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RESEARCH OF THE DENTAL STATUS OF MEDICAL UNIVERSITY STUDENTS

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ABSTRACT

The dental status of 72 students of stomatological faculty, aged 21 to 22 years, was determined. The investigation evaluated the dental formula, the condition of the hard tissues of the teeth, periodontium, gums, and the existence of non-carious lesions. The prevalence and intensity of the carious process was studied using decayed, missing, filled index (DMF), the condition of periodontal tissues was determined by the communal periodontal index - CPI, the hygienic condition of the oral cavity in the development of dental caries and periodontal diseases was assessed using the oral hygiene index - J. Green, J Vermillion. Information of the caries intensity and the level of oral hygiene are presented. The prevalence of caries among students is high. Less than half of investigated students have a good level of oral hygiene, and the hygienic condition of the oral cavity among girls is much better than among boys. In order to prevent dental diseases, it is necessary to improve the hygienic knowledge and skills for their realization among students.

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Introduction. Prevention has the leading role in a modern dentistry. It is common knowledge that the majority of the population suffer from caries in various forms. Often there is a serious destruction of milk teeth in a childhood. In addition, almost 100% of the population suffers from gum disease and bleeding gums that are already perceived by many as quite common. But that leads to inflammation of the periodontium and then to the loss of a tooth. It is obvious, that it is easier to prevent the development of many diseases, than to invest later greater moral and material strength in the elimination of pathology.

Students are special social layer of the country's population, characterized not only by a certain age, but also by a specific way of life. They belong to a high risk group of developing diseases due to the high intellectual load, adaptation to a new living and training conditions. The problems of preserving and strengthening students health, including dental health, require particular attention, therefore, study of the prevalence of adaptation to dental pathology is actual [1,3,8].

Methods for the prevention of basic dental diseases can only be individual and the realization of the full range of preventive interventions is a very complicated and laborious trade [4,9]. Consequently, a perceptible effect cannot be expected in a short period of time, using low-cost materials and in the absence of a sufficient number of qualified specialists in the field of the prevention of dental diseases. However, the most effective is professional oral hygiene, including training of oral hygiene, control of fulfillment, constant motivation of the patient during both the first and subsequent courses of treatment [5,6]. All of the above determines the actuality of that study, used

to explore the students' dental status by valuation of clinical indexes, in order to organize specialized aid and preventive work.

The purpose of the investigation is to study the dental status of the 5th year students of Kharkov National Medical University, by valuation of clinical indexes, in order to organize specialized aid and preventive work.

Research methods: 72 students of the stomatological department, age from 21 to 22 years, were investigated. Among them were 59.7% (43) girls and 40.3% (29) boys. Clinical examination included valuation of the condition of hard tissues of teeth, periodontium and condition of the oral mucosa. The investigation evaluated the dental formula, the condition of the hard tissues of the teeth, periodontium, gums, and the existence of non-cariou lesions. The prevalence and intensity of the carious process was studied using decayed, missing, filled index (DMF), where "D" is a tooth affected by caries, "F" is a tooth that has a filling, "M" is a tooth removed due to caries and its complications. If the tooth has several indicators ("D" and "F"), then register "D", which requires medical intervention. The condition of periodontal tissues was determined by the communal periodontal index - CPI [2,10]. The hygienic condition of the oral cavity has an important role in the development of caries and periodontal diseases, therefore, the level of oral hygiene was determined using the oral hygiene index - J. Green, J Vermillion [7]. The results obtained are processed by parametric statistical processing methods with a confidence coefficient $p < 0,05$.

Results of research. According to research, the most common pathology is caries, which reaches 98%. Among youths was detected a greater percentage of those who needs treatment than among girls (65% vs. 33%). According to DMF index there are 28% of carious teeth, 62.8% of filled teeth, and 7.2% of extracted teeth. The DMF index among girls and boys is generally identical.

During the examination of the condition of periodontal tissues according to the communal periodontal index bleeding of the gums was determined in 57.2% of cases, and dental deposits in 47%. Periodontal pockets were found among 5% of patients.

According to the results of the hygienic index, students were divided into three groups: the 1st group included 47 people with good hygienic condition (oral hygiene index is less than 1.0 point), the 2nd - 18 people with satisfactory hygienic condition (oral hygiene index is 1.0–1.5 points) and in the 3rd - 7 people with unsatisfactory hygienic condition (oral hygiene index is 1.6 points and above) of the oral cavity.

The hygienic index less than 1.0 point was observed among boys in 37.8% of cases, among girls this indicator was not much lower and was 34.9%. The second group of people with a satisfactory index (1.0 -1.5 points) has a slightly different indicator between boys and girls. Among youth the index is 20.6% and among girls is 39.5%. In the last group of people, the oral hygiene index is unsatisfactory among boys in 41.6% of cases and among girls in 25.6%. From all the above it is clear that less than 50% of the examined have a good hygienic condition of the oral cavity. At the same time, the young man has an unsatisfactory hygienic condition of the oral cavity two times more often than girls.

Conclusions. From all the above we can conclude that the prevalence of caries among students of Kharkov National Medical University is high. Less than half of examined have a good level of oral hygiene, and the hygienic condition of the oral cavity in girls is much better than among boys. In order to prevent dental diseases, it is necessary to improve the hygienic knowledge and skills for their realization among students of KNMU. The level of dental aid provided to the examined students is satisfactory.

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