Supplemental Online Content

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eTable 1. Test of proportional hazards assumption using Schoenfield residual test on multivariable overall survival model

eTable 2. Test of proportional hazards assumption using Schoenfield residual test on Fine and Gray model

eTable 3. Test of proportional odds assumption using Brant test in R (package brant; function brant); proportional odds assumption violated when P < 0.05

eFigure. Consort diagram for HNC study cohort as abstracted from SEER 18 database from 2007 through 2016

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1: Test of proportional hazards assumption using Schoenfield residual test on multivariable overall survival model

	Chisquare	df	P
Race	13.11	3	0.004
Age	24.97	1	<0.001
Marital	18.71	1	<0.001
Insurance	5.74	2	0.057
Region	2.96	3	0.398
Cancer site	29.99	4	<0.001
Stage	88.33	3	<0.001
Sex	0.63	1	0.428
SES	1.07	3	0.784
Chemotherapy	407.47	1	<0.001
Radiation	808.32	1	<0.001
Surgery	118.32	1	<0.001
GLOBAL	1439.81	24	<0.001

eTable 2: Test of proportional hazards assumption using Schoenfield residual test on Fine and Gray model

	Chisquare	df	P
Age	76.14	1	<0.001
Sex	0.01	1	0.937
Race	31.67	3	<0.001
Marital	43.24	1	<0.001
Insurance	4.69	2	0.096
Region	6.54	3	0.088
SES	9.45	3	0.024
Stage	82.49	3	<0.001
Cancer site	37.89	4	<0.001
Chemotherapy	406.38	1	<0.001
Radiation	761.49	1	<0.001
Surgery	145.44	1	<0.001
GLOBAL	1452.74	24	<0.001

eTable3. Test of proportional odds assumption using Brant test in R (package brant; function brant); proportional odds assumption violated when $P < 0.05$

	Chisquare	df	probability
Omnibus	33.20	14	0.003
Age	**6.57**	**1**	**0.01**
Race			
NH Black	Reference		
Hispanic	0.82	1	0.364
Asian	3.17	1	0.075
American Indian	3.42	1	0.064
Sex			
Female	Reference		
Male	2.71	1	0.1
Insurance			
Private insurance	Reference		
Medicaid	2.34	1	0.126
Uninsured	2.87	1	0.09
Region			
South	Reference		
West	**5.77**	**1**	**0.016**
Northeast	2.01	1	0.156
Midwest	0.50	1	0.481
Medium	0.76	1	0.384
SES			
High	Reference		
Low	0.87	1	0.35
Very low	0.48	1	0.49
Marital status			
Married	Reference		
Unmarried	0.41	1	0.523

eFigure 1. Consort diagram for HNC study cohort as abstracted from SEER 18 database from 2007 through 2016

Data extracted from SEER for all cancers from 2000-2016:

HNC Patients: N=147,810

Years between 2007 and 2016: N=92,524

Ethnic minorities: N=24,607

Final sample size (including only patients with non-missing data): N=21,966