

Supplementary Table 3. Prognostic significance of clinicopathological characteristics.

A. Disease-free survival

		N	Failed	%Censored	Range		Median	95% CI		% Event-free at T= 100	p-Value
					Min	Max		LL	UL		
All patients		289	135	53.3	0.4	184.6	94.5	81.0	106.3	46.4%	.
Age, years	<63	139	61	56.1	1.5	184.6	118.7	94.4	142.0	56.2%	<u>0.0145</u>
	≥63	150	74	50.7	0.4	143.2	81.0	59.3	95.0	33.8%	
Alcohol abuse	Mild/moderate/heavy	218	104	52.3	1.5	184.6	94.5	69.1	106.2	44.2%	0.1703
	No	71	31	56.3	0.4	150.4	106.3	81.0	142.0	52.8%	
Family history	No	203	101	50.2	0.4	184.6	91.8	59.0	106.2	43.3%	0.1651
	Yes	86	34	60.5	1.5	163.7	106.5	83.8	143.2	53.1%	
Histological grade	1	107	49	54.2	1.5	147.8	95.0	82.8	106.5	46.0%	0.0738
	2	121	57	52.9	1.7	184.6	80.5	47.5	118.7	43.7%	
	3	41	24	41.5	0.4	150.4	22.2	10.1	150.4	43.9%	
	Missing data	20	5	75.0	8.0	127.4	118.1	83.8	127.4	73.5%	
Localization	Glottic-supraglottic	260	118	54.6	0.4	184.6	95.0	81.0	106.5	47.0%	<u>0.0279</u>
	Subglottic-transglottic	29	17	41.4	2.9	118.1	35.4	8.7	118.1	41.3%	
Neck dissection	No	205	97	52.7	0.4	163.7	95.0	82.8	106.3	46.8%	0.2948
	Yes	84	38	54.8	1.5	184.6	118.6	24.8	150.4	51.1%	
N Stage	N0	243	108	55.6	0.4	184.6	97.9	83.8	106.3	47.8%	<u>0.0193</u>
	N1	21	14	33.3	2.9	150.4	18.3	8.7	150.4	39.5%	
	N2+	24	13	45.8	1.9	124.9	24.8	8.7	.	40.0%	
Previous tracheostomy	No	222	107	51.8	0.4	184.6	94.4	80.5	106.3	45.0%	0.6397
	Yes	39	17	56.4	2.2	149.5	100.3	35.4	.	57.2%	
Postoperative radiation	No	196	91	53.6	0.4	184.6	94.4	80.5	106.5	45.5%	0.4785
	Yes	93	44	52.7	1.9	163.7	100.3	27.6	141.8	50.9%	
Gender	Female	12	2	83.3	17.5	127.4	127.4	21.1	127.4	90.0%	0.0732
	Male	277	133	52.0	0.4	184.6	94.4	74.1	106.2	44.9%	
Smoking status	1-30 pack-years	72	31	56.9	1.9	163.7	99.5	80.5	118.1	47.7%	0.4396
	>30 pack-years	158	76	51.9	0.4	184.6	94.5	70.8	118.6	47.4%	
	Never/ex-smokers	31	17	45.2	2.2	142.0	74.1	22.2	127.4	43.9%	
Surgery	Other type of surgery	47	29	38.3	1.7	163.7	55.9	18.8	97.9	16.6%	<u>0.0114</u>
	Total laryngectomy	242	106	56.2	0.4	184.6	106.2	87.3	118.6	51.6%	
T Stage	I-II	64	31	51.6	1.5	147.8	95.0	71.6	106.3	41.5%	0.9898
	III-IV	225	104	53.8	0.4	184.6	94.5	74.1	118.6	49.2%	

B. Overall survival

					Range		95% CI		% Event-free at T= 100		p-Value
		N	Failed	%Censored	Min	Max	Median	LL	UL		
All patients		289	117	59.5	1.5	184.6	106.3	94.4	124.8	55.4%	.
Age, years	<63	139	51	63.3	1.5	184.6	139.1	118.1	180.7	63.8%	0.0055
	≥63	150	66	56.0	1.7	172.7	87.3	65.8	106.3	44.7%	
Alcohol abuse	Mild/moderate/heavy	218	89	59.2	1.5	184.6	106.2	83.8	130.4	53.5%	0.1980
	No	71	28	60.6	9.0	181.2	118.6	88.6	153.3	60.6%	
Family history	No	203	88	56.7	3.3	184.6	100.3	82.8	118.7	51.1%	0.1895
	Yes	86	29	66.3	1.5	180.1	118.6	106.5	180.1	65.6%	
Histological grade	1	107	44	58.9	1.5	172.7	106.3	87.3	130.4	56.5%	0.1629
	2	121	48	60.3	1.7	184.6	106.3	70.8	142.0	54.3%	
	3	41	21	48.8	5.8	180.7	88.6	20.7	180.7	47.6%	
	Missing data	20	4	80.0	8.0	127.9	118.1	83.8	.	73.5%	
Localization	Glottic-supraglottic	260	101	61.2	1.5	184.6	117.5	94.5	139.1	56.6%	0.0104
	Subglottic-transglottic	29	16	44.8	7.4	118.1	82.8	19.1	118.1	44.8%	
Neck dissection	No	205	84	59.0	1.7	180.1	106.3	94.5	139.1	57.0%	0.2141
	Yes	84	33	60.7	1.5	184.6	118.6	29.3	.	53.2%	
N Stage	N0	243	92	62.1	1.5	184.6	106.5	95.0	139.1	58.2%	0.0021
	N1	21	13	38.1	7.8	180.7	24.1	19.1	180.7	43.1%	
	N2+	24	12	50.0	5.8	124.9	88.6	13.0	.	25.2%	
Previous tracheostomy	No	222	92	58.6	1.5	184.6	106.3	88.6	130.4	55.5%	0.6209
	Yes	39	17	56.4	3.3	149.5	100.3	35.4	.	56.5%	
Postoperative radiation	No	196	77	60.7	1.5	184.6	106.5	94.4	130.4	55.5%	0.1049
	Yes	93	40	57.0	5.8	180.7	106.3	35.4	180.1	58.0%	
Gender	Female	12	1	91.7	17.5	127.9	.	24.1	.	88.9%	0.0721
	Male	277	116	58.1	1.5	184.6	106.3	88.6	118.7	54.2%	
Smoking status	1-30 pack-years	72	27	62.5	5.8	180.1	118.1	100.3	141.8	68.2%	0.6798
	>30 pack-years	158	68	57.0	1.5	184.6	106.2	87.3	143.2	51.7%	
	Never/ex-smokers	31	14	54.8	3.3	181.2	84.8	32.9	153.3	47.4%	
Surgery	Other type of surgery	47	20	57.4	1.7	180.1	124.8	65.8	180.1	55.7%	0.6711
	Total laryngectomy	242	97	59.9	1.5	184.6	106.3	94.4	118.7	55.5%	
T Stage	I-II	64	22	65.6	1.5	172.7	124.8	106.2	.	67.8%	0.0534
	III-IV	225	95	57.8	3.3	184.6	106.2	83.8	130.4	52.0%	