

## Supplementary Material – Statistical Analysis for the article entitled:

CLIC1 plasma concentration is associated with lymph node metastases in oral squamous cell carcinoma

### Authors

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## 1. CLIC1 plasmatic concentration: HNSCC patients vs. control group

Table 1.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in HNSCC patients and control group.

1. Column statistics - Normality test		
	HNSCC patients	Control group
Number of values	20	8
Minimum	1810	2436
25% Percentile	4542	4580
Median	8097	9427
75% Percentile	15018	13770
Maximum	27467	14531
Mean	10439	9004
Std. Deviation	7447	4563
Std. Error of Mean	1665	1613
Lower 95% CI of mean	6954	5190
Upper 95% CI of mean	13924	12819
KS normality test		
KS distance	0,1764	0,1343
P value	0,1035	0,2
Passed normality test (alpha=0.05)?	Yes	Yes

Table 1.2. Unpaired t-test for comparison of CLIC1 plasmatic concentration in HNSCC patients and control group.

2. Unpaired t-test	
Table Analyzed	X HNSCC vs, control
Column B	Control group
vs.	vs,
Column A	HNSCC patients
Unpaired t test	
P value	0,6178
t, df	t=0,5050 df=26
How big is the difference?	
Mean ± SEM of column A	10439 ± 1665 N=20
Mean ± SEM of column B	9004 ± 1613 N=8

Difference between means	-1435 ± 2841
95% confidence interval	-7275 to 4405
R square	0,009713
F test to compare variances	
F, DFn, Dfd	2,664, 19, 7
P value	0,1892
P value summary	ns
Significantly different? (P < 0.05)	No

## 2. CLIC1 plasmatic concentration: tumor site (oral, larynx) and control group

Table 2.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in oral cancer patients, laryngeal cancer patients and control group.

1. Column statistics - Normality test			
	Oral	Larynx	Control group
Number of values	13	7	8
Minimum	1810	2155	2436
25% Percentile	4090	5247	4580
Median	7648	8546	9427
75% Percentile	18089	14720	13770
Maximum	27467	15544	14531
Mean	11345	8758	9004
Std. Deviation	8556	4912	4563
Std. Error of Mean	2373	1857	1613
Lower 95% CI of mean	6174	4215	5190
Upper 95% CI of mean	16515	13301	12819
KS normality test			
KS distance	0,2056	0,1942	0,1343
P value	0,1417	0,2	0,2
Passed normality test (alpha=0.05)?	Yes	Yes	Yes

Table 2.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in oral cancer patients, laryngeal cancer patients and control group.

2. One-way ANOVA	
Table Analyzed	X Tumor site
ANOVA summary	
F	0,4514
P value	0,6418
P value summary	ns
Are differences among means statistically significant? (P < 0.05)	No
R square	0,03485
Brown-Forsythe test	
F (DFn, DFd)	1,358 (2, 25)
P value	0,2755
P value summary	ns
Significantly different standard deviations? (P < 0.05)	No
Bartlett's test	
Bartlett's statistic (corrected)	4,018
P value	0,1341

P value summary	ns				
Significantly different standard deviations? (P < 0.05)	No				
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	42210000	2	21110000	F (2, 25) = 0,4514	P = 0,6418
Residual (within columns)	1169000000	25	46760000		
Total	1211000000	27			
Data summary					
Number of treatments (columns)	3				
Number of values (total)	28				

Table 2.3. Tukey's multiple comparisons test for comparison of CLIC1 plasmatic concentration in oral cancer patients, laryngeal cancer patients and control group.

3. Multiple comparisons									
Number of families	1								
Number of comparisons per family	3								
Alpha	0,05								
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary	Adjusted P Value				
Oral vs. Larynx	2587	-5398 to 10572	No	ns	0,7023				
Oral vs. Control group	2340	-5313 to 9994	No	ns	0,7295				
Larynx vs. Control group	-246,6	-9062 to 8569	No	ns	0,9973				
Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q		DF
Oral vs. Larynx	11345	8758	2587	3206	13	7		1,141	25
Oral vs. Control group	11345	9004	2340	3073	13	8		1,077	25
Larynx vs. Control group	8758	9004	-246,6	3539	7	8		0,09855	25

### 3. CLIC1 plasmatic concentration depending on T stage

Table 3.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration depending on T stage in HNSCC patients.

