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Supplementary Table A: Odds ratios (95% CI) of receiving treatment from multivariable logistic regression models with imputed data by (a) surgical resection and (b) radical radiotherapy

a)	Multivariable model*		
	OR	95% CI	
<b>Travel time to thoracic centre</b>			
<=15min	1		
15-25min	1.04	0.97	1.12
25-35min	0.96	0.89	1.04
35-55 min	0.86	0.80	0.93
>55 min	0.83	0.76	0.89
NK	0.60	0.43	0.85
$\chi^2$	13.66		
p-trend	0.0002		
<b>Age</b>			
<55 years	1		
55-59 years	0.99	0.88	1.12
60-64 years	1.00	0.90	1.12
65-69 years	1.01	0.91	1.12
70-74 years	0.94	0.84	1.04
75-79 years	0.75	0.67	0.83
80-84 years	0.39	0.34	0.43
85+ years	0.13	0.11	0.15
$\chi^2$	673.13		
p-trend	<0.0001		
<b>Sex</b>			
Male	1		
Female	1.08	1.03	1.14
$\chi^2$	10.07		
p-heterogeneity	0.0015		
<b>Diagnosis year</b>			
2009	1		
2010	1.16	1.06	1.28
2011	1.15	1.05	1.26
2012	1.12	1.02	1.22
2013	1.11	1.01	1.21
$\chi^2$	1.23		
p-trend	0.2681		
<b>Socioeconomic deprivation quintile</b>			
1 (most affluent)	1		
2	1.02	0.94	1.11
3	0.92	0.84	1.00
4	0.88	0.81	0.96
5 (most deprived)	0.90	0.83	0.98
$\chi^2$	14.17		
p-trend	0.0002		

b)	Multivariable model*		
	OR	95% CI	
<b>Travel time to radiotherapy centre</b>			
<=10min	1		
10-20min	0.99	0.92	1.06
20-30min	0.97	0.90	1.04
30-40min	1.00	0.93	1.08
>40min	0.91	0.84	0.98
NK	0.98	0.72	1.34
$\chi^2$	0.08		
p-trend	0.7815		
<b>Age</b>			
<55 years	1		
55-59 years	0.97	0.86	1.09
60-64 years	0.92	0.83	1.03
65-69 years	0.88	0.80	0.98
70-74 years	0.86	0.77	0.95
75-79 years	0.83	0.75	0.92
80-84 years	0.81	0.73	0.91
85+ years	0.56	0.49	0.63
$\chi^2$	73.51		
p-trend	<0.0001		
<b>Sex</b>			
Male	1		
Female	0.95	0.91	1.00
$\chi^2$	4.06		
p-heterogeneity	0.0439		
<b>Diagnosis year</b>			
2009	1		
2010	1.15	1.06	1.25
2011	1.22	1.13	1.32
2012	1.32	1.22	1.42
2013	1.45	1.34	1.57
$\chi^2$	104.06		
p-trend	<0.0001		
<b>Socioeconomic deprivation quintile</b>			
1 (most affluent)	1		
2	0.97	0.90	1.06
3	1.05	0.97	1.13
4	1.06	0.98	1.14
5 (most deprived)	1.22	1.13	1.31
$\chi^2$	40.05		
p-trend	<0.0001		

Performance status score				
0	1			
1	0.46	0.43		0.49
2	0.16	0.15		0.18
3	0.07	0.06		0.09
4	0.07	0.04		0.10
$\chi^2$	2238.93			
p-trend	<0.0001			
Comorbidity score				
0	1.00			
1	0.97	0.90		1.04
2	1.11	1.01		1.22
3+	0.95	0.85		1.06
$\chi^2$	0.07			
p-trend	0.7872			
Stage				
I	1			
II	0.52	0.48		0.56
III	0.07	0.06		0.07
IV	0.01	0.01		0.01
$\chi^2$	13250.56			
p-trend	<0.0001			
Topography				
C33	0.20	0.04		1.02
C340	0.25	0.21		0.29
C341	1			
C342	0.94	0.83		1.06
C343	1.22	1.16		1.29
C348	2.91	2.18		3.87
C349	0.30	0.27		0.33
$\chi^2$	108.64			
p-heterogeneity	<0.0001			
Morphology				
Adenocarcinoma	1			
Carcinoid	1.39	1.21		1.59
Large cell	1.14	0.93		1.39
Non small cell	0.14	0.12		0.15
Other specified	2.88	1.68		4.93
Squamous	0.60	0.56		0.63
Unspecified	0.06	0.05		0.07
$\chi^2$	530.52			
p-heterogeneity	<0.0001			

