SUMMARY:
Nitrates’ or nitrites’ presence in saliva may lead up to many positive physiological effects. Salivary nitrates possess anti-inflammatory properties on the oral cavity and the digestive tract. Patients with periodontitis have lower concentration of NO2 in saliva than the healthy ones. In studies of the amount of salivary nitrates and nitrites, Streptococcus mutans and Lactobacillus spp., the number of caries in children is significantly reduced in patients with higher levels of salivary nitrates. Nitrites’ concentration in vitro, equal to that in saliva, provokes cytolytic and cytostatic effect on the six major pathogens in the mouth. Studies on Streptococcus mutans show that the amount of nitrite and / or the production of NO are important for the survival of S. mutans in the mouth. The growth of this microbe, a major pathogen of dental caries, is suppressed in the presence of physiological amount of nitrites in saliva.

We are looking for relation between the nitrates and different aspects of oral status.

Key words: nitrates, nitrites, saliva

AIM: To evaluate the presence of nitrates or nitrites in saliva specimens and look for relation between the presence of nitrates or nitrites and different aspects of oral status.

RESULTS AND DISCUSSION:
Groups of people with no trace of nitrites, with little and moderate values, were almost equal(Table 1), while 15% had a significant amount of nitrites. 69.3% of all patient had nitrites in saliva.

Patients with positive tests for nitrites in the oral cavity smoke about 20% more cigarettes per day, have larger number of extractions and more protein and blood in their saliva. In the subjects, negative for nitrites, we register more crowns, higher levels of gingival bleeding index and OHI of Green and Vermillion (Fig. 1).

CONCLUSION:
The presence of nitrites in the mouth is associated with better oral hygiene status, and slighter inflammation of papillas. This confirms to some extent the research on this domain.

We found no differences on the number of caries.

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