1. Column statistics - Normality test					
	T1	T2	T3	T4	Control group
Number of values	3	6	7	4	8
Minimum	3872	3048	1810	5247	2436
25% Percentile	3872	5326	2155	5531	4580
Median	7112	9658	7648	7464	9427
75% Percentile	15113	16925	24610	13177	13770
Maximum	15113	21065	27467	14720	14531
Mean	8699	10843	11819	8724	9004
Std. Deviation	5786	6537	10680	4225	4563
Std. Error of Mean	3341	2669	4037	2113	1613
Lower 95% CI of mean	-5675	3983	1941	2000	5190
Upper 95% CI of mean	23073	17703	21696	15447	12819
D'Agostino & Pearson omnibus normality test					
KS normality test	N too small	0,1991	0,2234	N too small	0,1343
KS distance					
P value		0,2	0,2		0,2
Passed normality test (alpha=0.05)?	Yes	Yes	Yes	Yes	Yes

Table 3.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration depending on T stage in HNSCC patients.

2. One-way ANOVA	
Table Analyzed	X T
Kruskal-Wallis test	
P value	0,9749
Exact or approximate P value?	Approximate
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	5
Kruskal-Wallis statistic	0,4857
Data summary	
Number of treatments (columns)	5
Number of values (total)	28

Table 3.3. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration depending on T stage in HNSCC patients.

3. Multiple comparisons					
Number of families	1				
Number of comparisons per family	10				
Alpha	0,05				
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value	
T1 vs. T2	-2,833	No	ns	> 0,9999	
T1 vs. T3	-0,7619	No	ns	> 0,9999	
T1 vs. T4	-0,08333	No	ns	> 0,9999	
T1 vs. Control group	-0,08333	No	ns	> 0,9999	
T2 vs. T3	2,071	No	ns	> 0,9999	
T2 vs. T4	2,75	No	ns	> 0,9999	
T2 vs. Control group	2,75	No	ns	> 0,9999	
T3 vs. T4	0,6786	No	ns	> 0,9999	
T3 vs. Control group	0,6786	No	ns	> 0,9999	
T4 vs. Control group	0	No	ns	> 0,9999	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
T1 vs. T2	13,67	16,5	-2,833	3	6
T1 vs. T3	13,67	14,43	-0,7619	3	7
T1 vs. T4	13,67	13,75	-0,08333	3	4
T1 vs. Control group	13,67	13,75	-0,08333	3	8
T2 vs. T3	16,5	14,43	2,071	6	7
T2 vs. T4	16,5	13,75	2,75	6	4
T2 vs. Control group	16,5	13,75	2,75	6	8
T3 vs. T4	14,43	13,75	0,6786	7	4
T3 vs. Control group	14,43	13,75	0,6786	7	8
T4 vs. Control group	13,75	13,75	0	4	8

#### 4. CLIC1 plasmatic concentration depending on N stage

Table 4.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration depending on N stage in HNSCC patients.

1. Column statistics - Normality test					
	N0	N1	N2	N3	Control group
Number of values	11	1	7	1	8
Minimum	1810	8546	2155	27467	2436
25% Percentile	3872	8546	9005	27467	4580
Median	6086	8546	14734	27467	9427
75% Percentile	7648	8546	21065	27467	13770
Maximum	15544	8546	24610	27467	14531
Mean	6488	8546	14486	27467	9004
Std. Deviation	3813	0	7398	0	4563
Std. Error of Mean	1150	0	2796	0	1613
Lower 95% CI of mean	3926	0	7644	0	5190
Upper 95% CI of mean	9050	0	21328	0	12819
KS normality test					
KS distance	0,1987	N too small	0,2269	N too small	0,1343
P value	0,2		0,2		0,2
Passed normality test (alpha=0.05)?	Yes		Yes		Yes

Table 4.2. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration depending on N stage in HNSCC patients.

