

Effects of Persica mouthwash on oral microbiota of cleft lip and palate patients during fixed orthodontic treatment

Jajam, H.H.^a, Jahanbin, A.^b, Mokhber, N.^c, Gooyandeh, S.^d, Mansourian, A.^e, Beitollahi, J.M.^e

^a Department of Oral Medicine, **Mashhad University of Medical Sciences, Mashhad, Iran**

^b Department of Orthodontics, **Mashhad University of Medical Sciences, Mashhad, Iran**

^c Cleft Lip and Palate Research Center, **Mashhad University of Medical Sciences, Mashhad, Iran**

^d Department of Microbiology, Faculty of Dentistry, **Mashhad University of Medical Sciences, Mashhad, Iran**

^e Dental Research Center, Department of Oral Medicine, Faculty of Dentistry, **Tehran University of Medical Sciences, Tehran, Iran**

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Abstract

The aim of this study was the evaluation of Persica mouthwash on oral microbiota in cleft lip and palate patients before and 6 weeks after fixed orthodontic treatment. In this clinical trial, a convenience sample of seventeen bilateral or unilateral cleft lip and palate patients aged 13-23 years old were selected. Before placing fixed standard edgewise orthodontic appliances, a sample of sublingual saliva was taken from the patients. The patients were asked to use either the Persica mouthwash or not to use any mouthwash for a six week period. Oral microbiota included *Candida albicans*, *Staphylococci*, *E. coli*, *Enterobacteriaceae*, Gram positive bacilli, Viridanse streptococci and Streptococci mutans were assessed before and immediately following the experiment. This study showed that after 6 weeks in 44.4% of cleft lip and palate patients who used Persica mouthwash the level of *Candida albicans* increased compared with 0.0% of patients who were not Persica users (p -value=0.03). Comparison of other microorganism changes after 6 weeks in 2 groups was not statistically significant ($p > 0.05$). Persica mouthwash can not alter oral microbiota in cleft lip and palate patients during a six-week period except for *Candida albicans* which can increase the growth of it. © 2009 Asian Network for Scientific Information.

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