

Supplemental Table 3: Multivariate Cox proportional hazards models incorporating clinical covariates in initial model determination

Variable	Overall Survival ^a			Disease Specific Survival ^a			Locoregional Control ^a		
	Hazard Ratio	95% CI	P-value	Hazard Ratio	95% CI	P-value	Hazard Ratio	95% CI	P-value
HPV Status									
HPV-	<i>Ref</i>			<i>Ref</i>			<i>Ref</i>		
HPV+	0.23	0.094-0.56	0.002	0.22	0.072-0.67	0.008	0.26	0.082-0.82	0.013
Age^b									
70-80	<i>Ref</i>								
≥80	2.88	1.01-8.18	0.038						

^a; Parameters entered in multivariable model included age, race, gender, alcohol use, smoking history, CCI, and ECOG

^b; Age did not meet criteria for inclusion in multivariate DSS or LRC model