



# 26<sup>th</sup>



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CURRENT TRENDS  
AND ADVANCES IN  
**DENTISTRY**

**ABSTRACT  
BOOK**

FIRST EDITION

\*The second edition with correction of all unintentional, technical errors and deficiencies  
will be available by 09.09.2023



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# ORAL PRESENTATIONS



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which have the ability to degrade extracellular matrix components.

**Aim:** to determine the correlation between the MMPs -1 concentration in the inflammatory gingival bounding tissues at aggressive periodontitis patients, with the clinical parameters.

**MATERIAL AND METHODS:** A total of 28 patients (male and female), mean age <35 were included. Clinically were noted the dental plaque index IDP (Silness-Loe), gingival inflammation index (Loe-Silness), clinical attachment loss (CAL) and Miller-Pelzer index of bone resorption. For setting the concentrations of MMPs-1, quantitative enzyme method was used, with the commercial set: SensoLyte MMPs-1 ELISA Kit Colorimetic, AnaSpec. The protocol for this study was approved by the Ethical committee for medical-dental investigations of the Faculty of Dentistry at the "Ss Cyril and Methodius" University, Skopje.

**RESULTS:** Average values of the IDP were  $\bar{x}=1,07$ , IGI were  $\bar{x}=2,27$ . CAL was  $\bar{x}=6,57$ . The index of the bone resorption was  $\bar{x}=4,53$ . Concentrations of the MMP-1 were  $\bar{x}=658,35$ . We appointed presence of positive correlation between IDP and MMP-1 ( $r=0,76$ ). Important, positive correlation was present between IGI and MMP-1 ( $r=0,68$ ). CAL and alveolar bone resorption were strongly correlated with MMP-1 ( $r=0,75$  and  $r=0,42$ ).

**CONCLUSION:** The microorganisms from the biofilm initiate the production of the collagenase-MMP-1 and their concentrations rise with the development of the inflammatory processes, leading to the loss of attachment and resorption of the alveolar bone.

**Key words:** MMP-1, aggressive periodontal disease, biofilm, inflammation.

#### OP-125

#### THE NEW NORMAL - DENTISTRY AND PATIENTS WITH AUTISM SPECTRUM DISORDER (ASD)

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**INTRODUCTION:** Autism spectrum disorder (ASD) is a developmental disability caused by differences in the brain, characterized by insidious disability in communication, social interaction, and using language and abstract concepts. They require unique management because of their behavioral characteristics, their problems with social communication and interaction.

**AIM:** This article reviews the present literature on the issues dealt with children with autistic spectrum disorder from the dental perspective.

**RESULTS:** Over the last few years there has been a growing interest to cater to the requirements of children with ASD. This study is also an update on the various strategies and recommendations for an easier and successful management of children with ASD in the dental clinic including sensory adaptive dental environment, picture exchange communication system, behavior management techniques as well as pharmacological approaches known so far.

**CONCLUSION:** Specialized knowledge, as well as increased awareness and attention to the specific needs of children with ASD, are paramount while delivering appropriate dental care.

**Keywords:** Autism spectrum disorder (ASD), behavioral approach, oral health care, dental treatment

#### OP-126

#### ORAL SIGNS OF ADVERSE DRUG REACTIONS

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