Halitosis and its influence on the quality of life

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Abstract

Objectives: To describe the patients’ perception of their own breath and verify that halitosis can lead to loss of quality of life of patients with this condition. Methods: A consecutive sample was formed from patients who sought treatment at the Dentistry Screening Service of FSG Centro Universitário, between the months of August 2015 and September 2015, where they answered a questionnaire with objective questions about their perception of breath, and attitudes related to social situations where the breath can be influential. Results: Participated in this survey a total of 102 patients. Of these, 27 (26.5%) were male and 75 (73.5%) were female. When asked about the importance and concern for their breath, 95 (94.1%) participants reported that the smell of breath has great importance in their lives and 96 of these patients (95%) have a high concern for the own breath. Conclusion: On patients’ perceptions, halitosis affects the quality of life of people. However, other studies should be conducted in order to evaluate the influence of halitosis in the quality of life of patients with this condition.

Descriptors: Halitosis; Quality of Life; Health Education.

INTRODUCTION

Halitosis or bad breath, as is popularly known, daily affects social and psychological life of individuals affected by this condition.1,3 Although, the word halitosis is derived from Latin and its meaning is “a pathological change,” halitosis is actually considered a symptom and not a disease.2,4 Halitosis is represented by unpleasant breath or offensive odor as a result of physiological or pathological causes, may be primary (oral) or secondary (systemic).1,5,4

Related to the oral origin causes, we can cite tongue coating, periodontal disease, defective restorations, badly cleaned dentures and even cavities resulting from caries.5,7 Among the systemic origin causes are the ones represented by nasal passages, gastrointestinal and neurological disorders, systemic diseases and medical drugs.5,8

Bad breath has become a matter of concern for much of the population, due to the fact that it is a difficult problem to diagnose due to multifactorial causes and for causing disorder in the social, affective and professional life of the individual reflecting on their emotional health.3,8,10

This study aimed to describe the patients’ perception of their own breath and to verify if halitosis can lead to loss of quality of life of patients with this condition.

MATERIAL AND METHOD

The study is characterized as a cross-sectional observational where we sought to assess whether the loss of quality of life is associated with halitosis. Data were collected between the months of August 2015 and September 2015, with patients who sought treatment at the Dentistry Clinic Screening Service at the FSG Centro Universitário. This study consisted of a convenience sample, according to the college demand. The study was approved by the Research Ethics Committee of Workers’, of Faculty of FSG Centro Universitário (CAAE 45522715.2.0000.5311).

To be eligible, patients must have: age of 18
years or older and at least 12 teeth in the mouth. Patients with abnormal olfactory capacity as anosmia (lack of smell) and hyposmia (reduction on the capacity of smell), or possessing some cognitive impairment, which made it impossible to understand the purpose of research or to provide reliable information were not included on this study.

Interested and qualified patients dated, initialed and signed then, the Consent and Informed form. A consecutive sample was then formed from patients referred to the Screening Service of the Dentistry of the University Center of Serra Gaúcha, where they answered a questionnaire with objective questions about the perception of breath, and related social situations in which the breath can be influential. The questionnaire used for this conducted study was a questionnaire developed by the Brazilian Association for Studies and Research of Mouth Odors (ABPO), used in the research titled "Bad breath and Quality of Life" performed by the same association 11-12.

RESULTS

Participated in the survey a total of 102 patients who sought dental Screening Service at the FSG Centro Universitário. Of these, 27 (26.5%) were male and 75 (73.5%) were female. Most of the interviewed patients, 40 (39.2%) were older than 50 years. Regarding to smoking, 86 (84.3%) patients reported not to be tobacco users. On the oral hygiene habits, tooth brushing frequency was 3 times per day (54.9%), then 2 times a day (29.4%), 4 times or more (11.8%) and only 1 once daily (3.9%). It was also possible to see that most of the patients interviewed, 82 (80.4%) have received some kind of oral hygiene orientation and that more than half of them, 51 (51.5%) applies an average intensity of force during brushing (Table 1).

Table 1- Description of the population studied and characteristic of brushing. Caxias do Sul, 2015.

| Sex | n  | %   |
|-----|----|-----|
| Male | 27 | 26.5 |
| Female | 75 | 73.5 |

| Age (years) | n  | %   |
|-------------|----|-----|
| ≤ 29        | 24 | 23.5 |
| 30-49       | 39 | 37.3 |
| ≥ 50        | 49 | 47.2 |

| Tobacco Smoking Habits | n  | %   |
|------------------------|----|-----|
| Yes                    | 46 | 45.7 |
| No                     | 56 | 54.3 |

| Tooth Brushing Frequency | n  | %   |
|--------------------------|----|-----|
| Once a day               | 4  | 4.8 |
| Twice a day              | 30 | 29.4 |
| Three times a day        | 59 | 57.4 |
| Four or more times a day | 12 | 11.8 |

| Frequency of flossing | n  | %   |
|-----------------------|----|-----|
| No once a day         | 37 | 36.2 |
| Once a day            | 26 | 25.5 |
| Twice a day           | 10 | 9.9  |
| Three or more times a day | 9 | 8.8 |
| Not answer             | 24 | 23.5 |

