

UDC 616.31:617.3 (571.56)

## THE CLINICAL CHARACTERISTIC OF THE ORTHOPEDIC STATUS OF PERSONS OF THE SENIOR AGE GROUP LIVING IN CONDITIONS OF THE NORTH

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On a basis of conducted researches high level of prevalence of dental diseases including defects of tooth alignments of the persons of Sakha Republic of elderly and senile age is revealed. Thus, the considerable part of dentures, which are in the inspected people's mouth, needs to be changed. In combination with pathological processes of bodies and mouth tissues it defines their requirement for the dental help.

**Keywords:** caries, periodontal diseases, defects of tooth alignments, fixed and non fixed dentures.

**Introduction.** Nowadays there are facts described by science, which characterize the change of age characteristics of population. So, according to the prognosis of United Nations in 2025, the number of people elder than 60 will increase till more than 1 milliard, which will correspond to one to quarter of population of planet [14,16]. Objective biological ageing process of society is natural and embraces all the countries of the world.

In Russian Federation in 1959 the specific gravity of faces older than 60 was 9,4 (nine point four)%, and in 1970 it was 11,8 %, and at present the specific gravity is more than 25%-30% [2,6,15]. In our country for the last decades there have been a tendency of increase of number of elderly and senile people, who form about 20,8 % of population (32 million people), which, as a whole, need to be worked out and to inculcate more efficient forms of rendering of dental help with calculation of epidemiological and regional peculiarities.

According to the facts of Territorial fond of obligatory medical insurance in Sakha Republic 163786 people of retirement age were registered. It testifies about considerable number indicators whereas 959 people live in the region [1, 4].

It's necessary to note that natural and climatic conditions of North leave a negative sign on the functional condition of bodies and fabrics of mouth [8]. So, the optimization of organization of dental help must be conducted with calculation of regional peculiarities of the Republic.

The process of ageing of the organism promotes breach of bodies and systems functions and expressed breaches of tooth and jaw system. In connection with it learning of peculiarities of clinical stream of pathological processes of bodies and mouth fabrics from elderly and senile

people and to define their requirement in dental help, its organization and finance security is an actual medical and social problem nowadays [14].

**Purpose** of research is to define a requirement and level of rendering of orthopedic help to elderly and senile people in the region, on the basis of complex dental, social and hygienic research.

**Material and methods.** A complex dental inspection of elderly and senile people was conducted in the geriatric centre of Republic Hospital 3 with use of standard form-card, which was worked out in the department of orthopaedic dentistry of Krasnoyarsks state medical University [14]. Definition of dental status was based on the appraisal of indicator of prevalence (%) and on the intensity of caries (according to index KPU). For the requirements analysis in orthopaedic help availability and date of use of defects of tooth alignments on the upper and lower jaws and various kinds of orthopaedic constructions in mouth were considered. Thus, definition of hygienic index by Bernadskaya for the people who use set of false teeth was conducted. 106 people in age from 60 till 93, who live in Sakha Republic, were inspected. Social and hygienic section of research was conducted by conduction of questioning of respondents, which includes treatment of the inspected to their health, questions about nourishment and level of sanitary group.

**Results of research.** A lot of negative factors can influence on the functional condition of tooth alignments, where the most important are demineralising processes of firm teeth fabrics. In connection with it, we conducted the analysis of prevalence and intensity of elderly and senile people's caries. Thus, the frequency of caries among these age groups constituted 100%. According to KPU index intensity was 24,  $74 \pm 0,74$ . In the structure of composing elements of KPU index component «P. O. » - pulled out teeth, which composed  $84,41 \pm 0,37\%$ , the next is a component «F» - filled teeth -  $10,41 \pm 2,13\%$ . Lower level of a component «C» - caries teeth ( $5,18 \pm 2,25\%$ ) is connected with the loss of teeth because of the caries complications and active stream of parodontium diseases of inflaming and destructive and eschanging and dystrophic character. They promote to form defects of tooth alignments of the faxes of old age group.

Analysis of breach of unremittingness of tooth alignments characterizes presence of some peculiarities. According to Cannedy in classes structure the first class appeared on the upper jaw ( $65, 85 \pm 0, 62\%$ ), and defects in the side section of tooth alignments composed  $26, 84 \pm 0, 71\%$ . For all that one-sided trailer defects of tooth alignments were in the level 4,  $87 \pm 0, 93\%$ , and breach frequency of unremittingness of tooth alignments by the first class was  $2,44 \pm 0,95\%$ .  $25, 02 \pm 0,45\%$  of the inspected had a complete absence of teeth on the upper and lower jaws.

The same picture of the rank edentia in the jaws of persons in elderly and senile ages was got by other researchers too [3, 12, 11, 5]. In 62,  $12 \pm 0$ , 90 per cent of the cases the whole edentia was mentioned in the upper jaw and in 37,  $88 \pm 1$ , 48 per cent in lower jaw. But in spite of it, in 1,  $32 \pm 0$ , 57 per cent examined people tooth alignments without breaches of ceaselessness of teeth assidnment had revealed.

For an analysis of orthopedic help degree and its requirement from examined age groups availability of other constructions of dentures in the mouth cavity and their functional condition were explored. So, the general number of faces, having the artificial limbs constituted 89,  $47 \pm 0.25$  per cent. In their midst 58,  $82 \pm 1$ , 05 per cent had fixed artificial limbs, and 41,  $18 \pm 1$ , 50 per cent had non fixed artificial limbs. 82,  $52 \pm 0$ , 64 per cent of the examined had the laminar constructions in the structure of removable dentures in the either of the jaws. And 17,  $48 \pm 3$ , 02 per cent had fixed artificial limbs only in the upper jaw. A frequency of the complete removable constructions constituted 54,  $38 \pm 1$ , 31 per cent, and of the partial removable 45,  $62 \pm 1$ , 56 per cent in the midst of persons, using the fixed artificial limbs. It is important to emphasize that in the structure of persons wearing the complete removable dentures: 45, 16 per cent had the complete fixed artificial limbs in the either of jaws, 48, 38 per cent in the upper jaw and in the lower jaw had 6, 46 per cent.

An evaluation of orthopedic constructions state, available in the mouth cavity of examined had some features. So, an exploitation time didn't exceed 3 years only in 4, 65 per cent of the fixed artificial limbs, hence, their fixation and functional condition dissatisfied the persons of elderly and senile ages. Whereas the using time of 95, 35 per cent of the artificial limbs constituted by 10 and more years, what demanded by readings a making of new orthopedic constructions. In the evaluation of condition of non fixed orthopedic constructions with the using time till 7 years was registered in 46, 42 per cent of examined. But in 53, 58 per cent of the examined people the artificial limbs are serving more than 10 years, where the breaches of the fixation and integrity of construction, which characterized the necessity of re- prosthesis, were revealed.

The researches, held by us, revealed an insufficient degree of service and high requirement in orthopedic dental help for people of elder age group, living under the conditions of high latitude.

**Conclusion.** The analysis of received results testifies about the high prevalence of pathological processes in the dental system and about the high prevalence of people of elderly and senile ages of the region in special dental help. Herein the degree of a doing somebody a help is very low. All it testifies about the necessity to elaborate and infiltrate scientifically valid

recommendations, directional to the optimization of revealing of medical help with the tallies of all the age and region peculiarities.

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У Д К 612. 663. 52:618. 11-008. 6 (571. 56)

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### **The ovarian functional state of the women with tubal-peritoneal infertility**

**Summary:** 100 women of the active reproductive age with tubal-peritoneal infertility and 30 women of the same age without fertile malfunction were examined. Assessment of ovarian