

Supplementary Table 1:
Multivariate Cancer Specific Survival* of Squamous Cell Carcinoma of NSLCLC - Excluding Treatment

Characteristic	HR	HR LCL	HR UCL	HR p-value**	Class- Level p- value**
Year of Diagnosis					
2007	1.00	(Ref)	(Ref)	--	<0.001
2008	0.99	0.86	1.12	0.82	.
2009	0.94	0.82	1.07	0.33	.
2010	0.96	0.84	1.10	0.58	.
2011	0.86	0.75	0.98	0.02	.
2012	1.00	0.88	1.14	0.99	.
2013	0.93	0.82	1.06	0.28	.
2014	0.91	0.80	1.03	0.13	.
2015	0.72	0.61	0.84	<.001	.
Age, years					
66 to 69	1.00	(Ref)	(Ref)	--	<0.001
70 to 74	1.05	0.97	1.14	0.26	.
75 and Older	1.25	1.16	1.36	<.001	.
Sex					
Male	1.00	(Ref)	(Ref)	--	<0.001
Female	0.86	0.81	0.92	<.001	.
Race/Ethnicity					
White NH	1.00	(Ref)	(Ref)	--	0.11
Black NH	0.87	0.78	0.98	0.02	.
Hispanic	0.97	0.84	1.13	0.73	.
Other	1.04	0.91	1.19	0.59	.
Marital Status					
Married or Partnered	1.00	(Ref)	(Ref)	--	0.003
Non-Married	1.13	1.06	1.21	<0.001	.
Patient Residence [†]					
Urban Commute	1.00	(Ref)	(Ref)	--	0.12
Non-Urban Commute	1.08	0.98	1.18	0.12	.
Census Tract Poverty [‡]					
Less than median level	1.00	(Ref)	(Ref)	--	0.83

Greater than or equal to median level	1.01	0.94	1.08	0.83	.
Census Tract Education					
Less than median level	1.00	(Ref)	(Ref)	--	0.78
Greater than or equal to median level	1.01	0.94	1.09	0.79	.
Charlson Comorbidity					
0	1.00	(Ref)	(Ref)	--	0.14
1	0.99	0.91	1.07	0.76	.
2 or more	1.06	0.98	1.15	0.16	.
AJCC [§] Stage Group 6 th Ed					
Stage I	1.00	(Ref)	(Ref)	--	<0.001
Stage II	1.83	1.57	2.13	<.001	.
Stage III	3.34	3.01	3.72	<.001	.
Stage IV	6.15	5.55	6.83	<.001	.
MRI Brain Imaging					
No MRI Brain	1.00	(Ref)	(Ref)	--	<0.001
MRI Brain	1.18	1.11	1.25	<.001	.
Initial Imaging					
CT Alone	1.00	(Ref)	(Ref)	--	<0.001
PET [¶]	0.53	0.49	0.56	<.001	.
Treatment Facility					
Other Facility	1.00	(Ref)	(Ref)	--	0.009
NCI Center [#]	0.80	0.68	0.93	0.005	.
Teaching Hospital	0.93	0.87	1.000	0.05	.

*Cancer specific survival was estimated using Cox proportional hazard model.

** p-values were calculated using a two-sided Chi Square method.

†Urban/rural classification is based on US Department of Agriculture's Rural Urban Commuting Area Codes

‡Area-level poverty defined at the census tract and for those with few observations, area level is at the zip code.

§ American Joint Committee on Cancer

|| Computerized tomography imaging

¶ Positron emission tomography imaging

#National Cancer Institute