2. Multiple comparisons					
Number of families	1				
Number of comparisons per family	3				
Alpha	0,05				
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value	
N0 vs. N2	-8,961	Yes	*	0,0463	
N0 vs. Control group	-2,943	No	ns	> 0,9999	
N2 vs. Control group	6,018	No	ns	0,3855	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
0 vs. 2	10,18	19,14	-8,961	11	7
0 vs. Control group	10,18	13,13	-2,943	11	8
2 vs. Control group	19,14	13,13	6,018	7	8

#### 5. CLIC1 plasmatic concentration in HNSCC: N0 vs N1-3

Table 5.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration of N0 HNSCC patients, N1-3 HNSCC patients and control group.

1. Column statistics - Normality test			
	N0	N1-3	Control group
Number of values	11	9	8
Minimum	1810	2155	2436
25% Percentile	3872	8775	4580
Median	6086	14734	9427
75% Percentile	7648	22837	13770
Maximum	15544	27467	14531

Mean	6488	15268	9004
Std. Deviation	3813	8114	4563
Std. Error of Mean	1150	2705	1613
Lower 95% CI of mean	3926	9032	5190
Upper 95% CI of mean	9050	21505	12819
KS normality test			
KS distance	0,1987	0,1743	0,1343
P value	0,2	0,2	0,2
Passed normality test (alpha=0.05)?	Yes	Yes	Yes

Table 5.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration of N0 HNSCC patients, N1-3 HNSCC patients and control group.

2. One-way ANOVA					
Table Analyzed	X N0 vs N1-3				
ANOVA summary					
F	6,013				
P value	0,0074				
P value summary	**				
Are differences among means statistically significant? (P < 0.05)	Yes				
R square	0,3248				
Brown-Forsythe test					
F (DFn, DFd)	2,267 (2, 25)				
P value	0,1245				
P value summary	ns				
Significantly different standard deviations? (P < 0.05)	No				
Bartlett's test					
Bartlett's statistic (corrected)	5,383				
P value	0,0678				
P value summary	ns				
Significantly different standard deviations? (P < 0.05)	No				
ANOVA table	SS	DF	MS	F (DFn, DFd) F (2, 25) =	P value P =
Treatment (between columns)	393400000	2	196700000	6,013	0,0074
Residual (within columns)	817800000	25	32710000		
Total	1211000000	27			
Data summary					
Number of treatments (columns)	3				
Number of values (total)	28				

Table 5.3. Tukey's multiple comparisons test for comparison of CLIC1 plasmatic concentration of N0 HNSCC patients, N1-3 HNSCC patients and control group.

3. One-way ANOVA - Multiple comparisons							
Number of families	1						
Number of comparisons per family	3						
Alpha	0,05						
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary	Adjusted P Value		
N0 vs. N1-3	-8780	-15184 to -2377	Yes	**	0,006		
N0 vs. Control group	-2516	-9136 to 4103	No	ns	0,6164		
N1-3 vs. Control group	6264	-658,3 to 13186	No	ns	0,0815		
Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q DF

N0 vs. N1-3	6488	15268	-8780	2571	11	9	4,83	25
N0 vs. Control group	6488	9004	-2516	2658	11	8	1,339	25
N1-3 vs. Control group	15268	9004	6264	2779	9	8	3,188	25

## 6. CLIC1 plasmatic concentration in oral cancer: N0 vs N2-3

Table 6.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in N0 oral cancer patients and N2-3 oral cancer patients.

1. Column statistics - Normality test			
	N0	N2-3	Control group
Number of values	8	5	8
Minimum	1810	14734	2436
25% Percentile	3254	14924	4580
Median	5344	21065	9427
75% Percentile	7514	26039	13770
Maximum	10311	27467	14531
Mean	5561	20598	9004
Std. Deviation	2798	5656	4563
Std. Error of Mean	989,3	2530	1613
Lower 95% CI of mean	3222	13575	5190
Upper 95% CI of mean	7900	27621	12819
KS normality test			
KS distance	0,173	0,2339	0,1343
P value	0,2	0,2	0,2
Passed normality test (alpha=0.05)?	Yes	Yes	Yes

Table 6.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in N0 oral cancer patients and N2-3 oral cancer patients.