96 of these patients (95%) have a high concern for the own breath. In asking the question "Has anyone ever told you have bad breath", 60 (59.4%) answered yes and 94 (94%) believe that people with bad breath should be alerted. However, the majority, or 61 (61%) say they only alert someone about their bad breath if they are intimate to the person. More than half of the interviewed patients (52%) reported that they have asked someone how was their breath. Regarding the use of mints, gum and / or mouthwash to fight bad breath odor, they were present in 55 (55%), 45 (45.9%) and 59 (59%) of the responses respectively. Table 3 describes the association between demographic social variables linked to breath in relation to information about the presence of bad breath. By Chi-square test we observed a significant association only in relation to the use of mints.

Table 2- Description of variables associated with breath and behaviors to prevent bad breath. Caxias do Sul, 2015.

| Importance of breath in your life | n  | %   |
|----------------------------------|----|-----|
| Very important                   | 95 | 94.1 |
| Important                        | 6  | 5.9  |
| Little important                 | 0  | 0.0  |

| Concern about breath | n  | %   |
|----------------------|----|-----|
| Low                  | 5  | 5.0  |
| High                 | 96 | 95.0 |

| Has anyone ever said that you have bad breath? | n  | %   |
|-----------------------------------------------|----|-----|
| Yes                                           | 60 | 59.4 |
| No                                            | 41 | 40.6 |

| Should people with unpleasant breath be warned? | n  | %   |
|------------------------------------------------|----|-----|
| Yes                                            | 94 | 94.0 |
| No                                             | 6  | 6.0  |

| Have you ever asked someone about your breath? | n  | %   |
|------------------------------------------------|----|-----|
| Yes                                            | 52 | 52.0 |
| No                                             | 48 | 48.0 |

| If someone has bad breath what do you do?      | n  | %   |
|------------------------------------------------|----|-----|
| Always warns                                   | 11 | 12.0 |
| Warn if it’s someone close                     | 64 | 63.8 |
| Offers a flavored bullet                       | 11 | 11.0 |
| Don’t warn                                     | 17 | 17.0 |

| Habits                                          | n  | %   |
|------------------------------------------------|----|-----|
| Flavored bullet use                            | 55 | 55.0 |
| Chiclet use                                    | 45 | 45.0 |
| Mouthwash use                                  | 53 | 54.0 |

DISCUSSION

Although halitosis is not a disease, this
variation usually causes changes in the behavioral pattern of the individual who possesses it and that these ultimately affect their personal relationships, self-assurance, spontaneity and self-esteem. Emotional health is crucial to all aspects of the individual’s life and halitosis carrier turns out to have their emotional health shaken, limiting the quality of life of people affected by this problem. 

This study was based on the research titled "Bad breath and quality of life" developed in 2008 by the Brazilian Association of Mouth Odors (ABPO), current Brazilian Association of Halitosis (ABHA). The findings of this study, turned out to be very similar to the study cited above. Individuals, when asked about the degree of concern with their breath, pointed out a high degree of concern (95%) and consequently give much importance to it (94%).

Elias and Ferriani, studying the historical aspects of halitosis, described that the bad breath has always been considered a source of unhappiness for individuals, mainly for affecting negatively their communication and the pleasures of social contact. According to the authors, the concern with the quality of the breath itself affects self-esteem, self-confidence and consequently, interpersonal relationships.

In accordance to the findings of ABPO, the vast majority of the interviewed (94%) believe that people with unpleasant breath should be warned, however, 61% of them only warn someone with bad breath if he or she is intimate with that person. Such behavior has been described by Nadanovsky et al. (2007) highlighting the embarrassment felt by those who live with people with halitosis.

Almas et al. described the negative interference of halitosis in the professional life of a group of 372 individuals from Saudi Arabia. Sopapornamorn et al. (2006) reported the fear of patients with halitosis have to talk to others, especially indoors. According to Eli et al., individuals who complain of halitosis even when it does not exist, often present depression, anxiety and feelings of inferiority.

Considering the concept of quality of life advocated by the World Health Organization, according to which, covers the perception of individuals and their physical, emotional and social dimensions, halitosis can be considered as a negative interference factor in the quality life. However, there are no literature studies that assess the relationship between halitosis and quality of life, probably due to the fact that there is no validated instrument that can associate bad breath and its influence in the lives of individuals with this condition.

CONCLUSION

From the results obtained, it can be concluded that bad breath interfere significantly in the lives of patients with this condition, according to the reports of the interviewed. However, other studies should be conducted in order to evaluate the influence of halitosis in the quality of life of patients with this condition. To create a specific instrument to measure the impact of halitosis in the quality of life of individuals is of great importance, given how this condition affects significantly the quality of life of the people affect by it.

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CONFLICTS OF INTERESTS
The authors declare no conflicts of interests.

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