

SUPPLEMENTARY TABLE S4. COX PROPORTIONAL HAZARD MODELING FOR KNOWN COVARIATES

Factors	Hazard ratio [CI]					
	SEER DSS		SEER OS		NCDB OS	
	7th edition	8th edition	7th edition	8th edition	7th edition	8th edition
Stage						
II vs. I	5.51 [3.02–10.1] _c	6.49 [4.47–9.45] _c	2.98 [2.41–3.72] _c	4.46 [3.74–5.32] _c	2.05 [1.89–2.22] _c	3.71 [3.47–3.97] _c
III vs. I	4.03 [2.44–6.64]	32.5 [20.9–50.5]	2.44 [1.99–2.98]	15.5 [11.8–20.3]	2.51 [2.32–2.69]	7.71 [6.87–8.63]
IV vs. I	47.4 [31.1–72.4] _c	82.8 [56.7–120.9] _c	10.5 [8.79–12.7] _c	27.5 [21.9–34.5] _c	5.67 [5.24–6.14] _c	16.2 [14.7–18.8] _c
Sex						
Male vs. female	2.04 [1.63–2.57]	2.35 [1.87–2.95]	1.83 [1.61–2.08]	1.96 [1.73–2.23] _c	1.89 [1.81–1.99]	1.95 [1.86–2.05] _c
Race						
White vs. black	1.01 [0.55–1.85]	1.05 [0.57–1.93]	0.67 [0.53–0.84]	0.41 [0.29–0.56]	0.74 [0.68–0.81] _c	0.75 [0.67–0.82] _c
Insurance						
Insured vs. not insured	0.77 [0.41–1.45]	0.67 [0.36–1.93]	1.07 [0.72–1.62]	1.18 [0.66–2.09]	1.45 [1.21–1.74] _c	1.35 [1.12–1.62] _c
Margin status ^a						
Positive vs. negative	— _c	—	— _c	—	1.37 [1.28–1.47] _c	1.31 [1.22–1.41] _c
Multifocality						
Multifocal vs. unifocal	0.72 [0.57–0.91] _c	0.88 [0.71–1.12]	0.81 [0.71–0.92] _c	0.88 [0.71–1.13]	0.92 [0.88–0.97] _c	0.98 [0.92–1.03] _c
RAI						
Yes vs. no	0.66 [0.53–0.87] _c	0.82 [0.64–1.05]	0.53 [0.46–0.61] _c	0.91 [0.79–1.02]	0.52 [0.49–0.55] _c	0.55 [0.52–0.58] _c
ETE						
Yes vs. no	3.26 [2.38–4.48] _c	2.59 [1.85–3.63] _c	1.52 [1.29–1.79] _c	1.13 [0.95–1.34] _c	1.08 [1.01–1.16] _c	0.95 [0.88–1.02] _c
Extent of surgery						
Total vs. partial	0.42 [0.29–0.61]	0.61 [0.42–0.86]	0.74 [0.62–0.88]	0.81 [0.67–0.98]	0.79 [0.74–0.4]	0.83 [0.77–0.88]
Years of diagnosis	0.95 [0.88–1.03]	0.96 [0.89–1.04]	0.99 [0.95–1.04]	0.99 [0.95–1.04]	1.01 [0.99–1.02]	1.01 [0.99–1.04]
Statistical model performance						
AIC ^b	5314	5243	20,224	20,064	153,664	152,972

^aMargin status not collected in SEER.

^bSmaller AIC indicates better fit to the data.

^cIndicates statistical significance, with a *p*-value of ≤ 0.05 .