44	1.53	0.94–2.49	
Received radiotherapy							
Did not receive radiotherapy	381	44.2	1	–	1	–	<0.01
Radical (≥ 30 Gy)	236	77.6	4.37	3.15–6.28	2.83	1.84–4.34	
Palliative (<30 Gy)	26	47.3	1.13	0.63–2.02	1.31	0.69–2.47	

Odds ratios are adjusted for sex, age, social deprivation, PS, comorbidity, receipt of PCI, chemotherapy regimen and cycles.

Table S3 Characteristics of individuals receiving chemotherapy who had limited stage

Factor	Received 4 cycles		Received 6 cycles		P value for differences between treatment groups (chi ²)
	Number	Percentage	Number	Percentage	
Sex					
Male	40	44	57	48	0.53
Female	51	56	61	52	
Age (median & IQR)	69 (60-75)		67 (60-73)		0.60 (t test)
Performance status					
0	29	32	30	25	0.57
1	42	46	52	44	
2	13	14	20	17	
3	1	1	4	3	
Missing	6	7	12	10	
Charlson comorbidity score					
0	35	38	30	25	0.12
1	26	29	50	42	
2-3	21	23	24	20	
4	9	10	14	12	
Socioeconomic status					
1-Least deprived	14	15	18	15	0.89
2	15	16	20	17	
3	16	18	21	18	
4	25	27	26	22	
5-Most deprived	21	23	33	28	

Table S4 Characteristics of individuals receiving chemotherapy who had extensive stage

Factor	Received 4 cycles		Received 6 cycles		P value for differences between treatment groups (chi ²)
	Number	Percentage	Number	Percentage	
Sex					
Male	49	45	137	52	0.21
Female	59	55	124	48	
Age (median + IQR)	68 (62-74)		68 (61-73)		0.24 (t test)
Performance status					
0	12	11	55	21	0.03
1	41	38	105	40	
2	38	35	61	23	
3	10	9	14	5	
Missing	7	6	26	10	
Charlson comorbidity index					
0	38	35	87	33	0.94
1	20	19	46	18	
2-3	16	15	37	14	
≥4	34	31	91	35	
Socioeconomic status					
1-Least deprived	17	16	30	11	0.624
2	21	19	47	18	
3	24	22	59	23	
4	21	19	68	26	
5-Most deprived	25	23	57	22	

Table S5 Characteristics of individuals receiving PCI who had extensive stage

Factors	Did not receive PCI		Received PCI		P values for differences between treatment groups (chi ²)
	Number	Percentage	Number	Percentage	
Sex					
Male	455	52	107	50	0.68
Female	423	48	106	50	
Age (median & IQR)	69 (62-75)		64 (59-70)		<0.01 (t test)
Performance status					
0	143	16	49	23	<0.01
1	320	36	101	47	
2	238	27	39	18	
3	101	12	13	6	
Missing	76	9	11	5	
Charlson score					
0	250	28	75	35	0.08
1	147	17	38	18	
2-3	152	17	24	11	
≥4	329	37	76	36	
Socioeconomic status					
Least deprived-1	95	11	26	12	0.95
2	147	17	35	16	
3	190	22	49	23	
4	218	25	49	23	
Most deprived-5	228	26	54	25	

Table S6 Characteristics of individuals receiving radiotherapy who had extensive stage

Factors	Received palliative dose (<40 Gy)		Received consolidative dose (≥40 Gy)		P value for difference between treatment groups (chi ²)	Received palliative dose (<30 Gy)		Received consolidative dose (≥30 Gy)		P value for difference between treatment groups (chi ²)
	Number	%	Number	%		Number	%	Number	%	
Sex										
Male	204	55	18	44	0.16	104	65	118	47	<0.01
Female	164	45	23	56		55	35	132	53	
Age (median and IQR)	67 (61-72)		65 (60-73)		0.84 (t test)	68 (62-74)		65 (60-72)		0.02 (t test)
Performance status										
0	78	21	10	24	0.15	24	15	64	26	0.07
1	154	42	19	46		71	45	102	41	
2	78	21	5	12		32	20	51	20	
3	33	9	1	2		18	11	16	6	
Missing	25	7	6	15		14	9	17	7	
Charlson comorbidity score										
0	129	35	13	32	<0.01	52	33	90	36	<0.03
1	61	17	15	37		25	16	51	20	
2-3	44	12	9	22		15	9	38	15	
≥4	134	36	4	10		67	42	71	28	
Socioeconomic status										
Least deprived-1	37	10	4	10	0.28	15	9	26	10	1.00
2	58	16	6	15		25	16	39	16	
3	72	20	13	32		35	22	50	20	
4	99	27	12	29		44	28	67	27	
Most deprived-5	102	28	6	15		40	25	68	27	