2. One-way ANOVA						
Table Analyzed	X N0 vs N2-3 oral					
ANOVA summary						
F	19,8					
P value	< 0,0001					
P value summary	****					
Are differences among means statistically significant? (P < 0.05)	Yes					
R square	0,6875					
Brown-Forsythe test						
F (DFn, DFd)	1,837 (2, 18)					
P value	0,188					
P value summary	ns					
Significantly different standard deviations? (P < 0.05)	No					
Bartlett's test						
Bartlett's statistic (corrected)	2,553					
P value	0,279					
Significantly different standard deviations? (P < 0.05)	No					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	722800000	2	361400000	F (2, 18) = 19,80	P < 0,0001	
Residual (within columns)	328500000	18	18250000			
Total	1051000000	20				

Data summary	
Number of treatments (columns)	3
Number of values (total)	21

6.3. Tukey's multiple comparisons test for comparison of CLIC1 plasmatic concentration in N0 oral cancer patients and N2-3 oral cancer patients.

3. One-way ANOVA - Multiple comparisons									
Number of families	1								
Number of comparisons per family	3								
Alpha	0,05								
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary	Adjusted P Value				
N0 vs. N2-3	-15037	-21252 to -8821	Yes	****	< 0,0001				
N0 vs. Control group	-3443	-8895 to 2008	No	ns	0,2663				
N2-3 vs. Control group	11594	5378 to 17809	Yes	***	0,0004				
Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q	DF	
N0 vs. N2-3	5561	20598	-15037	2435		8	5	8,731	18
N0 vs. Control group	5561	9004	-3443	2136		8	8	2,28	18
N2-3 vs. Control group	20598	9004	11594	2435		5	8	6,732	18

## 7. CLIC1 plasmatic concentration in laryngeal cancer: N0 vs N1-3

Table 7.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in N0 laryngeal cancer patients and N1-3 laryngeal cancer patients.

1. Cols statistics - Normality test			
	N0	N1-3	Control group
Number of values	3	4	8
Minimum	5247	2155	2436
25% Percentile	5247	3753	4580
Median	6086	8775	9427
75% Percentile	15544	13291	13770
Maximum	15544	14720	14531
Mean	8959	8606	9004
Std. Deviation	5718	5137	4563
Std. Error of Mean	3302	2568	1613
Lower 95% CI of mean	-5246	432,6	5190
Upper 95% CI of mean	23164	16780	12819
D'Agostino & Pearson omnibus normality test			
K2	N too small	N too small	1,15
P value			0,5626
Passed normality test (alpha=0.05)?			Yes
P value summary			ns
Shapiro-Wilk normality test			
W	N too small	N too small	0,938
P value			0,5918
Passed normality test (alpha=0.05)?			Yes
P value summary			ns
KS normality test			
KS distance	N too small	N too small	0,1343
P value			0,2

Passed normality test (alpha=0.05)?	Yes
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Table 7.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in N0 laryngeal cancer patients and N1-3 laryngeal cancer patients.

2. One-way ANOVA	
Table Analyzed	N0 vs, N1-3 larynx
Kruskal-Wallis test	
P value	0,9861
Exact or approximate P value?	Exact
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	3
Kruskal-Wallis statistic	0,02917
Data summary	
Number of treatments (columns)	3
Number of values (total)	15

Table 7.3. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration in N0 laryngeal cancer patients and N1-3 laryngeal cancer patients.

3. One-way ANOVA - Multiple comparisons					
Number of families	1				
Number of comparisons per family	3				
Alpha	0,05				
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value	
N0 vs. N1-3	0,5833	No	ns	> 0,9999	
N0 vs. Control group	0,3333	No	ns	> 0,9999	
N1-3 vs. Control group	-0,25	No	ns	> 0,9999	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
N0 vs. N1-3	8,333	7,75	0,5833	3	4
N0 vs. Control group	8,333	8	0,3333	3	8
N1-3 vs. Control group	7,75	8	-0,25	4	8

## 8. CLIC1 plasmatic concentration in HNSCC depending on gender

Table 8.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on gender.

