



# ABSTRACTS COLLECTION

**UZH DENT TALKS**  
**Integrative Conference of Relevant  
Challenges at Dental and Medical Science  
and Practice**



Digital Dentistry  
Society



**Uzhhorod**  
**04/09/2021**



UZHGOROD NATIONAL UNIVERSITY  
HARRAN UNIVERSITY, FACULTY OF  
DENTISTRY  
DIGITAL DENTISTRY SOCIETY

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Challenges at Dental and Medical  
Science and Practice**

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**Uzhhorod**  
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“UzhDentTalks: Relevant Challenges of Dental and Medical Science and Practice” represents an integrative conference for dental and medical specialists regarding currently important scientific and clinical problems and achievements within Digital Dentistry, Prosthetic Dentistry, Forensic Dentistry, Genetic Disorders in Dentistry, Dental Implants and General Dental Practice.

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Abstracts collection devoted to scientific and practical achievements in the field of dentistry and presented in the forms of original researches, descriptive researches and clinical case presentations by authors from Turkey, Indonesia, Egypt, Croatia, Ukraine and Brazil.

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## THE INFLUENCE OF EXOGENOUS FACTORS ON THE PATIENT'S DENTAL STATUS AND THE RISK OF PERIOPATHOLOGY

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**Abstract Type:** Original research

**Introduction.** Signs of manifestations and progression of periodontal disease or peri-implant tissues directly depend on a significant number of factors and determinants, which include individual characteristics of the subject, social, behavioral, systemic and genetic factors, changes in the level of dental status or microbiological profile of the patient.

**Objective.** To analyze the literature, which highlights the results of similar studies and process the results of questionnaires, followed by statistical analysis of the results to determine the prognostic significance of each risk factor for inflammatory diseases and periodontal and peri-implant tissues.

**Materials and Methods.** Literary sources of domestic and foreign scientists in the amount of - 23 (9 - Cyrillic, 14 - Latin), which highlights the selected topics and analysis of the author's questionnaire, developed in the amount of - 68 with subsequent statistical processing of the results, using method of prognostic coefficients, the so-called "sequential analysis of Wald", which is based on the use of a consistent criterion of probability relations using a simplified Bayesian formula.

**Results.** The condition of periodontal tissues or peri-implant tissues is primarily a consequence of a certain level of oral hygiene and only secondarily - demographic characteristics and living conditions,

which in turn gives weight and characterizes the direct impact of hygiene skills as a primary preventive link in inflammatory diseases and periodontal tissue conditions, peri-implant tissues.

The development of inflammatory diseases of periodontal tissues and a number of peri-implant conditions is directly and indirectly influenced by many factors, which can be divided into general and local, these factors can be both constant (determinants) and variable (modified) over time, and directly depend from the patient's actions. Local factors include: poor hygiene, bacterial effects of periodontal pathogenic microflora on periodontal tissues, quantitative and qualitative composition of saliva, bone tissue loss, taking into account the patient's age, depth of periodontal pockets, more than 5 mm, bleeding on probing, involvement of furcation, lost teeth, the presence of carious process and its complications, tooth mobility, the presence of traumatic occlusion, orthodontic pathology, overload of periodontal tissues due to changes in the function of chewing and swallowing with tooth loss, bruxism, parafunction of the masticatory muscles, TMJ diseases, mucogingival risk factors: shortened bridle of the lip, shallow dorsum, severe strands in the area of the transitional fold, iatrogenic factors, chronic trauma, poor performance of composite restorations - lack of adequate contact point of the tissue restoration or fixed orthopedic structure), exogenous local influence - chemical, thermal, physical, mechanical factors - allergic reactions to components of orthopedic structures, bad habits (smoking), the nature of respiration, radiation.

Common factors include: age, sex, ethnicity, heredity, somatic pathology, atherosclerotic vascular changes, neurohumoral regulation of homeostasis, changes in immunological reactivity, endocrine system diseases, diabetes, stress, chronic psycho-emotional stress accompanied by hormonal changes (pregnancy, menopause), lifestyle, daily routine and diet (obesity, hypo- and avitaminosis, alcohol consumption), medication (Ca antagonists, glucocorticoids, cytostatics, immunosuppressants), endogenous



environmental exposure load, intoxication).

**Conclusions.** Depending on the factors associated with the onset and progression of periodontal disease and pathological processes of peri-implant tissues, choose the appropriate study design, and the level of significance results changes will determine the impact of each risk indicator on the inflammatory process. The most critical are the factors that have the most negative impact on periodontal tissues or peri-implant tissues (the highest score on the scale of criteria) and can lead to tooth loss or affect the process of osseointegration of the implant, they can be objectively assessed with the least calculation error.

The most important diagnostic signs for predicting the development of chronic generalized periodontitis or inflammatory processes around peri-implant tissues by degree of significance: the presence of periodontopathogenic microflora → unsatisfactory hygiene → the presence of periodontal pockets, more than 5 mm → radiation → general → traumatic → somatic → somatic → drugs.

Therefore, using the obtained prognostic coefficients, it is possible to determine the risk of generalized inflammatory lesions of periodontal tissues and peri-implant tissues and to prevent their occurrence individually in each patient.

**Keywords:** dental status; periopathology; risk factors