

Captions

Fig 1 The result from patients with periodontitis and tonsilitis compared to healthy individuals measured according to the Winkel tongue coating index. The median score values were as follows: periodontitis patients 5 (IQR=1;9), patients with tonsillar manifestations 6 (IQR =1;9), healthy 1 (IQR=1;9).

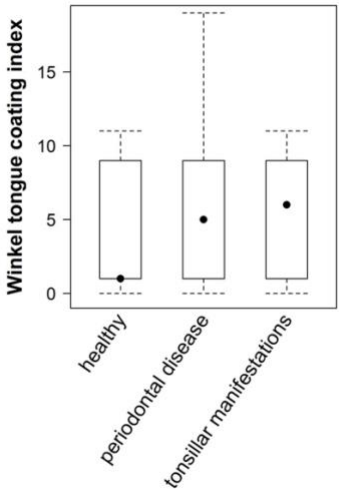
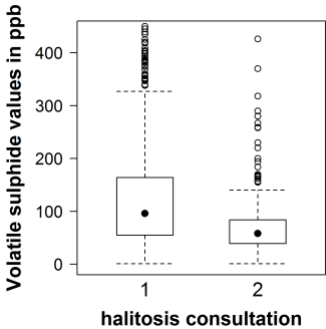


Fig 2 Distribution of the VSC measurements (ppb) in the first and second halitosis consultation. Showing a higher median VSC value for the first: 96 ppb (IQR=55;164), than for the second session: 58 ppb (IQR=39; 83.5) p<0.001.



Tables

Table I Prevalence of concomitant oral conditions in a clinical population; n=1052

Clinical concomitant conditions	N (%)
none	318 (30.23)
gingivitis	242 (21)
periodontitis	191 (17.47)
ectopic sebaceous glands	100 (9.5)
tonsillar manifestation (tonsillitis, chronic caseous tonsillitis, tonsillar stones, hyperplastic tonsils)	76 (5.39)
partially impacted wisdom teeth/pericoronitis	61 (5.3)
atypical morphological features of the tongue (lingua villosa, nigra, geographica)	31 (2.7)
insufficient restorations or caries	30 (2.6)

n= 1052

Table II A comparative analysis of the sum of volatile sulfur compounds (VSC) levels between the different factors of oral health condition, tongue coating, smoking and sex. P values were derived from Kruskal-Wallis or Wilcoxon rank tests.

Variable	VSC median (IQR)		P value
		ppb	
Condition			<0.001
Healthy	86	(52.2; 129.5)	
Periodontal Disease	134	(83; 220.5)	
Tonsillar Manifestation	110	(61; 200)	
Tongue coating			<0.001
<5	77	(48; 124)	
>5	126	(76; 218.2)	
Smoking status			0.28
Non-smoker	98	(56;164)	
Smoker	90	(51.2;163.5)	
Sex			0.002
Male	101	(61;176)	
Female	87	(50;157)	

Ppb: Parts per billion