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**Congress of the BaSS**  
**11-14 May 2023, Skopje**  
**Republic of North Macedonia**

CURRENT TRENDS  
AND ADVANCES IN  
**DENTISTRY**

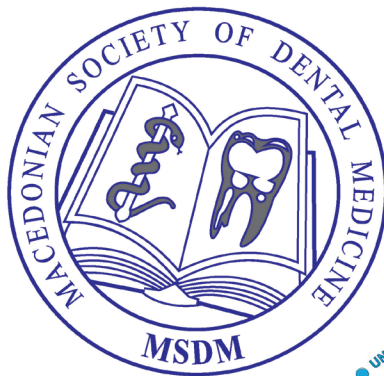
**ABSTRACT**  
**BOOK**

FIRST EDITION

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The background of the cover features a stone wall on the right side and a flag on a tall pole in the upper right. The rest of the background is a faded, light-colored image of a cityscape with buildings and mountains in the distance.

**26<sup>th</sup>** Congress of the BaSS 11-14 May 2023  
Skopje, Republic of North Macedonia

**“CURRENT TRENDS AND ADVANCES IN DENTISTRY”**

ABSTRACTS BOOK

26<sup>th</sup> Congress of Balkan Stomatological Society (BaSS)

11-14 May 2023, Skopje

Republic of North Macedonia

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**PP-31**

**THE INFLUENCE OF FIXED - PROSTHETIC RESTORATIONS ON PERIODONTAL HEALTH**

Ljubica Prosheva<sup>1</sup>, Mihajlo Petrovski<sup>1</sup>, Kiro Papakoca<sup>1</sup>, Sandra Atanasova<sup>1</sup>, Olivera Terzieva Petrovska<sup>1</sup>, Pavle Apostoloski<sup>1</sup>

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**INTRODUCTION:** Definitive fixed prosthetic restorations are cemented in the patient's mouth and should be in a harmonious relationship with the periodontium and must not affecting these tissues negatively.

**AIMS:** of this research was to determine the prevalence of periodontal changes in people with fixed-prosthetic reconstructions.

**MATERIALS AND METHODS:** The research includes total number of 40 subjects in the age range of 20-75 years with fixed prosthetic structures. For each patient during the dental examination, the following parameters were determined: the depth of the periodontal pockets (PD) and the clinical attachment loss (CAL); the degree of involvement of the furcation; the degree of gingival inflammation and the presence of gingival recession. The examination was performed only on the abutment teeth of the prosthetic reconstructions.

**RESULTS:** The average depth of the periodontal pockets among subjects was  $3.98654 \pm 0.25045$ . From data, can be noted that average amount of the clinical loss of attachment was  $5.28592 \pm 0.70523$ . According to this, it is observed that most of the subjects has a moderate form of periodontal disease. Presence of gingival recession is observed in 55% from the subjects. Furcation involvement was observed in 42.5% of the molar abutment teeth.

**CONCLUSION:** Based on the presented data, it can be concluded that there are significant changes on the abutment teeth among patients who have fixed prosthetic constructions.

**Key words:** abutment teeth, furcation involvement, gingival recession, periodontal status, periodontitis

**PP-32**

**BIOLOGICAL CHARACTERISTICS OF MODERN POLYMER MATERIALS IN DENTAL PROSTHODONTICS**

Pavle Apostoloski<sup>1</sup>, Ivona Kovacevska<sup>1</sup>, Mihajlo Petrovski<sup>1</sup>, Daniela Mickovska<sup>1</sup>, Olivera Terzieva-Petrovska<sup>1</sup>

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**INTRODUCTION:** The biological characteristics of modified high-performance polymers are relate to biocompatibility, and therefore the devices produced from these polymers comply with all biological standards and are not cytotoxic.

**AIMS:** of this paper is to evaluate the biological characteristics of modern polymer materials.

**MATERIALS AND METHODS:** In order to realize the main goal of this research, an adequate analysis of the contemporary dental and dental technical literature was done.

**RESULTS:** PEEK (Polyetheretherketone) is a material that does not contain metals, so patients do not have a metallic taste in their mouths, there is no ion exchange and they are not allergenic, and they do not cause allergies in patients who use them. Materials made of PEEK are neutral, so they have low water absorption, and these constructions have color stability.

**CONCLUSION:** The material is biologically stabile and devices made of this material are used, they do not interact with other materials and do not cause side effects. During the production of devices, there is the possibility of achieving a small thickness, and also the constructions are processed and polished easily.

**Keywords:** biopolymers, biological characteristics, biological stability, PEEK.

**PP-33**

**EASY AND PRECISE DENTAL PHOTOGRAPHY**

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