

Supplementary table 1: Univariate and Multivariate analysis of prognostic factors affecting

OS

Factor	Univariate		Multivariate	
	HR(95%CI)	P value	HR(95%CI)	P value
Age				
<68	Reference	.000	Reference	.000
≥68	1.721	.000	1.711	.000
Gender				
Male	Reference	.003	Reference	.000
Female	0.934		0.894	
Ethnicity				
White	Reference	.000	Reference	.000
Black	1.049	.150	1.074	.070
Other	0.712	.000	0.798	.000
Marital Status				
Single	Reference	.000	Reference	.000
Married	0.852	.000	0.834	.000
Widowed	1.386	.000	1.086	.079
Divorced	0.964	.432	0.970	.551
Site of cancer				
proximal	Reference	.000	Reference	.014
middle	0.782	.000	0.890	.001

distal	0.812	.000	0.927	.051
overlapping	1.067	.190	0.972	.617
Grade				
I	Reference	.000	Reference	.000
II	1.298	.000	1.056	.376
III/IV	1.492	.000	1.224	.001
Histology				
Adenocarcinoma	Reference	.013	Reference	.918
Mucinous	1.030	.626	0.985	.828
adenocarcinoma				
Signet ring cell	0.927	.005	0.988	.711
carcinoma				
T stage				
T1	Reference	.000	Reference	.000
T2	1.265	.000	1.216	.000
T3	1.855	.000	1.597	.000
T4	2.432	.000	2.170	.000
N stage				
N0	Reference	.000	Reference	.000
N1	1.458	.000	1.213	.000
N2	1.659	.000	1.602	.000
N3	2.068	.000	2.179	.000

Tumor size		1.032	.000	1.014	.000
Surgery					
Partial	or	Reference	.000	Reference	.000
subtotal or hemi-					
Near-total or total		1.089	.035	1.002	.959
With removal of a		1.139	.000	1.171	.000
portion	of				
esophagus					
With the resection		1.138	.004	1.065	.202
of other organs					
Surgery, NOS		0.912	.548	1.033	.854
Not surgery		3.299	.000	2.421	.000
LNH					
None		Reference	.000	Reference	.000
1-3		0.519	.000	1.147	.112
≥4		0.386	.000	0.659	.000
Unknown		0.408	.000	0.785	.116
number					

HR: Hazard ratio; LNH: Lymph Node Harvest;