

The 6th International

USERN Congress

and Prize Awarding Festival

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**Universal Scientific Education
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The 6-year Progress of a New Initiation

And

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Kseniia Lepilina

Oral Health Changes In Tobacco Smoking Orthodontic Patients

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A presence of orthodontic appliances in oral cavity affects oral hygiene status directly. Tobacco smoking, in turn, is a significant risk factor for periodontal disease. The adverse effects of tobacco smoking on oral health are well investigated. The aim of this study was to examine the relationship between tobacco smoking, oral hygiene and gingival health in young patients who smoke cigarettes and undergo orthodontic treatment.

The study was carried out among young adults (the age ranged between 20 to 30 years) at the University Dental Center of Kharkiv National Medical University. Twenty individuals with orthodontic appliances and tobacco smoking were examined. Demographic data was collected using a questionnaire; clinical dental examination was done according to protocols of a dental patient examination. The participants were clinically examined to obtain gingival index (GI) and oral hygiene index (OHI-S).

According to obtained data patients with smoking habits showed poor oral hygiene, the level of OHI-S was equal to $1,1 \pm 0,47$. The clinical examination showed symptoms of bleeding and inflammation in gums, definition of GI ($1,095 \pm 0,57$) approved a presence of inflammation in tissues.

The effect of smoking is major risk factor in orthodontic patients. The data gathered in this study show that it is necessary to increase awareness among young adults about harmful effects of smoking on oral health. Further thorough analysis of oral health among cigarette-smokers with orthodontic appliances should be done to improve methods of prevention of periodontal diseases.