Periodontal Status in Population of Belarus

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SUMMARY

The aim of this study was to evaluate periodontal status of Belarusian population in the different age groups. Epidemiological survey was undertaken among 2007 subjects at 9 age groups (15, 16, 17, 18, 20-24, 35-44, 45-54, 55-64, 65-74) in different regions of Belarus in 2002 – 2003. Periodontal status was assessed using CPITN index. All data were recorded in the special examination form. Statistical analysis was performed using the methods of variation statistics and ANOVA.

The present study indicates that there are high prevalence and severity of periodontal diseases among the population of Belarus. Periodontal status becomes worse with age.

The prevalence of periodontal pockets 4-5 mm (CPITN 3) increased from 0.85 ± 0.84% in 15 yrs old to 21.69 ± 2.06% in 35-44 yrs and 31.18 ± 3.55% in 45-54 yrs. The mean number of sextants per person with shallow pockets (CPITN 3) varied from 0.01 ± 0.01 in 15 yrs to 0.68 ± 0.08 in 35-44 and 1.03 ± 0.11 in 45-54 yrs. In elder age groups shallow periodontal pockets were registered rarely: in 12.18 ± 2.12% in 55-64 yrs and in 11.59 ± 2.13% in 65-74. The mean number of sextants per person was 0.46 ± 0.06 and 0.56 ± 0.11 accordingly. The deep periodontal pockets more than 6 mm (CPITN 4) were registered in 35-44 years in 3.31 ± 1.15% of examined subjects and the mean number of sextants per person was 0.07 ± 0.03. In the age group 65-74 the periodontal pockets (CPITN 3, 4) were founded in 13.04 ± 1.5% of people and the mean number of sextants per person was 0.64 ± 0.07. This investigation demonstrate, that the question of adequate prevention and treatment for periodontal disease has to be addressed and answered rationally according to the dental services available.

Key words: periodontal status, CPITN index, epidemiological surveys, gingival bleeding, dental calculus, periodontal pockets

INTRODUCTION

As the prevalence and severity of periodontal diseases are high among population, prevention and treatment of these diseases are one of the most serious problems of the modern dentistry [13].

Assessment of the disease’s level is possible due to the use of science-based criteria of evaluation. WHO has recommended the CPITN to unify the data of the prevalence and severity of periodontal diseases in different countries [1]. In 1990 WHO published the first data about periodontal condition which had been received by mean of CPITN [3]. The database is renewing constantly. The results of more than 500 researches in different countries of the whole world are obtained now. On the base of multiple epidemiological surveys it is known that the percentage of people with healthy periodontal tissues decreases with age. Gingivitis is founded in 40 – 50 % of population [7,11,12]. The prevalence of generalized periodontitis is varying from 5 to 20 % in different countries [4,5,9,10]. Periodontal diseases present a great medico-social problem in according to the risk of teeth loss and worsen of the life quality [2,8]. It explains the need for periodontal treatment. Epidemiological surveys studying tendency of periodontal diseases and need of periodontal treatment are necessary to plan effective oral health service, its developing and organization forms.

The aim of this study was to evaluate periodontal status of Belarusian population in the different age groups.

MATERIALS AND METHODS

Epidemiological survey was undertaken among 2007 subjects at 9 age groups (15, 16, 17, 18, 20-24, 35-44, 45-54, 55-64, 65-74) in different regions of Belarus in 2002 – 2003 [6,14,15]. The number of examined persons in every age group was 118, 320, 287, 135, 389, 245, 170, 205, 138 accordingly (table 1). Periodontal status was assessed using CPITN. All data were recorded in the special examination form. Statistical analysis was performed using the methods of variation statistics and ANOVA.

RESULTS

The mean number of healthy sextants per person (CPITN 0) decreased from 1.07 ± 0.11 SE in 15 yrs old to 0.19 ± 0.02 in 35-44 yrs old. Gingival bleeding (CPITN 1) was...
The present study indicates that there are high prevalence and severity of periodontal diseases among the population of Belarus. Periodontal status becomes worse with age. Our investigation demonstrates that it is necessary to study periodontal diseases in different age groups. It will help to make monitoring of periodontal diseases more objective and the medical effectiveness of periodontal treatment more effective. The question of adequate prevention and treatment for periodontal disease has to be addressed objectively and the medical effectiveness of periodontal treatment more effective. The question of adequate prevention and treatment for periodontal disease has to be addressed objectively and the medical effectiveness of periodontal treatment more effective. The question of adequate prevention and treatment for periodontal disease has to be addressed objectively and the medical effectiveness of periodontal treatment more effective. 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