1. Column statistics - Normality test		
	Males	Females
Number of values	14	6
Minimum	1810	2155
25% Percentile	5012	2825
Median	7829	11191
75% Percentile	14819	25324
Maximum	21065	27467
Mean	9223	13277
Std. Deviation	5496	10881
Std. Error of Mean	1469	4442
Lower 95% CI of mean	6049	1858
Upper 95% CI of mean	12396	24696

KS normality test		
KS distance	0,1587	0,1975
P value	0,2	0,2
Passed normality test (alpha=0.05)?	Yes	Yes

Table 8.2. Unpaired t-test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on gender.

2. Unpaider t-test	
Table Analyzed	X Gender
Column B	Females
vs.	vs,
Column A	Males
Unpaired t test	
P value	0,2761
P value summary	ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,123 df=18
How big is the difference?	
Mean ± SEM of column A	9223 ± 1469 N=14
Mean ± SEM of column B	13277 ± 4442 N=6
Difference between means	4054 ± 3609
95% confidence interval	-3528 to 11636
R square	0,06551
F test to compare variances	
F,DFn, Dfd	3,919, 5, 13
P value	0,0437
P value summary	*
Significantly different? (P < 0.05)	Yes

## 9. CLIC1 plasmatic concentration in oral cancer depending on gender

Table 9.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in oral cancer patients depending on gender.

1. Column statistics - Normality test		
	Males	Females
Number of values	8	5
Minimum	1810	3048
25% Percentile	3981	5348
Median	6747	14734
75% Percentile	13913	26039
Maximum	21065	27467
Mean	8747	15501
Std. Deviation	6487	10530
Std. Error of Mean	2294	4709
Lower 95% CI of mean	3323	2427
Upper 95% CI of mean	14170	28576
KS normality test		
KS distance	0,2245	0,2065

P value	0,2	0,2
Passed normality test (alpha=0.05)?	Yes	Yes

Table 9.2. Unpaired t-test for comparison of CLIC1 plasmatic concentration in oral cancer patients depending on gender.

2. Unpaired t-test	
Table Analyzed	Gender larynx
Column B	Females
vs.	vs,
Column A	Males
Unpaired t test	
P value	0,1759
P value summary	ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,446 df=11
How big is the difference?	
Mean ± SEM of column A	8747 ± 2294 N=8
Mean ± SEM of column B	15501 ± 4709 N=5
Difference between means	6755 ± 4670
95% confidence interval	-3523 to 17033
R square	0,1598
F test to compare variances	
F,DFn, Dfd	2,635, 4, 7
P value	0,2492
P value summary	ns
Significantly different? (P < 0.05)	No

## 10. CLIC1 plasmatic concentration in HNSCC depending on age

Table 10.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on age.

1. Column statistics - Normality test				
	41-50	51-60	61-70	71-80
Number of values	2	5	10	3
Minimum	6382	2155	1810	3872
25% Percentile	6382	4121	3992	3872
Median	7693	7648	7829	14720
75% Percentile	9005	21290	14936	24610
Maximum	9005	27467	21065	24610
Mean	7693	11694	9172	14401
Std. Deviation	1854	9991	6233	10373
Std. Error of Mean	1311	4468	1971	5989
Lower 95% CI of mean	-8969	-712	4713	-11366
Upper 95% CI of mean	24355	24100	13631	40168
KS normality test	N too small	0,2572	0,1401	N too small
KS distance	N too small	0,2572	0,1401	N too small
P value		0,2	0,2	
Passed normality test (alpha=0.05)?		Yes	Yes	

Table 10.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on age.

2. One-way ANOVA	
Table Analyzed	X Age
Kruskal-Wallis test	
P value	0,9349
Exact or approximate P value?	Exact
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	4
Kruskal-Wallis statistic	0,4781
Data summary	
Number of treatments (columns)	4
Number of values (total)	20

Table 10.3. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on age.

