

**Supplementary Table 1. Clinical pathologic characteristics of the original cohort of 119 ESCC patients and the independent validation cohort of 60 ESCC patients.**

	Original cohort (n=119)	Independent cohort (n=60)
<b>Age, median(IQR)</b>	59.0 (13.0)	60.0 (13.0)
<b>Gender, male</b>	98 (82.4%)	48 (80.0%)
<b>Tobacco use, yes</b>	80 (67.2%)	34 (56.7%)
<b>Alcohol use, yes</b>	74 (62.2%)	32 (53.3%)
<b>Tumor location</b>		
<b>Upper</b>	14 (11.8%)	6 (10.0%)
<b>Middle</b>	96 (58.0%)	28 (46.7%)
<b>Lower</b>	36 (30.3%)	26 (43.3%)
<b>Tumor grade</b>		
<b>Well</b>	23 (19.3%)	9 (15.0%)
<b>Moderately</b>	64 (53.8%)	34 (56.7%)
<b>Poorly</b>	32 (26.9%)	17 (28.3%)
<b>T stage</b>		
<b>T1</b>	8 (6.7%)	4 (6.7%)
<b>T2</b>	20 (16.8%)	7 (11.7%)
<b>T3</b>	62 (52.1%)	48 (80.0%)
<b>T4</b>	29 (24.4%)	1 (1.7%)
<b>N stage</b>		
<b>No</b>	54 (45.4%)	29 (48.3%)
<b>N1</b>	42 (35.3%)	20 (33.3%)
<b>N2</b>	13 (10.9%)	9 (15.0%)
<b>N3</b>	10 (8.4%)	2 (3.3%)
<b>TNM stage</b>		
<b>I</b>	6 (5.0%)	4 (6.7%)
<b>II</b>	46 (39.5%)	30 (50.0%)
<b>III</b>	66 (55.5%)	26 (43.3%)
<b>Tumor clearance</b>		
<b>R0</b>	119 (100%)	60 (100%)
<b>R1/R2</b>	0	0
<b>Post-operative complication</b>		
<b>Pneumonia</b>	12 (10.1%)	3 (5.0%)
<b>Anastomotic leak</b>	11 (9.2%)	1 (1.7%)
<b>Arrhythmia</b>	27(22.7%)	16 (26.7%)
<b>Adjuvant therapy</b>		
<b>Yes</b>	69 (58.0%)	35 (58.3%)
<b>No</b>	24 (20.2%)	21 (35.0%)
<b>Unknown</b>	26 (21.8%)	4 (6.7%)
<b>Median survival (mo)</b>	32.25	39.50

IQR: interquartile range. Data are n (%).