Use of Palliative Radiotherapy among Patients with Metastatic Non-Small-Cell Lung Cancer in Puerto Rico

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Abstract

Purpose: Palliative radiotherapy (RT) represents an important treatment opportunity for improving the quality of life in metastatic non-small cell lung cancer (NSCLC) patients through the management of symptoms within the course of the illness. This study examines the patient and clinical factors associated with palliative RT use among metastatic NSCLC patients in Puerto Rico.

Methods: A retrospective cohort study was performed using secondary data analysis from 2009-2015 from the Puerto Rico Central Cancer Registry–Health Insurance Linkage Database (PRCCR-HILD). A logistic regression model was used to examine factors associated palliative RT.

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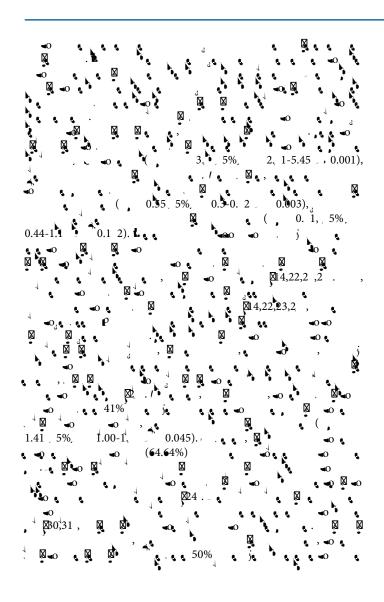
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Characteristic	Unadjusted Model		Adjusted Model	
	Odds Ratio (95% CI)	P Value	Odds Ratio (95% CI)	P Value
Age group (years)				
21-59	1.00	-	1.00	-
60-74	0.76 (0.56, 1.04)	0.093	0.80 (0.55, 1.16)	0.231
75+	0.55 (0.38, 0.82)	0.003	0.71 (0.44, 1.17)	0.182
Sex				
Tæ ^	1.00	-	1.00	
Female	0.95 (0.72, 1.25)	0.732	0.87 (0.64, 1.19)	0.408
Marital Status				
Unmarried	1.00	-	1.00	
Tællå^å	1.15 (0.87, 1.52)	0.318	0.91 (0.66, 1.26)	0.571
Unknown	0.99 (0.42, 2.37)	0.994	0.87 (0.34, 2.23)	0.779
Health Insurance				
T^åi&æiå	1.00	-	1.00	
T^åi&æ¦^	1.58 (1.07, 2.31)	0.020	1.47 (0.92, 2.37)	0.109
T^åi&æ¦^-T^åi&æiå	0.95 (0.65, 1.40)	0.814	1.02 (0.64, 1.63)	0.920
Private	2.04 (1.40, 2.98)	<0.0001	1.50 (0.98, 2.29)	0.061
Density of RT Centers			1.00 (0.00, 2.20)	
Low (0-2)	1.00	-	1.00	-
T^åi { (3-6)	1.08 (0.64, 1.84)	0.767	1.13 (0.62, 2.04)	0.685
Pà*@ (7+)	1.32 (0.75, 2.31)	0.339	1.31 (0.70, 2.48)	0 @ 0.394
Geographic Location				
T^c![1.00	-	1.00	-
Nonmetro	0.57	0.168	0.70 (0.29, 1.66)	0.416
Surgery				
No	1.00	-	1.00	
Yes	0		À	₩Syløs gUo ôQƴ1DS

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