3. One-way ANOVA - Multiple comparisons					
Number of families	1				
Number of comparisons per family	6				
Alpha	0,05				
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value	
41-50 vs. 51-60	-1	No	ns	> 0,9999	
41-50 vs. 61-70	0,2	No	ns	> 0,9999	
41-50 vs. 71-80	-2,333	No	ns	> 0,9999	
51-60 vs. 61-70	1,2	No	ns	> 0,9999	
51-60 vs. 71-80	-1,333	No	ns	> 0,9999	
61-70 vs. 71-80	-2,533	No	ns	> 0,9999	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
41-50 vs. 51-60	10	11	-1	2	5
41-50 vs. 61-70	10	9,8	0,2	2	10
41-50 vs. 71-80	10	12,33	-2,333	2	3
51-60 vs. 61-70	11	9,8	1,2	5	10
51-60 vs. 71-80	11	12,33	-1,333	5	3
61-70 vs. 71-80	9,8	12,33	-2,533	10	3

## 11. CLIC1 plasmatic concentration in HNSCC depending on grading

Table 11.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on grading.

1. Column statistics - Normality test				
	G1	G2	G3	Control group
Number of values	13	6	1	8
Minimum	1810	2155	10311	1999
25% Percentile	5815	3443	10311	3343
Median	9005	5196	10311	7281
75% Percentile	18089	9220	10311	11966
Maximum	27467	15544	10311	12853

Mean	12261	6513	10311	7382
Std. Deviation	8191	4753	0	4184
Std. Error of Mean	2272	1940	0	1479
Lower 95% CI of mean	7311	1525	0	3884
Upper 95% CI of mean	17211	11500	0	10879
KS normality test				
KS distance	0,193	0,2832	N too small	0,1512
P value	0,2	0,1545		0,2
Passed normality test (alpha=0.05)?	Yes	Yes		Yes

Table 11.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on grading.

2. One-way ANOVA					
Table Analyzed	X Grading				
ANOVA summary					
F	2,174				
P value	0,1356				
P value summary	ns				
Are differences among means statistically significant? (P < 0.05)	No				
R square	0,1534				
Brown-Forsythe test					
F (DFn, DFd)	1,798 (2, 24)				
P value	0,1872				
P value summary	ns				
Significantly different standard deviations? (P < 0.05)	No				
Bartlett's test					
Bartlett's statistic (corrected)	4,107				
P value	0,1283				
P value summary	ns				
Significantly different standard deviations? (P < 0.05)	No				
ANOVA table	SS	DF	MS	F (DFn, DFd) F (2, 24) =	P value P =
Treatment (between columns)	188500000	2	94250000	2,174	0,1356
Residual (within columns)	1041000000	24	43360000		
Total	1229000000	26			
Data summary					
Number of treatments (columns)	3				
Number of values (total)	27				

Table 11.3. Tukey's multiple comparisons test for comparison of CLIC1 plasmatic concentration in HNSCC patients depending on grading.

3. One-way ANOVA - Multiple comparisons							
Number of families	1						
Number of comparisons per family	3						
Alpha	0,05						
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary	Adjusted P Value		
G1 vs. G2	5748	-2367 to 13864	No	ns	0,2014		
G1 vs. Control group	4879	-2510 to 12268	No	ns	0,2452		
G2 vs. Control group	-869	-9750 to 8011	No	ns	0,9677		
Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q DF

G1 vs. G2	12261	6513	5748	3250	13	6	2,502	24
G1 vs. Control group	12261	7382	4879	2959	13	8	2,332	24
G2 vs. Control group	6513	7382	-869	3556	6	8	0,3456	24

## 12. CLIC1 plasmatic concentration in oral cancer depending on grading

Table 12.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in oral cancer patients depending on grading.