\* adjusted for: travel time to nearest thoracic centre, age, sex, diagnosis year, socioeconomic deprivation, performance status, comorbidity score, stage, topography and morphology

Performance status score				
0	1			
1	1.10	1.04		1.17
2	0.79	0.73		0.85
3	0.24	0.21		0.28
4	0.08	0.06		0.12
$\chi^2$	679.48			
p-trend	<0.0001			
Comorbidity score				
0	1.00			
1	1.12	1.05		1.19
2	1.02	0.94		1.11
3+	1.16	1.05		1.28
$\chi^2$	10.24			
p-trend	0.0014			
Stage				
I	1			
II	0.91	0.83		0.99
III	1.02	0.96		1.09
IV	0.13	0.12		0.15
$\chi^2$	2130.49			
p-trend	<0.0001			
Topography				
C33	2.50	1.15		5.44
C340	0.96	0.86		1.07
C341	1			
C342	0.81	0.71		0.91
C343	0.70	0.66		0.74
C348	0.36	0.23		0.56
C349	0.80	0.75		0.86
$\chi^2$	26.89			
p-heterogeneity	<0.0001			
Morphology				
Adenocarcinoma	1			
Carcinoid	0.32	0.26		0.41
Large cell	0.85	0.67		1.08
Non small cell	1.93	1.80		2.08
Other specified	0.38	0.19		0.74
Squamous	2.05	1.94		2.17
Unspecified	1.13	1.04		1.22
$\chi^2$	163.7			
p-heterogeneity	<0.0001			

\* adjusted for: travel time to nearest radiotherapy centre, age, sex, diagnosis year, socioeconomic deprivation, performance status, comorbidity score, stage, topography and morphology

Supplementary Table B Mortality hazard ratio (95% CI) for surgical resection and radical radiotherapy treatment intensity quintiles from multivariable Cox models with imputed data among (a) all NSCLC patients and (b) treated patients only

a)	Surgical resection			Radical radiotherapy		
	HR	95% CI		HR	95% CI	
<b>Model 1: adjusted for age and sex</b>						
Q1 - lowest	1.12	1.10	1.13	1.08	1.06	1.10
Q2	1.06	1.04	1.08	1.04	1.02	1.06
Q3	1.04	1.02	1.06	1.06	1.05	1.08
Q4	1.02	1.00	1.04	1.02	1.00	1.04
Q5 - highest	1			1		
$\chi^2$	172.43			80.74		
p-trend	<0.0001			<0.0001		
<b>Model 2: fully adjusted*</b>						
Q1 - lowest	1.07	1.04	1.09	1.03	1.01	1.05
Q2	1.02	1.00	1.04	1.05	1.04	1.07
Q3	1.04	1.02	1.06	1.05	1.03	1.07
Q4	1.00	0.98	1.02	1.01	0.99	1.02
Q5 - highest	1			1		
$\chi^2$	46.47			26.53		
p-trend	<0.0001			<0.0001		

  

b)	Surgical resection			Radical radiotherapy		
	HR	95% CI		HR	95% CI	
<b>Model 1: adjusted for age and sex</b>						
Q1 - lowest	0.94	0.88	1.00	0.94	0.87	1.02
Q2	0.90	0.85	0.96	1.02	0.95	1.10
Q3	0.94	0.89	1.00	0.98	0.92	1.04
Q4	0.92	0.87	0.98	0.95	0.89	1.01
Q5 - highest	1			1		
$\chi^2$	6.13			0.40		
p-trend	0.0133			0.5265		
<b>Model 2: fully adjusted*</b>						
Q1 - lowest	0.94	0.88	1.01	0.93	0.85	1.01
Q2	0.91	0.85	0.97	1.05	0.98	1.13
Q3	0.96	0.90	1.02	0.99	0.93	1.06
Q4	0.90	0.85	0.95	0.94	0.89	1.00
Q5 - highest	1			1		
$\chi^2$	3.03			0.13		
p-trend	0.0817			0.7232		

\* age, sex, diagnosis year, socio-economic deprivation, performance status, comorbidity, stage, topography, morphology

\* age, sex, diagnosis year, socio-economic deprivation, performance status, comorbidity, stage, topography, morphology