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Prevalence and associated risk factors of *Entamoeba gingivalis* and *Trichomonas tenax* among patients with gingivitis in Western Iran**Samin Khataei Khosroshahi¹, Hossein Mahmoudvand² and Nahid Derikvand¹**¹Borujerd, Iran²Lorestan University of Medical Sciences, Iran

Introduction & Aim: Gingivitis is considered as a common and mild form of gum disease that causes irritation, redness and inflammation in gingiva. The aim of this study is designed to evaluate the prevalence of *Entamoeba gingivalis* and *Trichomonas tenax* in patients with gingivitis from Lorestan Province, Iran.

Methods: This cross-sectional survey was carried out on 164 patients with gingivitis from Lorestan Province, Iran during June to December 2018. The samples (saliva and dental plaque) after collection were smeared on a glass slide and in next step using Giemsa stain were stained; finally by means of a light microscope were tested. A prepared questionnaire considering a number of data such as age, gender, use of toothbrush, etc. were provided by each patient.

Results: Among the 164 patients with gingivitis, these parasites were found in 43 (26.2%) patients including 23 (14.2%) patients for *E. gingivalis*, 20 (12.2%) patients for *T. tenax*. The obtained findings demonstrated that although there was no significant relationship between, age, education, residence, smoking and the prevalence of *E. gingivalis* and *T. tenax* among the patients with gingivitis; however there was a significant association between gender as well as mouthwash and teeth brushing with the prevalence of *E. gingivalis* and *T. tenax* ($p < 0.001$).

Conclusion: The results showed the considerable prevalence of *E. gingivalis* and *T. tenax* in patients with gingivitis in Lorestan Province, Iran, exhibited that *E. gingivalis* and *T. tenax* can probably related to the progress of gingivitis. On the other hand, attention to oral health standards, mostly brushing and use of mouthwashes could protect people from expose with these parasites.

Biography

Samin Khataei Khosroshahi has completed her graduation in dentistry from Islamic Azad University and currently working as private dental practitioner.

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