1. Column statistics - Normality test			
	G1	G2	Control group
Number of values	9	3	8
Minimum	1810	3872	2436
25% Percentile	4715	3872	4580
Median	14734	4307	9427
75% Percentile	22837	7112	13770
Maximum	27467	7112	14531
Mean	13542	5097	9004
Std. Deviation	9425	1759	4563
Std. Error of Mean	3142	1015	1613
Lower 95% CI of mean	6297	728,4	5190
Upper 95% CI of mean	20787	9466	12819
KS normality test			
KS distance	0,1786	N too small	0,1343
P value	0,2		0,2
Passed normality test (alpha=0.05)?	Yes		Yes

Table 12.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in oral cancer patients depending on grading.

2. One-way ANOVA	
Table Analyzed	X Grading oral
Kruskal-Wallis test	
P value	0,2923
Exact or approximate P value?	Exact
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	3
Kruskal-Wallis statistic	2,55
Data summary	
Number of treatments (columns)	3
Number of values (total)	20

Table 12.3. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration in oral cancer patients depending on grading.

3. One-way ANOVA - Multiple comparisons				
Number of families	1			
Number of comparisons per family	3			
Alpha	0,05			
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value
G1 vs. G2	6,111	No	ns	0,364

G1 vs. Control group	2,569	No	ns	> 0,9999	
G2 vs. Control group	-3,542	No	ns	> 0,9999	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
G1 vs. G2	12,44	6,333	6,111	9	3
G1 vs. Control group	12,44	9,875	2,569	9	8
G2 vs. Control group	6,333	9,875	-3,542	3	8

### 13. CLIC1 plasmatic concentration in laryngeal cancer depending on grading

Table 13.1. Column statistics and normality test for comparison of CLIC1 plasmatic concentration in laryngeal cancer patients depending on grading.

1. Column statistics - Normality test			
	G1	G2	Control group
Number of values	4	3	8
Minimum	5247	2155	1999
25% Percentile	6072	2155	3343
Median	8775	6086	7281
75% Percentile	13291	15544	11966
Maximum	14720	15544	12853
Mean	9379	7928	7382
Std. Deviation	3934	6882	4184
Std. Error of Mean	1967	3973	1479
Lower 95% CI of mean	3119	-9168	3884
Upper 95% CI of mean	15640	25025	10879
D'Agostino & Pearson omnibus normality test			
K2	N too small	N too small	1,286
P value			0,5257
Passed normality test (alpha=0.05)?			Yes
P value summary			ns
Shapiro-Wilk normality test			
W	N too small	N too small	0,9279
P value			0,4972
Passed normality test (alpha=0.05)?			Yes
P value summary			ns
KS normality test			
KS distance	N too small	N too small	0,1512
P value			0,2
Passed normality test (alpha=0.05)?			Yes
P value summary			ns

Table 13.2. One-way ANOVA test for comparison of CLIC1 plasmatic concentration in laryngeal cancer patients depending on grading.

2. One-way ANOVA	
Table Analyzed	X Grading Larynx
Kruskal-Wallis test	
P value	0,7597
Exact or approximate P value?	Exact
P value summary	ns
Do the medians vary signif. (P < 0.05)	No

Number of groups	3
Kruskal-Wallis statistic	0,6229
Data summary	
Number of treatments (columns)	3
Number of values (total)	15

Table 13.3. Dunn's multiple comparisons test for comparison of CLIC1 plasmatic concentration in laryngeal cancer patients depending on grading.

3. One-way ANOVA - Multiple comparisons					
Number of families	1				
Number of comparisons per family	3				
Alpha	0,05				
Dunn's multiple comparisons test	Mean rank diff,	Significant?	Summary	Adjusted P Value	
G1 vs. G2	1,833	No	ns	> 0,9999	
G1 vs. Control group	2,125	No	ns	> 0,9999	
G2 vs. Control group	0,2917	No	ns	> 0,9999	
Test details	Mean rank 1	Mean rank 2	Mean rank diff,	n1	n2
G1 vs. G2	9,5	7,667	1,833	4	3
G1 vs. Control group	9,5	7,375	2,125	4	8
G2 vs. Control group	7,667	7,375	0,2917	3	8

## 14. Correlation of CLIC1 plasmatic concentration in HNSCC patients and overall staging

Table 14.1. Column statistics and normality test for correlation of CLIC1 plasmatic concentration in HNSCC patients and overall staging.

