

Title	Influence of tongue perception alterations on oral and maxillofacial functions of patients with malignant/premalignant tongue tumors
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TABLE 1 Nineteen patients with malignant/premalignant tongue tumors

Patient number	Gender	Age	Histopathology (Tumor stage)	Pre-chem	Pre-rad	Tongue resection	Lingual nerve nontumor side	Lingual nerve tumor side	Nerve invasion	Post-chem/rad	Group
	1 Male	34	4Leukoplakia	Non	Non	Partial (with oral floor)	Preservation	Preservation	-	Non	Closure
2	2Female	54	4Leukoplakia	Non	Non	Partial	Preservation	Preservation	-	Non	Closure
3	3Male	68	8SCC (T1)	Non	Non	Partial (with oral floor)	Preservation	Preservation	-	Non	Closure
2	4Female	74	4SCC (T1)	Non	Non	Partial	Preservation	Preservation	-	Non	Closure
Ę	5Female	6	6SCC (T1)	Non	Non	Partial (with oral floor)	Preservation	Preservation	+	Non	Closure
6	6 Male	8	0SCC (T2)	Non	Non	Partial (with oral floor)	Preservation	Preservation	+	Non	Closure
7	7 Male	6	1 SCC (T1)	Non	Non	Partial (with oral floor)	Preservation	Preservation	-	Non	Closure
8	8Female	6	9SCC (T1)	Non	Non	Partial (with oral floor)	Preservation	Preservation	-	Non	Closure
ę	9 Male	8	9SCC (T1)	Non	Non	Partial	Preservation	Preservation	-	Non	Closure
10	Male	7	1 SCC (T2)	Non	Non	Partial (with oral floor)	Preservation	Preservation	+	Non	Closure
11	1 Female	5	6SCC (T2)	Non	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
12	2Male	54	4SCC (T1)	Received	Non	Partial (with oral floor)	Preservation	Preservation	-	Non	Flap
13	3Female	4	5SCC (T2)	Received	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
14	4Female	5	5SCC (T2)	Non	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
15	5Female	7	1ACC (T1)	Non	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
16	6 Female	70	6SCC (T2)	Non	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
17	7 Male	64	4 SCC (T3)	Non	Non	Hemi (with oral floor)	Preservation	*Resection	-	Non	Flap
18	8 Female	5	6SCC (T2)	Received	Non	Partial (with oral floor)	Preservation	*Resection	-	Non	Flap
19	9 Male	3	0SCC (T3)	Received	Non	Partial (with oral floor)	Preservation	*Resection	+	Non	Flap

Pre-chem:Preoperative chemotherapy, Pre-rad:Preoperative radiation

Post-chem/rad: Postoperative chemotherapy or radiation

SCC:Squamous cell carcinoma, ACC:Adenoid cystic carcinoma

Partial: Partial tongue resection, Hemi: Hemi-glossectomy

Non: Not receive

Closure: The closure group, Flap: The flap group

Nerve invasion: Histopathological, -:Without invasion, +: With invasion

 TABLE 2 Preoperative tongue perception scores of the patients

Patient number	Histopathology	Tongue side	Tor A	Tongue site A M D		
	1 Leukoplakia	Nontumor Tumor	5 5	5 5	5 5	
	2Leukoplakia	Nontumor Tumor	5 5	5 5	5 5	
	3T1	Nontumor Tumor	6 6	-	4 4	
	4T1	Nontumor Tumor	5 5	5 5	1 4	
	5T1	Nontumor Tumor	6 5	3 3	5 3	
	7T1	Nontumor Tumor	5 3	3 1	0 0	
	8T1	Nontumor Tumor	5 6	4 5	5 5	
	9T1	Nontumor Tumor	5 5	5 3	3 3	
	12T1	Nontumor Tumor	5 5	4 0	2 0	
	15T1	Nontumor Tumor	1 0	2 0	1 0	
	6T2	Nontumor Tumor	0 0	0 0	0 0	
	10T2	Nontumor Tumor	2 5	2 0	0 0	
	11T2	Nontumor Tumor	3 3	-	4 4	
	13T2	Nontumor Tumor	6 5	5 5	5 5	
	14T2	Nontumor Tumor	6 5	5 5	5 5	
	16T2	Nontumor Tumor	0 0	0 0	0 0	
	18T2	Nontumor Tumor	4 4	4 4	4 4	
	17T3	Nontumor Tumor	0 0	0 0	0 0	
	19T3	Nontumor Tumor	5 5	5 4	5 5	
Tongue site; A	A: Apex, M: Margin, D: Do	sum				

0: No perception
- : No evaluation

TABLE 3 the Association between changes in tongue perception on the nontumor side and chewing function at 12 months postoperatively compared with preoperative in each patient in the flap group

Patient number	Tongue perception	Chewing strength	Matching	Patient number	Tongue perception	Bite strength	Matching
11	++	-	unmatch	11	++	-	unmatch
12	++	++	match	12	++	_	unmatch
13	+	++	match	13	+	-	unmatch
14	++	++	match	14	++	++	match
15	++	-	unmatch	15	++	++	match
16	++	++	match	16	++	++	match
17	++	+	match	17	++	++	match
18	++	++	match	18	++	++	match
19	+	-	unmatch	19	+	++	match
++: Improvement +: Recovered to preoperative level –: Absence of improvement							