

Supplemental online content for:

Lung Cancer in Nonelderly Patients: Facility and Patient Characteristics Associated With Not Receiving Treatment

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eTable 1: Characteristics of Patients With Advanced Lung Cancer

eTable 2: Odds of Nontreatment in Patients With Advanced Lung Cancer

eTable 3: Odds of Nontreatment by Age Group

Table 1. Characteristics of Patients With Advanced Lung Cancer

	Total n (%)	Treatment n (%)	No Treatment n (%)	P Value ^a
Total, N	6,446	4,919	1,527	
Age				.06
22–39 y	170 (2.6%)	140 (2.8%)	30 (2%)	
40–65 y	6,276 (97.4%)	4,779 (97.2%)	1,497 (98%)	
Sex				.01
Female	3,719 (57.7%)	2,796 (56.8%)	923 (60.4%)	
Male	2,727 (42.3%)	2,123 (43.2%)	604 (39.6%)	
Race/Ethnicity				.001
Non-Hispanic white	3,338 (51.8%)	2,595 (52.8%)	743 (48.7%)	
Black	1,306 (20.3%)	959 (19.5%)	347 (22.7%)	
Hispanic	952 (14.8%)	699 (14.2%)	253 (16.6%)	
Asian/Pacific Islander	850 (13.2%)	666 (13.5%)	184 (12%)	
Insurance status				<.001
Private	3,638 (56.4%)	2,919 (59.3%)	719 (47.1%)	
Public	693 (10.8%)	476 (9.7%)	217 (14.2%)	
Uninsured	2,115 (32.8%)	1,524 (31%)	591 (38.7%)	
Socioeconomic status				<.001
High	1,146 (17.8%)	961 (19.5%)	185 (12.1%)	
Middle-high	1,411 (21.9%)	1,120 (22.8%)	291 (19.1%)	
Middle	1,401 (21.7%)	1,042 (21.2%)	359 (23.5%)	
Middle-low	1,369 (21.2%)	1,031 (21%)	338 (22.1%)	
Low	1,119 (17.4%)	765 (15.6%)	354 (23.2%)	
Treatment facility				<.001
CCC	270 (4.2%)	249 (5.1%)	21 (1.4%)	
Non-CCC	6,176 (95.8%)	4,670 (94.9%)	1,506 (98.6%)	
Distance to nearest CCC, miles				.94
Median (IQR)	9.4 (8.3)	9.4 (8.3)	9.4 (8.2)	
Mean (SD)	11.2 (7.57)	11.2 (7.60)	11.2 (7.45)	
Histology				.11
NSCLC	5,393 (83.7%)	4,095 (83.2%)	1,298 (85%)	
SCLC	1,053 (16.3%)	824 (16.8%)	229 (15%)	
Diagnosis year				.006
1998	556 (8.6%)	460 (9.4%)	96 (6.3%)	
1999	535 (8.3%)	416 (8.5%)	119 (7.8%)	
2000	522 (8.1%)	394 (8%)	128 (8.4%)	
2001	665 (10.3%)	499 (10.1%)	166 (10.9%)	
2002	657 (10.2%)	497 (10.1%)	160 (10.5%)	
2003	571 (8.9%)	421 (8.6%)	150 (9.8%)	
2004	652 (10.1%)	503 (10.2%)	149 (9.8%)	
2005	569 (8.8%)	423 (8.6%)	146 (9.6%)	
2006	598 (9.3%)	455 (9.2%)	143 (9.4%)	
2007	579 (9%)	421 (8.6%)	158 (10.3%)	
2008	542 (8.4%)	430 (8.7%)	112 (7.3%)	

Abbreviations: CCC, NCI-designated comprehensive care center; IQR, interquartile range; NSCLC, non-small cell lung cancer; SCLC, small cell lung cancer.
^aObtained using chi-square test for categorical variables and t test for continuous variables.

Table 2. Odds of Nontreatment in Patients With Advanced Lung Cancer

	Model 1 ^a		Model 2 ^a		Model 3 ^{a,b}		Model 4 ^{a,b}		Model 5 ^{a,b}	
	OR (95% CI)	P Value	OR (95% CI)	P Value	OR (95% CI)	P Value	OR (95% CI)	P Value	OR (95% CI)	P Value
Race/Ethnicity										
Non-Hispanic white	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
Black	1.26 (1.09–1.46)	.002	1.30 (1.12–1.51)	.001	1.23 (1.06–1.43)	.007	1.13 (0.97–1.32)	.12	0.97 (0.82–1.14)	.68
Hispanic	1.26 (1.07–1.49)	.006	1.35 (1.15–1.60)	<.001	1.28 (1.08–1.52)	.004	1.18 (1.00–1.40)	.05	1.02 (0.86–1.23)	.79
Asian/Pacific Islander	0.96 (0.80–1.16)	.70	1.04 (0.86–1.25)	.70	0.98 (0.81–1.18)	.85	0.95 (0.79–1.15)	.61	0.90 (0.75–1.09)	.29
Age ^c			1.03 (1.02–1.04)	<.001	1.03 (1.02–1.04)	<.001	1.03 (1.02–1.04)	<.001	1.03 (1.02–1.04)	<.001
Sex										
Female	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
Male			0.89 (0.79–1.01)	.07	0.93 (0.83–1.05)	.24	0.95 (0.84–1.07)	.40		
Histology										
NSCLC	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
SCLC			0.85 (0.72–1.00)	.04	0.83 (0.71–0.98)	.03	0.82 (0.69–0.96)	.02		
Distance to nearest CCC ^c			0.96 (0.93–1.00)	.03	0.97 (0.94–1.00)	.08	0.98 (0.95–1.01)	.27		
Treatment facility										
CCC	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
Non-CCC			3.48 (2.21–5.46)	<.001	3.26 (2.07–5.13)	<.001	3.02 (1.92–4.76)	<.001		
Insurance status										
Private	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
Public					1.77 (1.47–2.12)	<.001	1.63 (1.35–1.96)	<.001		
Uninsured					1.42 (1.25–1.62)	<.001	1.29 (1.13–1.48)	<.001		
Socioeconomic status										
High	Ref	—	Ref	—	Ref	—	Ref	—	Ref	—
Middle-high							1.29 (1.05–1.59)	.01		
Middle							1.61 (1.31–1.98)	<.001		
Middle-low							1.49 (1.19–1.83)	<.001		
Low							2.00 (1.59–2.51)	<.001		

Bolded values represent statistically significant findings.

Abbreviations: CCC, NCI-designated comprehensive cancer center; NSCLC, non-small cell lung cancer; OR, odds ratio; SCLC, small cell lung cancer.

^aLogistic regression model. Model 1 represents a univariable model, and models 2 through 5 represent multivariable regression.

^bModels 3, 4, and 5 are also adjusted for year of diagnosis.

^cContinuous variables.

eTable 3. Odds of Nontreatment by Age Group

Age Group	Total Patients, N	Nontreatment n (%)	OR (95% CI)	P Value
22–49 y	1,251	228 (15%)	Ref	<.001
50–59 y	3,415	759 (18%)	1.21 (1.04–1.43)	
60–65 y	3,338	886 (1%)	1.46 (1.24–1.71)	

Abbreviation: OR, odds ratio.