

**Supplementary Table 6.** Multivariate analyses (Cox proportional hazard model) of the clinical parameters for predicting the prognosis of patients with non-T4a and stage IVa HNSC (n=577)

Variable	Overall survival		Disease-free survival	
	OR (95% CI)	P-value	OR (95% CI)	P-value
Age ≥60 yr	1.532 (1.120–2.094)	0.008*	1.262 (0.926–1.721)	0.140
Primary site		0.001*		0.003*
Oral cavity	1.000			
Oropharynx	0.534 (0.356–0.803)	0.003*	0.480 (0.322–0.717)	<0.001*
Larynx	0.812 (0.477–1.382)	0.443	0.801 (0.477–1.346)	0.403
Hypopharynx	1.108 (0.734–1.672)	0.627	0.767 (0.501–1.175)	0.223
Surgery group	0.716 (0.509–1.006)	0.054	0.538 (0.382–0.759)	<0.001*

HNSC, head and neck squamous cell carcinoma; OR, odds ratio; CI, confidence interval; Surgery group, patients treated primarily by surgery with curative intent with/without (neo)adjuvant treatment.

\*Statistically significant ( $P < 0.05$ ).