1. Normality test		
	Overall stage	CLIC1 concentration
Std. Deviation	1.089	7447
Std. Error of Mean	0.2436	1665
Lower 95% CI of mean	2.640	6954
Upper 95% CI of mean	3.660	13924
D'Agostino & Pearson omnibus normality test		
K2	3.386	3.717
P value	0.1840	0.1559
Passed normality test (alpha = 0.05)?	Yes	Yes

Table 14.2. Spearman's r test for correlation of CLIC1 plasmatic concentration in HNSCC patients and overall staging.

2. Spearman r	
r	0.3936
95% confidence interval	(-)0.07334 to 0.7190
P value	
P (two-tailed)	0.0860
P value summary	ns
Exact or approximate P value?	Approximate
Significant? (alpha = 0.05)	No
Number of XY pairs	20

## 15. Correlation of CLIC1 plasmatic concentration in oral cancer patients and overall staging

Table 15.1. Column statistics and normality test for correlation of CLIC1 plasmatic concentration in oral cancer patients and overall staging.

1. Normality test		
Std. Deviation	1.155	8556
Std. Error of Mean	0.3203	2373
Lower 95% CI of mean	2.302	6174
Upper 95% CI of mean	3.698	16515
D'Agostino & Pearson omnibus normality test		
K2	2.084	1.962
P value	0.3527	0.3749
Passed normality test (alpha = 0.05)?	Yes	Yes
P value summary	ns	ns

Table 15.2. Spearman's r test for correlation of CLIC1 plasmatic concentration in oral cancer patients and overall staging.

2. Spearman r	
r	0.6620
95% confidence interval	0.1658 to 0.8926
P value	
P (two-tailed)	0.0167
P value summary	*
Exact or approximate P value?	Exact
Significant? (alpha = 0.05)	Yes
Number of XY pairs	13

## 16. Correlation of CLIC1 plasmatic concentration in HNSCC patients and N staging

Table 16.1. Column statistics and normality test for correlation of CLIC1 plasmatic concentration in HNSCC patients and N staging.

1. Normality test		
	Overall stage	CLIC1 concentration
Std. Deviation	1.089	7447
Std. Error of Mean	0.2436	1665
Lower 95% CI of mean	2.640	6954
Upper 95% CI of mean	3.660	13924
D'Agostino & Pearson omnibus normality test		
K2	3,386	3,717
P value	0,184	0,1559
Passed normality test (alpha = 0.05)?	Yes	Yes

Table 16.2. Spearman's r test test for correlation of CLIC1 plasmatic concentration in HNSCC patients and N staging.

Spearman r	
r	0.6098
95% confidence interval	0.2156 to 0.8331
P value	

P (two-tailed)	0.0043
P value summary	**
Exact or approximate P value?	Approximate
Significant? (alpha = 0.05)	Yes
Number of XY pairs	20

## 17. Correlation of CLIC1 plasmatic concentration in oral cancer patients and N staging

Table 17.1. Column statistics and normality test for correlation of CLIC1 plasmatic concentration in oral cancer patients and N staging.

1. Normality test			
	Overall stage		CLIC1 concentration
Std. Deviation	1.155		8556
Std. Error of Mean	0.3203		2373
Lower 95% CI of mean	2.302		6174
Upper 95% CI of mean	3.698		16515
D'Agostino & Pearson omnibus normality test			
K2		2,084	1,962
P value		0,3527	0,3749
Passed normality test (alpha = 0.05)?	Yes		Yes

Table 17.2. Spearman's r test for correlation of CLIC1 plasmatic concentration in oral cancer patients and N staging.

Spearman r		
r	0.8613	
95% confidence interval	0.5783 to 0.9593	
P value		
P (two-tailed)	0.0003	
P value summary	***	
Exact or approximate P value?	Exact	
Significant? (alpha = 0.05)	Yes	
Number of XY pairs	13	